

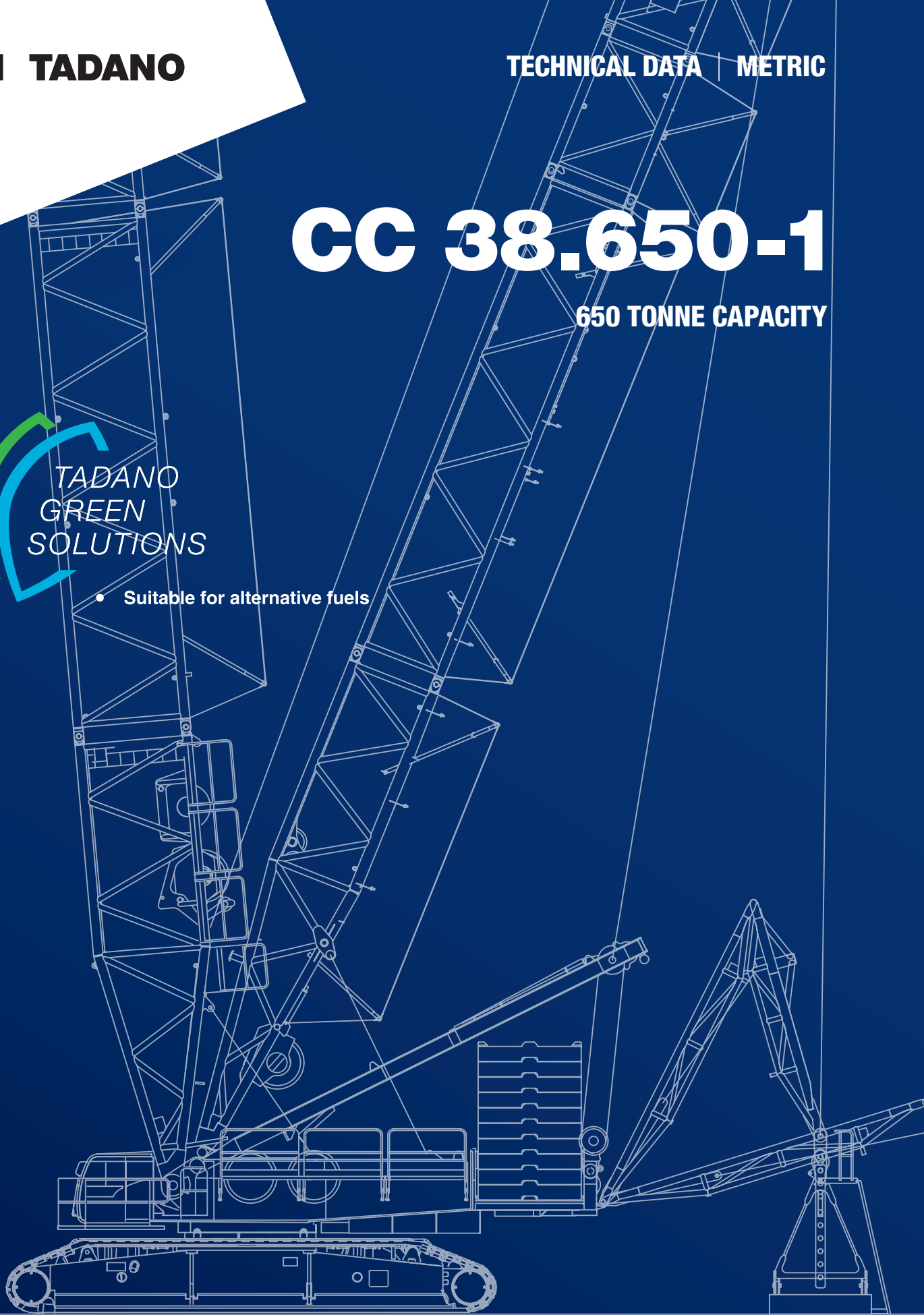
# CC 38.650-1

**650 TONNE CAPACITY**



**TADANO  
GREEN  
SOLUTIONS**

- Suitable for alternative fuels



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# Key

Zeichenerklärung · Légende · Leggenda · Leyenda · Legenda ·  
Условные обозначения

|                                                                                     |                                                                                                                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                  |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Track · Spur · Voie · Cingolo · Orugas · Esteira ·<br>Колея                                                                                                                                                                                                                      |    | Hook block · Unterflasche · Crochet-moufle · Bozzello ·<br>Gancho · Moitão · Крюкоблок                                                                                                                                                                           |
|    | Counterweight + central ballast (ZB) · Gegen-<br>gewicht + Zentralballast (ZB) · Contrepoids + lest<br>central (ZB) · Contrappeso + zavorra centrale (ZB) ·<br>Contrapeso + lastre central (ZB) · Contrapeso +<br>lastro central (ZB) · Противовес + центральный<br>балласт (ZB) |    | Hoist 1 · Hubwerk 1 · Treuil de levage 1 · Agano 1 ·<br>Cabrestante 1 · Guincho 1 · механизм подъема 1                                                                                                                                                           |
|    | Superlift counterweight · Superlift-Gegengewicht ·<br>Contrepoids Superlift · Contrappeso Superlift ·<br>Contrapeso Superlift · Contrapeso do Superlift ·<br>Противовес суперлифт                                                                                                |    | Hoist 2 · Hubwerk 2 · Treuil de levage 2 · Agano 2 ·<br>Cabrestante 2 · Guincho 2 · механизм подъема 2                                                                                                                                                           |
|    | Central ballast · Zentralballast · Lest central ·<br>Zavorra centrale · Lastre central · Lastro central ·<br>Центральный балласт                                                                                                                                                 |    | Hoist 3 · Hubwerk 3 · Treuil de levage 3 · Agano 3 ·<br>Cabrestante 3 · Guincho 3 · механизм подъема 3                                                                                                                                                           |
|    | Superlift radius · Superlift-Radius · Rayon Superlift ·<br>Sbraccio Superlift · Radio de Superlift · Raio do<br>Superlift · Радиус для оборудования суперлифт                                                                                                                    |    | Jib luffing · Wippwerk Hilfsausleger · Variation de volée ·<br>Sollevamento del braccio · Abatimiento de plumín ·<br>Inclinação da lança auxiliar · Изменение вылета<br>стрелы                                                                                   |
|   | Possible load of hook block · Mögliche Traglast<br>Unterflasche · Charge possible de crochet-moufle ·<br>Portata possibile di bozzello · Carga permitida<br>de gancho · Carga possível do moitão · Допустимая<br>нагрузка на крюкоблок                                           |    | Boom derricking · Wippwerk Hauptausleger ·<br>Variation de flèche · Inclinação del braccio ·<br>Descenso de pluma · Inclinação da lança ·<br>Подъем стрелы деррик-краном                                                                                         |
|  | Weight of hook block · Gewicht Unterflasche ·<br>Poids de crochet-moufle · Peso di bozzello ·<br>Peso de gancho · Peso do moitão · Вес крюкоблока                                                                                                                                |    | Boom hoist · Einziehwerk · Relevage de flèche ·<br>Argano del braccio · Cabrestante de pluma ·<br>Guincho da lança · Подъем стрелы                                                                                                                               |
|  | Load radius · Lastradius · Portée · Raggio di lavoro ·<br>Radio de trabajo · Raio de operação ·<br>Рабочий радиус                                                                                                                                                                |  | Travel speed · Fahrgeschwindigkeit · Vitesse de<br>déplacement · Velocità di spostamento · Velocidad<br>de desplazamiento · Velocidade de deslocamento ·<br>Скорость движения                                                                                    |
|  | Main boom · Hauptausleger · Flèche principale ·<br>Braccio principale · Pluma principal · Lança principal ·<br>Главная стрела                                                                                                                                                    |  | Working speeds · Arbeitsgeschwindigkeiten ·<br>Vitesses opérationnelles · Velocità di lavoro ·<br>Velocidades de trabajo · Velocidades de trabalho ·<br>Рабочие скорости                                                                                         |
|  | Fly jib · Hilfsausleger · Fléchette · Falcone · Plumín ·<br>Lança auxiliar · Стрела с изменяемым вылетом                                                                                                                                                                         |  | Slewing · Drehwerk · Orientation · Rotazione ·<br>Unidad de giro · Giro · механизм вращения                                                                                                                                                                      |
|  | Mast · Mast · Mât · Montante · Mástil · Mastro ·<br>Мачта                                                                                                                                                                                                                        |  | Max. line pull · Max. Seilzug · Traction par câble max. ·<br>Tiro singolo max. · Tensión máx. de cable · Tração máx.<br>por cabo · Максимальная грузоподъемность троса                                                                                           |
|  | Main boom angle · Hauptauslegerwinkel ·<br>Jarret de flèche principale · Inclinação braccio base ·<br>Ángulo de pluma principal · Ángulo da lança principal ·<br>Угол наклона главной стрелы                                                                                     |  | Rope diameter · Seildurchmesser · Diamètre du câble ·<br>Diametro della fune · Diámetro cable · Diámetro do<br>cabo · Диаметр троса                                                                                                                              |
|  | Fly jib angle · Hilfsauslegerwinkel · Jarret de<br>fléchette · Inclinação falcone · Ángulo de plumín ·<br>Ángulo da lança auxiliar · Угол наклона стрелы с<br>изменяемым вылетом                                                                                                 |  | Rope length · Seillänge · Longueur de câble ·<br>Lunghezza fune · Longitud cable · Compr. cabo ·<br>Длина троса                                                                                                                                                  |
|  | Runner · Montagespitze · Potence · Runner · Runner ·<br>Ponta de montagem (Runner) · Шкив                                                                                                                                                                                        |  | Number of lines · Einscherung · Nombre de brins ·<br>Numero di rinvii · Número de ramales · Número de<br>cabos · Кратность троса                                                                                                                                 |
|  | Track shoe width · Kettenbreite · Largeur des tuiles ·<br>Larghezza cingolo · Ancho de la zapata de la oruga ·<br>Largura da sapata da esteira · Ширина звена<br>гусеницы                                                                                                        |  | Number of sheaves · Anzahl Seilrollen · Nombre de<br>poules · Número de poleas · Numero di pulegge ·<br>Número de polias · Количество шкивов                                                                                                                     |
|                                                                                     |                                                                                                                                                                                                                                                                                  |  | Wind speed in m/s (meter per second) · Wind-<br>geschwindigkeit in m/s · Vitesse du vent en m/s ·<br>Velocità del vento in m/s (metri al secondo) ·<br>Velocidad del viento en m/s · Velocidade do vento em<br>m/s (metros por segundo) · Скорость ветра в м/сек |

# Key

Zeichenerklärung · Légende · Leggenda · Leyenda · Legenda ·  
Условные обозначения



Distance head sheave axle – hook ground · Abstand  
Kopfrollenachse – Hakengrund · Distance entre l'axe de  
la poulie de tête et le fond du crochet · Distanza asse  
puleggia da testa – zona di ancoraggio del gancio ·  
Distancia eje de la polea de cabeza – fondo del gancho ·  
Distância entre o eixo da polia da cabeça e o fundo  
do gancho · Расстояние от оси шкива вершины до  
низа крюка

S: heavy · schwer · lourd · pesante · pesado · pesada ·  
сильный

L: light · leicht · léger · leggera · ligero · leve ·  
слабый

H, HA: Main boom · Hauptausleger · Flèche principale ·  
Braccio principale · Pluma principal · Lança principal ·  
Главная стрела

HI: Luffing jib · Hilfsausleger · Fléchette · Falcone · Plumín ·  
Lança auxiliar · Стрела с изменяемым вылетом

MA: Mast · Mast · Mât · Montante · Mástil · Mastro ·  
Мачта

R: Runner · Montagespitze · Potence · Runner · Runner ·  
Ponta de montagem (Runner) · Шкив

W: Luffing fly jib · Wippbarer Hilfsausleger ·  
Fléchette à volée variable · Falcone a volata variabile ·  
Plumín abatible · Jib de lance variável ·  
Стрела с изменяемым углом вылета и гуськом

F: Fixed fly jib · Starrer Hilfsausleger · Fléchette fixe ·  
Falcone fisso · Plumín fijo · Lança auxiliar fixa ·  
Неподвижная стрела с изменяемым вылетом

SL: Superlift · Superlift · Levage supplémentaire ·  
Superlift · Superlift · Kit Superlift · Суперлифт  
(система для увеличения грузоподъемности)

V: Vessellift · Vessellift · Vessellift · Vessellift · Vessellift ·  
Içamento de embarcação · Подъем судов

SFSL: Variation of SWSL: all radii will be reached by adjusting the main boom angle (luffing fly jib 15° offset to main boom  
permanently)

Variante von SWSL: alle Radien werden mit Verstellen des Hauptauslegerwinkels angefahren (Wippausleger dauerhaft im  
15° Winkel zum Hauptausleger)

Variante de la SWSL : tous les rayons sont atteints en ajustant l'angle de la flèche principale (déport de la fléchette  
relevable de 15° par rapport à la flèche principale en permanence)

Variazione di SWSL: tutti i raggi saranno ottenuti regolando l'angolo del braccio principale (falcone a volata variabile  
permanentemente inclinato di 15° rispetto al braccio principale)

Variación del SWSL: todos los radios son alcanzados ajustando el ángulo de la pluma principal (angulamiento permanente  
de 15° del plumín abatible respecto a la pluma principal)

Variação do SWSL: todos os raios serão alcançados por meio do ajuste do ângulo da lança principal (braço auxiliar  
articulado com offset de 15° em relação à lança principal permanentemente)

Вариант SWSL: горизонтальный вылет на любом радиусе достигается за счет регулирования угла наклона  
основной стрелы (гусек с изменяемым вылетом постоянно закреплен под углом 15° к основной стреле)

# Highlights

650 t at 12 m radius

Load moment of 9152 tm

Fall protection as standard

Erection of main boom 114 m with 12 m LF and hook block mounted: without superlift mast and without assist crane

Erection of wind turbines up to **170 m** hub height with superlift, up to 110 m hub height without superlift

Best in class ergonomics for operator

Suitable for worldwide operation

650 t Tragfähigkeit bei 12 m Radius

Max. Lastmoment 9152 mt

Absturzsicherung serienmäßig

Aufrichten des 114 m Hauptauslegers mit angebaute 12 m LF und Haken ohne Superliftmast und ohne Hilfskran

Errichtung von Windturbinen mit einer Nabenhöhe von bis zu **170 m** mit Superlift bzw. bis zu 110 m ohne Superlift

Bedienergonomie der Spitzenklasse

Für weltweiten Einsatz konzipiert

650 t à 12 m de rayon

Moment de charge de 9152 tm

Protection anti-chute en série

Montage de la flèche principale de 114 m avec 12 m LF et crochet moufle montés : sans mât superlift et sans grue auxiliaire

Installation d'éoliennes avec Superlift pour celles dont le moyeu atteint **170 m** de haut et sans Superlift pour celles dont le moyeu atteint 110 m de haut

Ergonomie optimale du poste de conduite

Conçue pour une utilisation dans le monde entier

Portata di 650 t entro 12 m

Momento di carico di 9152 tm

Protezione anticaduta di serie

Braccio 114 m configurabile con LF 12 m e bozzello montati: senza superlift e senza gru ausiliaria

Montaggio di turbine eoliche con altezza del mozzo fino a **170 m** con Superlift; con altezza del mozzo fino a 110 m senza Superlift

Comandi ergonomici di prim'ordine per il comfort dell'operatore

Concepita per l'uso internazionale

650 t para radio de 12 m

Momento de carga máx. 9152 tm

Protección contra caídas de serie

Erección de pluma principal 114 m con LF de 12 m y bloque de gancho montado: sin mástil superlift ni grúa auxiliar

Montaje de turbinas eólicas de hasta **170 m** de altura de eje con Superlift y de hasta 110 m de altura de eje sin Superlift

Mejor ergonomía para el operador de su clase

Adecuada para operaciones a nivel mundial

650 t com 12 m de raio

Momento de carga de 9152 t

Proteção contra quedas de série

Montagem de lança principal de 114 m com auxiliar de 12 m e moitão instalados; sem mastro do superlift e sem guindaste de apoio

Montagem de turbinas eólicas até **170 m** de altura do cubo com Superlift, até 110 m de altura do cubo sem Superlift

Ergonomia inigualável para o operador

Recomendado para operação no mundo inteiro

650 т при радиусе 12 м

Грузовой момент 9152 тм

Защита от падения с высоты в стандартной

Высота главной стрелы 114 м с вспом. стрелой LF длиной 12 м и установленным крюкоблоком: без мачты суперлифт

Установка ветрогенераторов с высотой до ступицы ветроколеса до **170 м** с использованием системы Superlift, и с высотой до ступицы 110 м без использования системы Superlift

Лучшая к классу эргономика для оператора

Пригоден для использования в любой стране мира



A detailed technical line drawing of a tracked vehicle, possibly a military or industrial transport, equipped with a large crane. The drawing is rendered in white lines on a solid blue background. The crane is mounted on the rear of the vehicle and is shown in a partially extended position. The vehicle has a complex chassis with multiple tracks and a large, boxy body. The drawing includes various mechanical details like joints, bolts, and structural beams.

# SPECIFICATIONS

TECHNISCHE DATEN

CARACTÉRISTIQUES

DATI TECNICI

DATOS TÉCNICOS

ESPECIFICAÇÕES

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ



# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Working speeds (infinitely variable) · Arbeitsgeschwindigkeiten (stufenlos regelbar) · Vitesses de travail (réglables sans paliers) · Rapporti di lavoro (a regolazione continua) · Velocidades de trabajo (progresión continua) · Velocidades de trabalho (infinitamente variáveis) · Рабочие скорости (с бесступенчатой регулировкой)

|                                                                                     |  |  |  |  |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|    | max. 130 m / min                                                                  | 180 kN                                                                            | 28 mm                                                                               | 1000 m                                                                              |
|    | max. 130 m / min                                                                  | 180 kN                                                                            | 28 mm                                                                               | 1000 m                                                                              |
|    | max. 117 m / min                                                                  | 180 kN                                                                            | 28 mm                                                                               | 650 m                                                                               |
|    | max. 130 m / min                                                                  |                                                                                   | 28 mm                                                                               |                                                                                     |
|    | max. 125 m / min                                                                  |                                                                                   | 28 mm                                                                               |                                                                                     |
|    | max. 120 m / min                                                                  |                                                                                   | 28 mm                                                                               |                                                                                     |
|   | 0-1 rpm                                                                           |                                                                                   |                                                                                     |                                                                                     |
|  | max. 1,1 km/h                                                                     |                                                                                   |                                                                                     |                                                                                     |

<sup>1)</sup> top layer · oberste Lage · couches supérieure · avvolgimento superiore · capa superior · camada superior · верхний слой

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Hook block system · Unterflaschensystem · Système de crochet-moufle · Sistema per bozzello · Sistema de bloque de gancho · Sistema de moitão · Система крюкоблока

|  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2 x 325                                                                           | 650 t<br>380 t                                                                    | 4 x 5<br>1 x 10                                                                   | 2 x 20<br>1 x 21                                                                  | 10,1 t – 13,2 t<br>7,3 t – 11,3 t<br>(3,8 t – 11,0 t*)                              | 5,60 m<br>5,60 m<br>(4,90 m*)                                                       |
| 2 x 190                                                                           | 380 t<br><br>190 t                                                                | 2 x 5<br><br>1 x 5                                                                | 2 x 11<br><br>1 x 11                                                              | 7,3 t – 11,3 t<br>(3,8 t – 11,0 t*)<br><br>6,2 t<br>(2,7 t – 4,8 t*)                | 5,90 m<br>(4,90 m*)<br><br>5,90 m<br>(5,20 m*)                                      |

\* with optional equipment 400 t hook or 200 t hook · mit optionalem 400 t Haken oder 200 t Haken · avec équipement optionnel: crochet de 400 t ou crochet de 200 t hook · con gancio opzionale da 400 t o 200 t · con equipamiento opcional, gancho 400 t o 200 t · com gancho de 400 t ou 200 t como equipamento opcional · с опциональным крюком 400 т или 200 т

Hook block · Unterflasche · Crochet-moufle · Bozzello · Bloque de gancho · Moitão · Крюкоблок

|  |  |  |  |  |  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| 2 x 90                                                                            | 178 t                                                                             | 2 x 2                                                                             | 2 x 5                                                                             | 2,3 t – 8,9 t                                                                       | 4,50 m                                                                              |
| 1 x 125                                                                           | 123,5 t                                                                           | 1 x 3                                                                             | 1 x 7                                                                             | 1,8 t – 5,1 t                                                                       | 4,60 m                                                                              |
| 1 x 54                                                                            | 54 t                                                                              | 1 x 1                                                                             | 1 x 3                                                                             | 1,1 t – 3,3 t                                                                       | 4,50 m                                                                              |
| 1 x 18 *                                                                          | 18 t                                                                              | –                                                                                 | 1 x 1                                                                             | 1,1 t                                                                               | 3,90 m                                                                              |

\* Single line hook / Hakengehänge / Boulet / Gancio singolo / Gancho simple / Gancho para linha singela / Крюк на одиночном тросе

Number of lines · Einsicherung · Nombre de brins · Numero di rinvii · Número de ramales · Número de cabos · Кратность троса

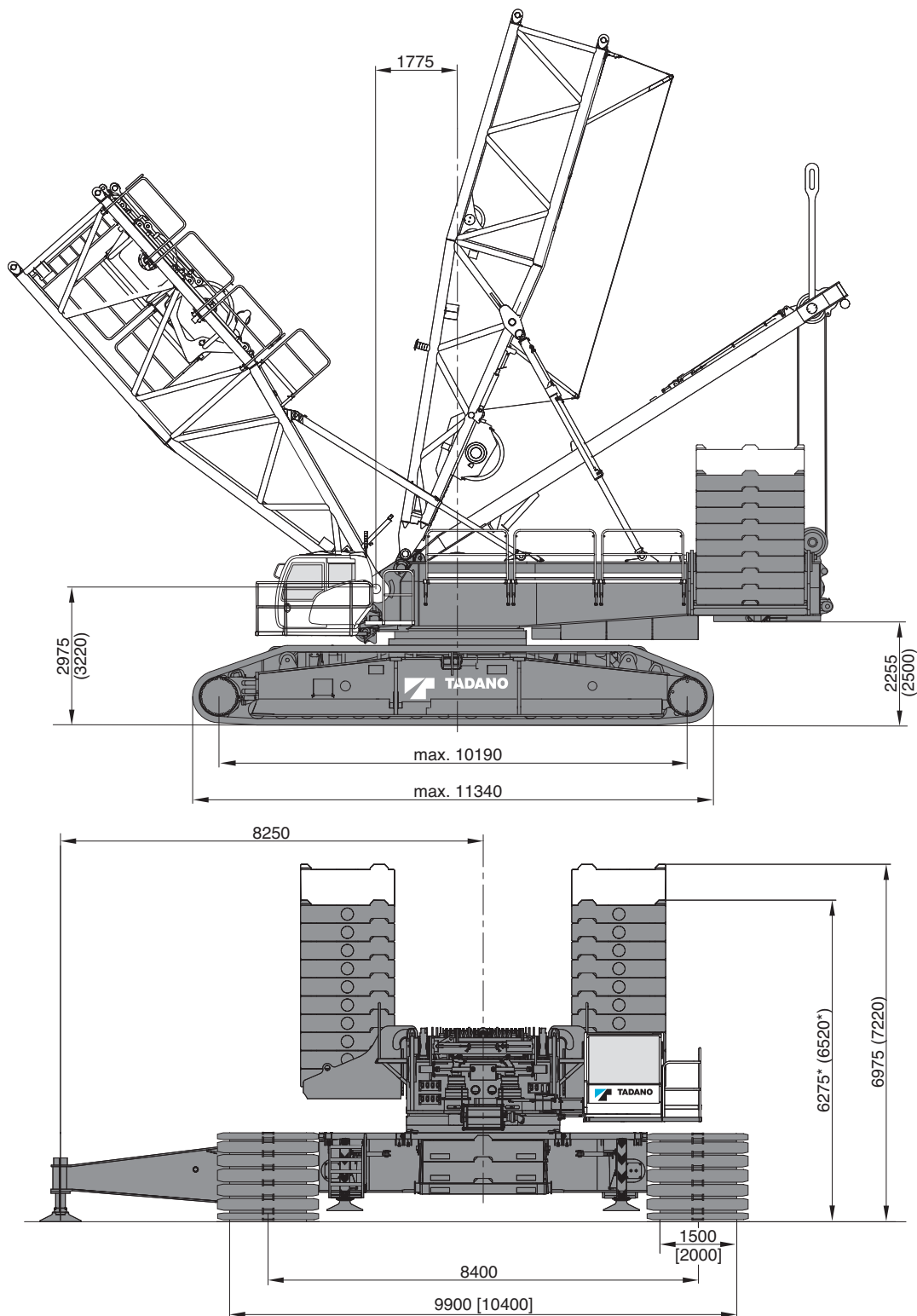
|  | 1         | 2     | 3     | 4     | 5     | 6     | 7     | 8     | 9     | 10     | 11     | 12     | 13     | 14     | 15     | 16     | 17     | 18     | 19     | 20     | 21     |
|-------------------------------------------------------------------------------------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|  | 18        | 36    | 54    | 71    | 89    | 106   | 123   | 140   | 157   | 173    | 190    | 206    | 222    | 238    | 254    | 270    | 285    | 300    | 316    | 331    | 346    |
|  | 1 x 18 t  | X     |       |       |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | 1 x 54 t  | X     | X     | X     |       |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | 1 x 125 t | X     | X     | X     | X     | X     | X     |       |       |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | 1 x 190 t |       |       |       | X     | X     | X     | X     | X     | X      | X      |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | 1 x 380 t |       |       |       | X     | X     |       | X     | X     | X      |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |
|  | 2 x 1     | 2 x 2 | 2 x 3 | 2 x 4 | 2 x 5 | 2 x 6 | 2 x 7 | 2 x 8 | 2 x 9 | 2 x 10 | 2 x 11 | 2 x 12 | 2 x 13 | 2 x 14 | 2 x 15 | 2 x 16 | 2 x 17 | 2 x 18 | 2 x 19 | 2 x 20 | 2 x 21 |
|  |           | 72    | 108   | 142   | 178   | 212   | 246   | 280   | 314   | 346    | 380    | 412    | 444    | 476    | 508    | 540    | 570    | 600    | 632    | 650    | 650    |
|  | 2 x 90 t  | X     | X     | X     | X     |       |       |       |       |        |        |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | 2 x 190 t |       |       | X     | X     | X     | X     | X     | X     | X      | X      |        |        |        |        |        |        |        |        |        |        |
|                                                                                     | 2 x 325 t |       |       |       |       |       |       |       |       |        | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      | X      |

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Basic crane dimensions · Hauptabmessungen · Dimensions de la grue de base · Dimensioni di base della gru · Dimensiones básicas de la grúa · Dimensões do guindaste básico · Базовые габариты крана



( ) with optional quick connection · mit optionaler Schnellverbindung · avec système d'attache rapide en option · con attacco rapido opzionale · con conexión rápida opcional · com engate rápido opcional · Опция: быстроразъемное соединение

[ ] Option · Option · En option · Opzione · Opcion · Opcional · Опция

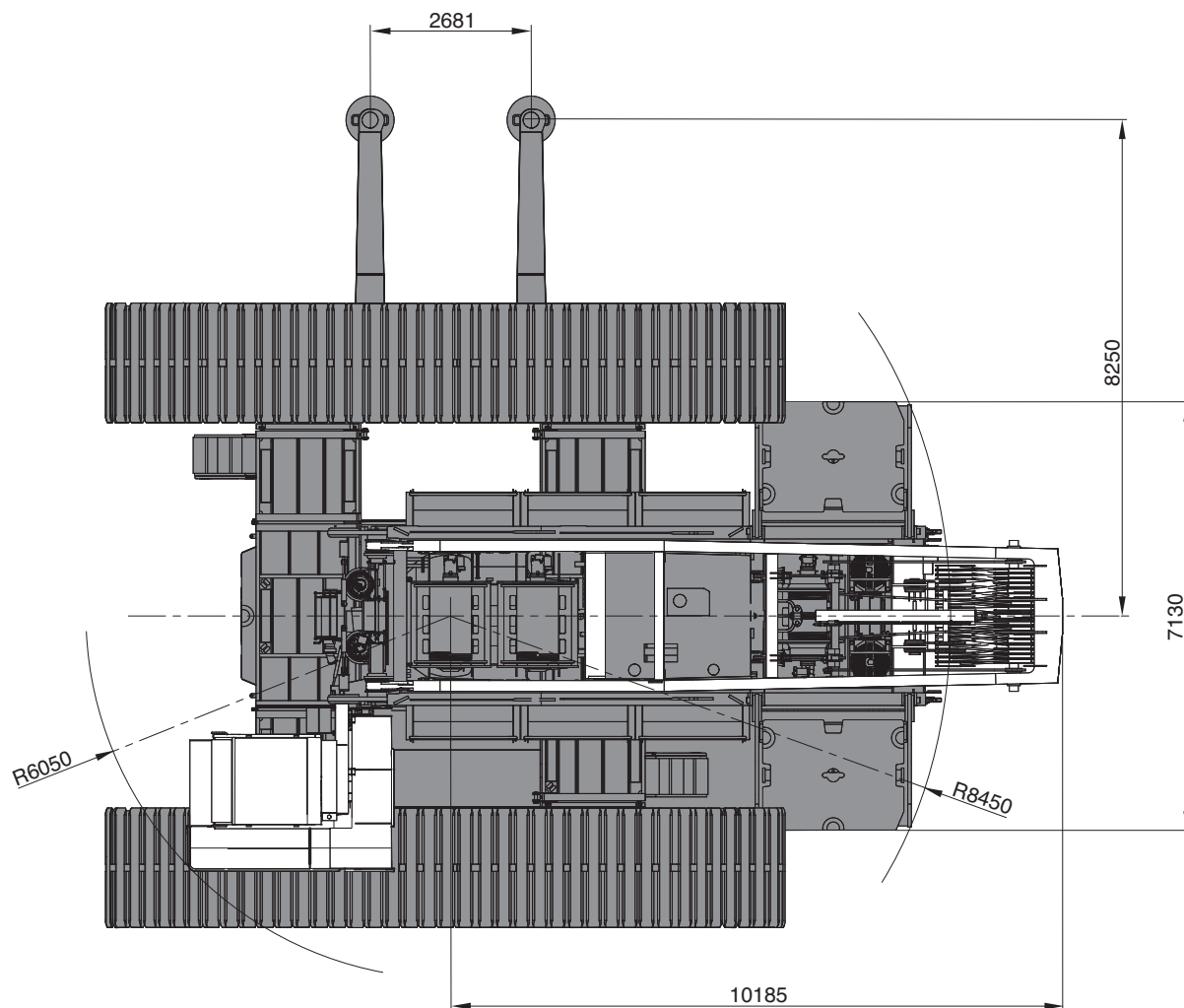
\* Optional cast iron · Stahlguss optional · Fonte en option · In ghisa, opzionale · Opcionalmente: hierro fundido · Opcional ferro fundido · По выбору клиента из чугуна

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Basic crane dimensions · Hauptabmessungen · Dimensions de la grue de base · Dimensioni di base della gru ·  
Dimensiones básicas de la grúa · Dimensões do guindaste básico · Базовые габариты крана



# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

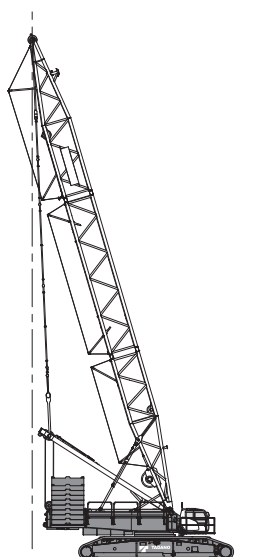
Datos técnicos · Especificações · Технические характеристики

Superlift Configurations · Superlift-Konfigurationen · Combinaisons Superlift · Configurazioni Superlift · Configuraciones Superlift · Configurações do Superlift · Варианты конфигурации суперлифт

## SL-Mast 36 m

### SL 0 t 9 m

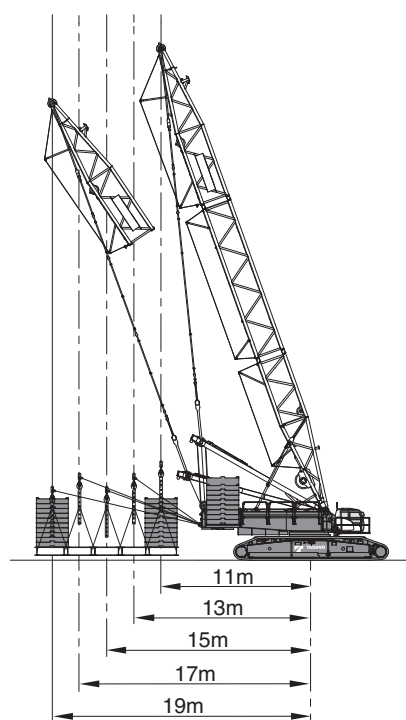
R 9 m



### Standard-SL

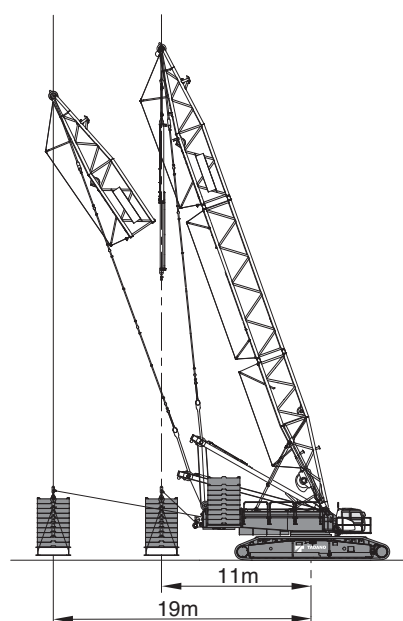
R 19.5 15.5 11.5m

17.5 13.5



### Vario-SL 11-19 m

R 19.5 - 11.5m

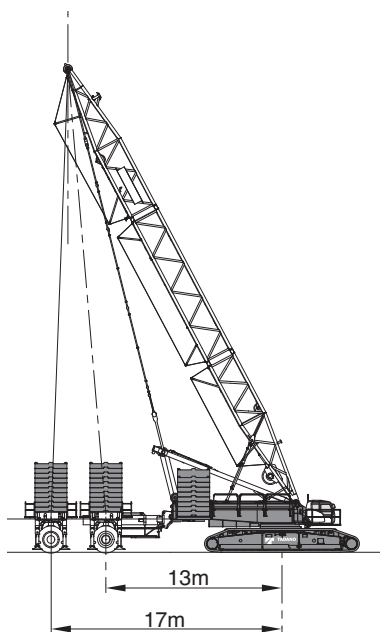


## SL-Mast 36 m

SL Carrier · SL-Wagen · Châssis SL · Carro SL ·  
Carro SL · Veículo do SL · Шасси SL

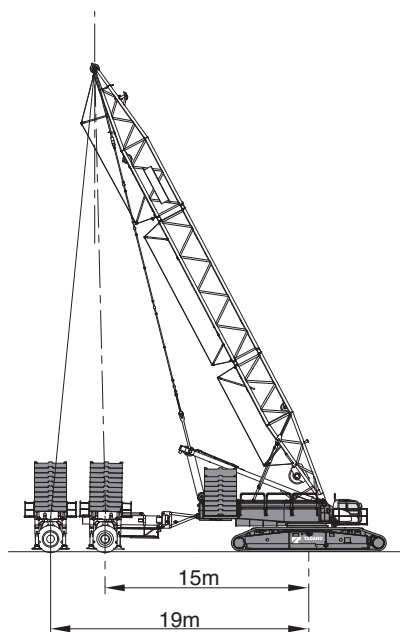
### 13-17 m

R 15.75 m



### 15-19 m

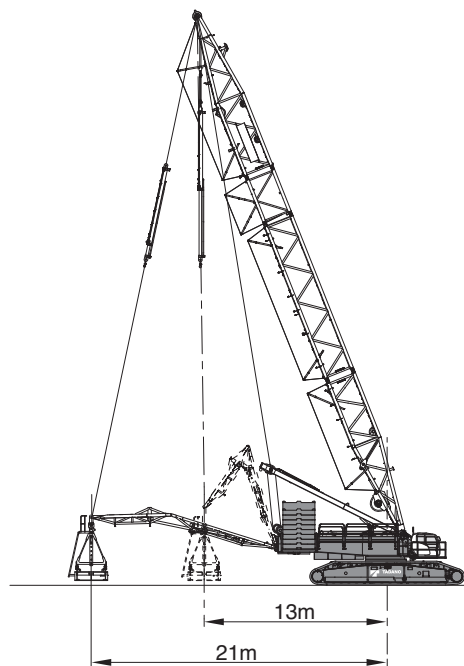
R 15.75 m



## SL-Mast 39.5 m & 42 m

Flex Frame  
13-21 m

R 13.75 m





# Specifications

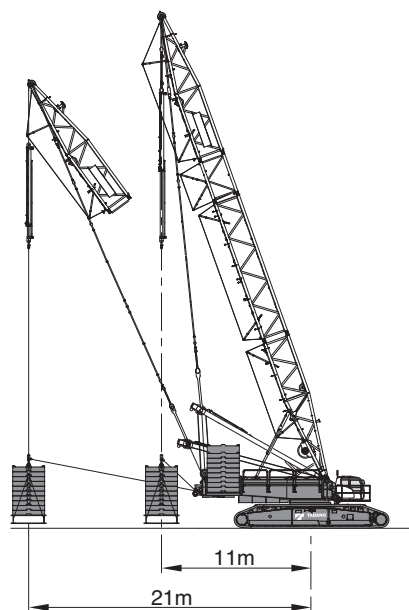
Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Superlift Configurations · Superlift-Konfigurationen · Combinaisons Superlift · Configurazioni Superlift · Configuraciones Superlift · Configurações do Superlift · Варианты конфигурации суперлифт

## Vario-SL 11-21 m

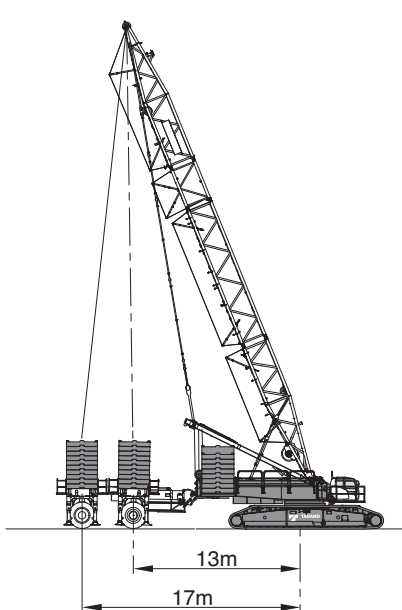
R 21.5 - 11.5 m



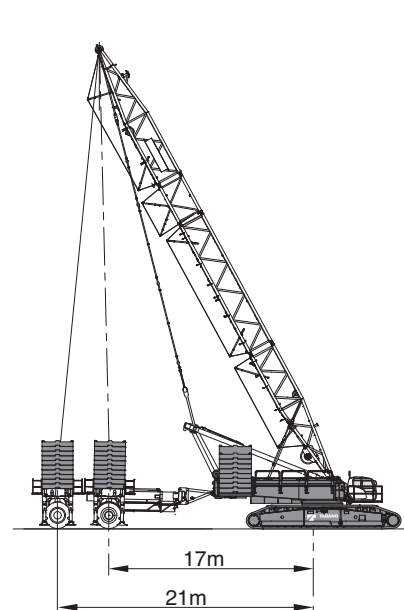
## SL-Mast 39.5 m

SL Carrier · SL-Wagen · Châssis SL · Carro SL ·  
Carro SL · Veículo do SL · Шасси SL

R 13.75 m



R 17.75 m



Alternatively, the telescope connector may be used in combination with the Superlift Tray

Alternative Verwendung der Teleskopverbindung mit dem Superlift-Tray ist möglich

Vous pouvez également utiliser un connecteur télescopique avec le plateau SuperLift Tray

In alternativa, può essere utilizzato il cilindro di sfilo in combinazione con il supporto Superlift

Alternativamente se puede utilizar el conector telescópico en combinación con la bandeja Superlift

Como alternativa, o conector do telescópio pode ser usado em combinação com a Base do Superlift

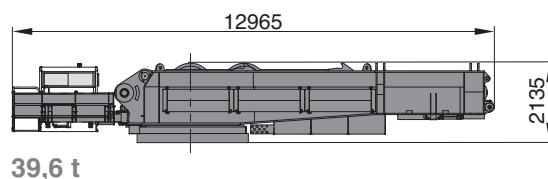
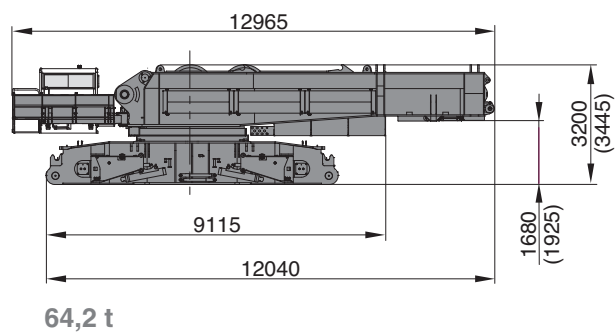
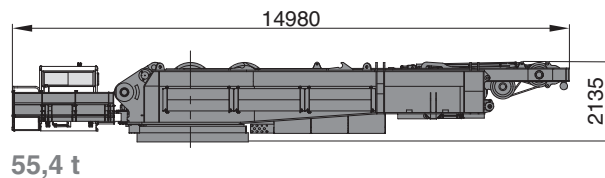
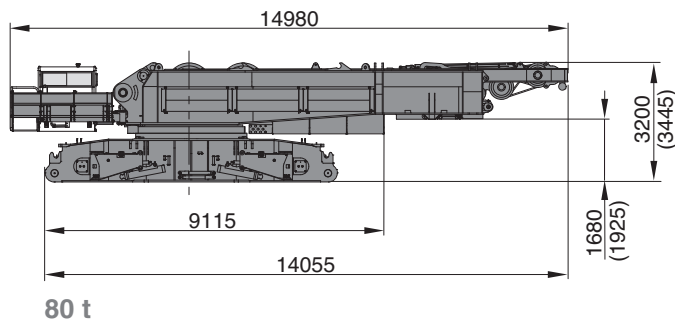
В качестве альтернативы может использоваться телескопический соединитель в сочетании с платформой для противовесов Superlift

# Specifications

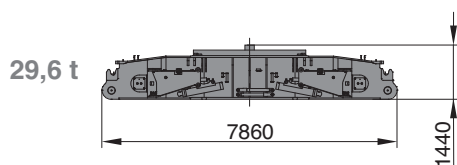
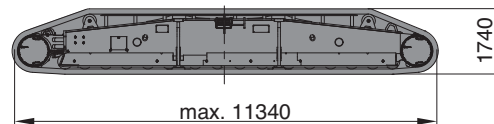
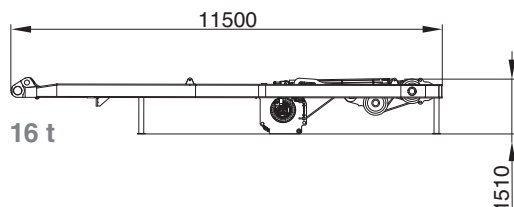
Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

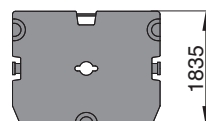
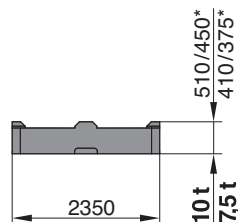
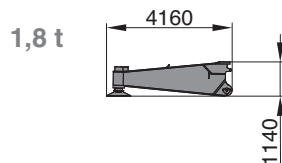
Transportation · Transport · Transport · Trasporto · Transporte · Transporte ·  
Транспортировка



Without winches H1 + H2 (7,0 t each) · Ohne Winden H1 und H2 (je 7,0 t) · Sans treuils H1 + H2 (7,0 t chacun) · Senza argani H1 + H2 (7,0 t ciascuno) · Sin cabestrantes H1 + H2 (7,0 t cada uno) · Sem guinchos H1 + H2 (7,0 t cada) · Без лебедок H1 + H2 (7,0 т каждая)



|        | Duo           | Quadro        |
|--------|---------------|---------------|
| 1,50 m | <b>37,3 t</b> | <b>40,7 t</b> |
| 2,00 m | <b>39,0 t</b> | <b>42,4 t</b> |



2 additional side jacks optional · 2 x optionale seitliche Zusatzabstützung · 2 appuis latéraux additionnels en option · 2 martinetti laterali aggiuntivi su richiesta · Opcionalmente 2 gatos laterales adicionales · 2 outros macacos laterais opcionais · В качестве опции 2 дополнительные боковые опоры

\* Optional cast iron · Stahlguss optional · Fonte en option · In ghisa, opzionale · Opcionalmente: hierro fundido · Opcional ferro fundido · По выбору клиента из чугуна

In brackets: with quick connection · In Klammern: mit Schnellverbindung · Entre parenthèses : avec connexion rapide · Fra parentesi: con raccordo rapido · Entre paréntesis: con acoplamiento rápido · Entre parênteses: com engate rápido · В скобках: с быстроразъемное соединение

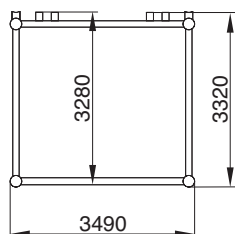
# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

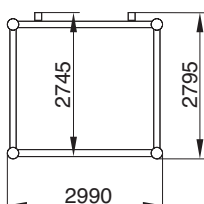
Transportation · Transport · Transport · Trasporto · Transporte · Transporte ·  
Транспортировка

## Boom Booster



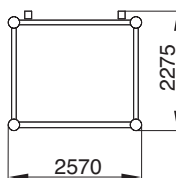
Typ 3330A

## Main Boom (HA)



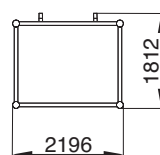
Typ 2824A

## Jib (HI) Superlift-Mast (MA)



Typ 2420A  
Typ M2420A (MA)

## LF

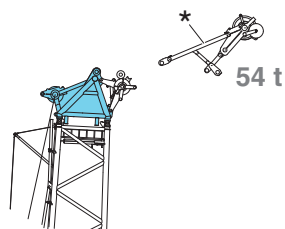


Typ 2016A

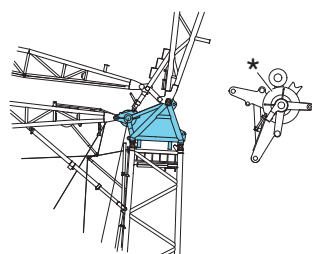
Boom heads · Auslegerköpfe · Têtes de flèche · Cabezas de pluma · Teste del braccio · Cabeças de lança ·  
Головки стрелы

## A

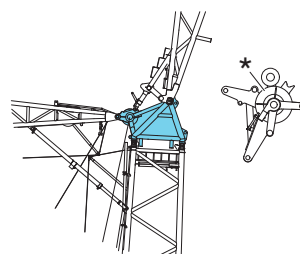
(max. 650 t)



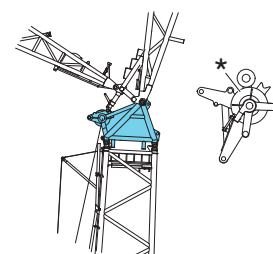
## A1



## A2

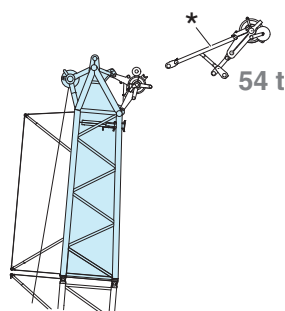


## A3

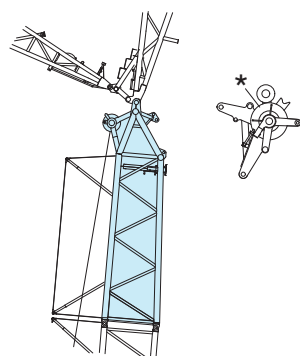


## B

(max. 350 t)



## B1

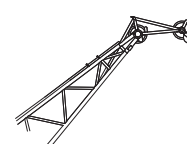


## C



## D

(max. 178 t)



\* Attachable · Anbaubar · Amovible · Montabile · Acoplable · Adaptável · Приставн

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Erection / lowering of the boom systems to the ground · Aufrichten / Ablegen der Auslegersysteme ·  
 Montée / placement sur sol des systèmes de flèche · Montaggio / calata dei sistemi braccio a terra ·  
 Erección / descenso al terreno del sistema de pluma · Levantamento / descida dos sistemas da lança para o solo ·  
 Подъем / опускание системы стрелы крана на землю

|                                                                                                                        |  |  |    |    |       |     |     |     |     |     |     |     |     |     |     |     |     |     |
|------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|-------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                                                                        | m                                                                                 | m                                                                                 | 24 | 30 | 36    | 42  | 48  | 54  | 60  | 66  | 72  | 78  | 84  | 90  | 96  | 102 | 108 | 114 |
| <b>SH_1</b>                                                                                                            |                                                                                   |                                                                                   | X  | X  | X     | X   | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | –   | –   | –   |
| <b>LH_1</b>                                                                                                            |                                                                                   |                                                                                   | –  | –  | X     | X   | X   | X   | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | [X] |
|                                                                                                                        |                                                                                   | m                                                                                 | 36 | 39 | 42-75 | 78  | 81  | 84  | 87  | 90  | 93  | 96  | 99  | 102 | 105 | 108 | 111 | 114 |
| <b>LH_5</b>                                                                                                            |                                                                                   |                                                                                   | X  | X  | X     | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] |
|                                                                                                                        |                                                                                   | m                                                                                 | 24 | 30 | 36    | 42  | 48  | 54  | 60  | 66  | 72  | 78  | 84  | 90  | 96  | 102 | 108 | 114 |
| <b>SW_1</b><br><br>85°                | 24 - 36                                                                           |                                                                                   | –  | X  | X     | X   | X   | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                                        | 42 - 48                                                                           |                                                                                   | –  | X  | X     | X   | X   | X   | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                                        | 54 - 66                                                                           |                                                                                   | –  | X  | X     | X   | X   | [X] | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                                        | 72 - 90                                                                           |                                                                                   | –  | X  | X     | X   | X   | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   |
|                                                                                                                        | 96                                                                                |                                                                                   | –  | X  | X     | X   | [X] | [X] | [X] | [X] | –   | –   | –   | –   | –   | –   | –   | –   |
| <b>SH+LF_1</b><br><br>15°, 20°, 30°   | 12                                                                                |                                                                                   | –  | X  | X     | X   | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | –   | –   | –   |
|                                                                                                                        | 24                                                                                |                                                                                   | –  | X  | X     | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | –   | –   | –   | –   |
|                                                                                                                        | 36                                                                                |                                                                                   | –  | X  | X     | X   | X   | X   | X   | X   | [X] | [X] | [X] | –   | –   | –   | –   | –   |
| <b>LH+LF_1</b><br><br>15°, 20°, 30° | 12                                                                                |                                                                                   | –  | –  | –     | –   | X   | X   | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | [X] |
|                                                                                                                        | 24                                                                                |                                                                                   | –  | –  | –     | –   | X   | X   | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | –   |
|                                                                                                                        | 36                                                                                |                                                                                   | –  | –  | –     | –   | X   | X   | X   | X   | X   | [X] | [X] | [X] | [X] | [X] | –   | –   |
|                                                                                                                        |                                                                                   | m                                                                                 |    |    | 72    | 75  | 78  | 81  | 84  | 87  | 90  | 93  | 96  | 99  | 102 | 105 | 108 | 111 |
| <b>LH+LF_3</b><br><br>15°, 20°      | 12                                                                                |                                                                                   |    |    | X     | X   | X   | X   | X   | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] |
| <b>LH+LF_4</b><br><br>15°, 20°      | 12                                                                                |                                                                                   |    |    | –     | –   | –   | –   | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | [X] | –   |
|                                                                                                                        | 18                                                                                |                                                                                   |    |    | –     | –   | –   | –   | [X] | [X] | [X] | [X] | [X] | [X] | –   | –   | –   | –   |

X without assisting equipment · ohne Zusatzausrüstung · sans équipement aditionnel · senza attrezzatura di supporto ·  
 sin equipamiento de asistencia · sem equipamento auxiliar · без вспомогательного оборудования

[X] with additional side jack · mit seitlicher Zusatzabstützung · avec support latéral aditionnel · con martinetto laterale aggiuntivo ·  
 con gato lateral adicional · com macaco lateral adicional · с дополнительным боковым домкратом

All Superlift combinations can be erected or lowered to the ground without assisting equipment.

Alle Varianten mit Superlift können ohne Zusatzausrüstung aufgerichtet bzw. abgelegt werden.

Montée et dépose sur sol de toutes les combinaisons avec SL sans équipement aditionnel.

Tutte le combinazioni Superlift possono essere alzate o abbassate a terra senza attrezzatura di supporto.

Todas las combinaciones Superlift se pueden erigir o descender al terreno sin equipamiento de asistencia.

Todas as combinações de Superlift podem ser levantadas ou baixadas ao solo sem equipamentos auxiliares.

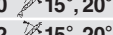
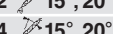
Оборудование суперлифт в любой конфигурации поднимается и опускается на землю без вспомогательного оборудования.

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Erection / lowering of the boom systems to the ground · Aufrichten / Ablegen der Auslegersysteme ·  
Montée / placement sur sol des systèmes de flèche · Montaggio / calata dei sistemi braccio a terra ·  
Errección / descenso al terreno del sistema de pluma · Levantamento / descida dos sistemas da lança para o solo ·  
Подъем / опускание системы стрелы крана на землю

|                                                                                                           |  |  |  |    |    |    |    |    |    |     |     |     |     |     |     |                                     |     |     |     |     |     |     |     |     |     |     |     |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                                                                                                           | m                                                                                 | m                                                                                 | m                                                                                 | 36 | 42 | 48 | 54 | 60 | 66 | 72  | 78  | 84  | 90  | 96  | 102 | 108                                 | 114 | 120 | 126 | 132 | 138 | 144 | 150 | 156 |     |     |     |
| SSL_1                                                                                                     | 36                                                                                |                                                                                   |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| SSL_2                                                                                                     | 39.5                                                                              |                                                                                   |                                                                                   | –  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| SSL_3                                                                                                     | 39.5                                                                              |                                                                                   |                                                                                   | –  | –  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| SSL_4                                                                                                     | 39.5                                                                              |                                                                                   |                                                                                   | –  | –  | –  | –  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| LSL_1                                                                                                     | 36                                                                                |                                                                                   |                                                                                   | –  | –  | –  | –  | –  | –  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | X   | X   | X   | X   | –   |     |     |
| LSL_2                                                                                                     | 36                                                                                |                                                                                   |                                                                                   | –  | –  | –  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | X   | X   | X   | X   | –   |     |     |
|  85°                     | 36                                                                                | 24                                                                                |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | –   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 30                                                                                |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | –   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 36 - 60                                                                           |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 66 - 90                                                                           |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 96                                                                                |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | –   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| SWSL_3<br>SWSL_4<br> 85° | 39.5                                                                              | 24                                                                                |                                                                                   | –  | –  | o  | o  | X  | X  | X   | X   | X   | X   | X   | –   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 30                                                                                |                                                                                   | –  | –  | o  | o  | X  | X  | X   | X   | X   | X   | X   | X   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 36 - 84                                                                           |                                                                                   | –  | –  | o  | o  | X  | X  | X   | X   | X   | X   | X   | X   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 90                                                                                |                                                                                   | –  | –  | o  | o  | X  | X  | X   | X   | X   | X   | X   | X   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   | 96                                                                                |                                                                                   | –  | –  | o  | o  | X  | X  | X   | X   | X   | X   | X   | –   | –                                   | –   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| SSL+LF_1               | 36                                                                                | 12, 24, 36                                                                        |                                                                                   | –  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| LSL+LF_2               | 36                                                                                | 12, 24, 36                                                                        |                                                                                   | –  | –  | –  | –  | –  | –  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | X   | X   | X   | –   | –   |     |     |
| LVSL_1                                                                                                    | 36                                                                                | 12                                                                                |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
| LVSL_3, LVSL_4                                                                                            | 39.5                                                                              | 12                                                                                |                                                                                   | –  | –  | o  | o  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | –   | –   | –   | –   | –   | –   | –   | –   |     |     |
|                                                                                                           |                                                                                   |                                                                                   | m                                                                                 | 78 | 84 | 90 | 93 | 96 | 99 | 102 | 105 | 108 | 111 | 114 | 117 | 120-126-132-150-<br>123 129 147 159 |     |     |     |     |     |     |     | 162 | 165 | 168 | 171 |
| LSL_5                                                                                                     | 36                                                                                |                                                                                   |                                                                                   | –  | –  | –  | –  | –  | –  | –   | –   | –   | –   | X   | X   | X                                   | X   | X   | X   | X   | –   | –   | –   | –   | –   |     |     |
| LSL_7                                                                                                     | 36                                                                                |                                                                                   |                                                                                   | –  | –  | –  | –  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | –   | –   | –   | –   | –   |     |     |
| LSL_9                                                                                                     | 39.5                                                                              |                                                                                   |                                                                                   | –  | –  | –  | –  | –  | –  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | (X) | (X) | –   | –   | –   |     |     |
| LSL_11                                                                                                    | 39.5                                                                              |                                                                                   |                                                                                   | –  | –  | –  | –  | –  | –  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | (X) | (X) | –   | –   | –   |     |     |
| LSL_13                                                                                                    | 39.5                                                                              |                                                                                   |                                                                                   | –  | –  | –  | –  | –  | –  | –   | –   | –   | –   | –   | –   | X                                   | X   | X   | X   | (X) | (X) | (X) | (X) | –   | –   |     |     |
| LSL_15                                                                                                    | 42                                                                                |                                                                                   |                                                                                   | X  | X  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | (X) | (X) | (X) | (X) | (X) | (X) |     |     |
| LSL+LF_3               | 36                                                                                | 12                                                                                |                                                                                   | X  | X  | X  | –  | X  | –  | X   | –   | X   | X   | X   | X   | X                                   | X   | X   | X   | –   | –   | –   | –   | –   | –   |     |     |
| LSL+LF_4               | 36                                                                                | 12                                                                                |                                                                                   | –  | –  | –  | –  | –  | –  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | –   | –   | –   | –   | –   |     |     |
| LSL+LF_4               | 36                                                                                | 24                                                                                |                                                                                   | –  | –  | –  | –  | –  | –  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | –   | –   | –   | –   | –   |     |     |
| LSL+LF_6               | 36                                                                                | 12                                                                                |                                                                                   | –  | –  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | –   | –   | –   | –   | –   |     |     |
| LSL+LF_8               | 39,5                                                                              | 12                                                                                |                                                                                   | –  | –  | –  | –  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | –   | –   | –   | –   | –   |     |     |
| LSL+LF_10              | 39,5                                                                              | 12                                                                                |                                                                                   | –  | –  | –  | –  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | X   | X   | X   | (X) | (X) | –   | –   | –   |     |     |
| LSL+LF_12              | 39,5                                                                              | 12                                                                                |                                                                                   | –  | –  | –  | –  | –  | –  | –   | –   | –   | –   | –   | X   | X                                   | X   | X   | X   | X   | (X) | (X) | –   | –   | –   |     |     |
| LSL+LF_14              | 42                                                                                | 12, 18, 24                                                                        |                                                                                   | –  | –  | X  | X  | X  | X  | X   | X   | X   | X   | X   | X   | X                                   | X   | (X) | (X) | (X) | (X) | (X) | –   | –   | –   |     |     |

X without assisting equipment · ohne Zusatzausrüstung · sans équipement aditionnel · senza attrezzatura di supporto ·  
sin equipamiento de asistencia · sem equipamento auxiliar · без вспомогательного оборудования

(X) with flex frame · mit Flex Frame Verstellrahmen · avec option Flex Frame · con Flex Frame · con Flex Frame · com Flex Frame ·  
с системой Flex Frame

o only SWSL\_3/LVSL\_3 · nur SWSL\_3/LVSL\_3 · SWSL\_3/LVSL\_3 uniquement · solo SWSL\_3/LVSL\_3 · solo SWSL\_3/LVSL\_3 ·  
apenas SWSL\_3/LVSL\_3 · только SWSL\_3/LVSL\_3

The amount of Superlift counterweight required for erecting the boom system depends on the configuration and the Superlift radius.

Die Menge des zum Aufrichten erforderlichen Superliftgegengewichts ist abhängig von Konfiguration und Superliftradius.

La valeur du contrepoids Superlift nécessaire au montage du système de flèche dépend de la configuration et du rayon Superlift.

La quantità di contrappeso Superlift richiesta per l'allestimento del braccio dipende dalla configurazione e dallo sbraccio del sistema Superlift.

La cantidad de contrapeso Superlift requerido para erigir el sistema de pluma depende de la configuración y el radio Superlift.

A quantidade de contrapesos do Superlift necessária para levantar o sistema da lança depende da configuração e do raio do Superlift.

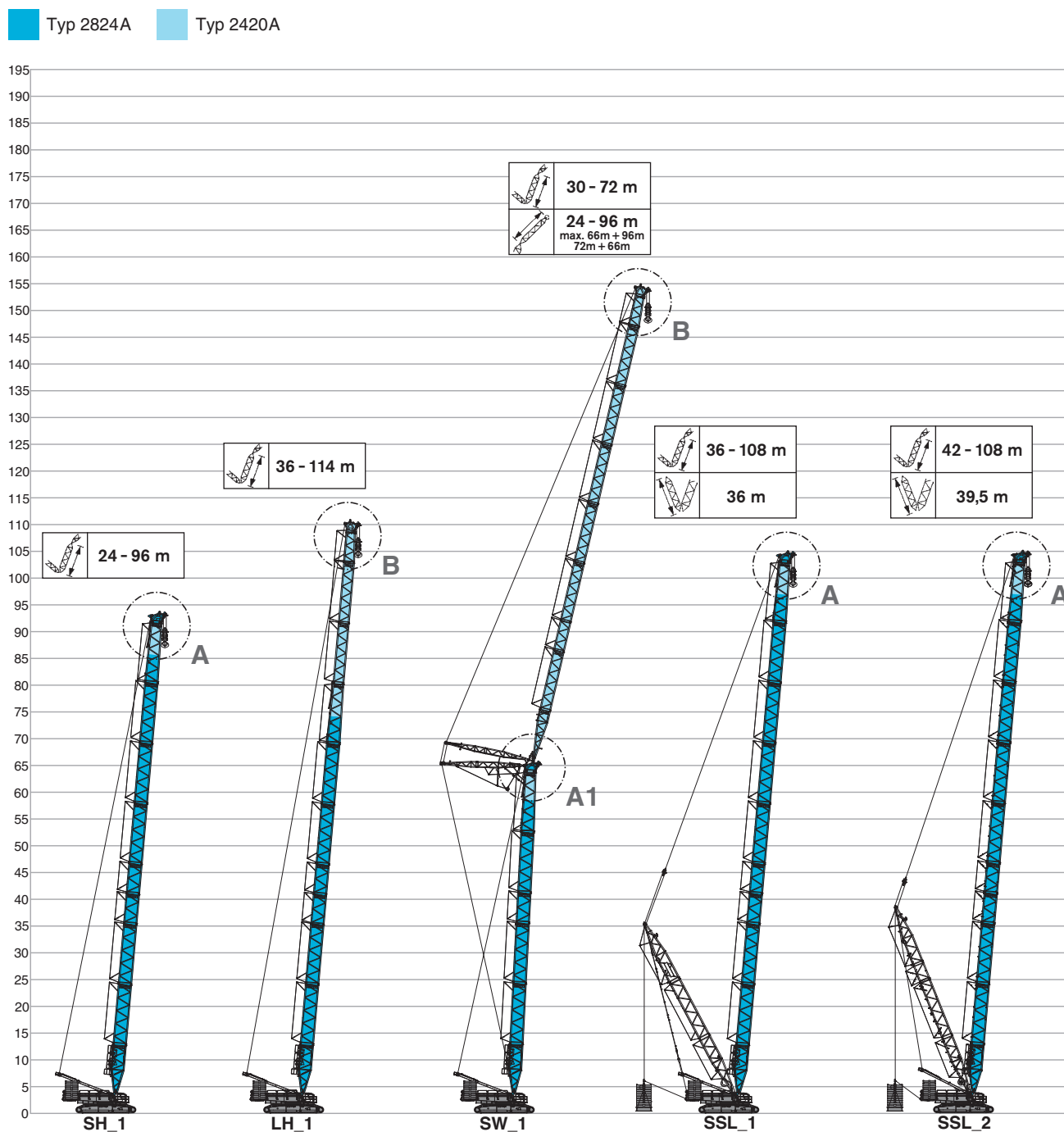
Количество и вес противовесов Superlift, необходимых для установки системы стрелы, зависит от выбранной конфигурации и радиуса Superlift.

# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

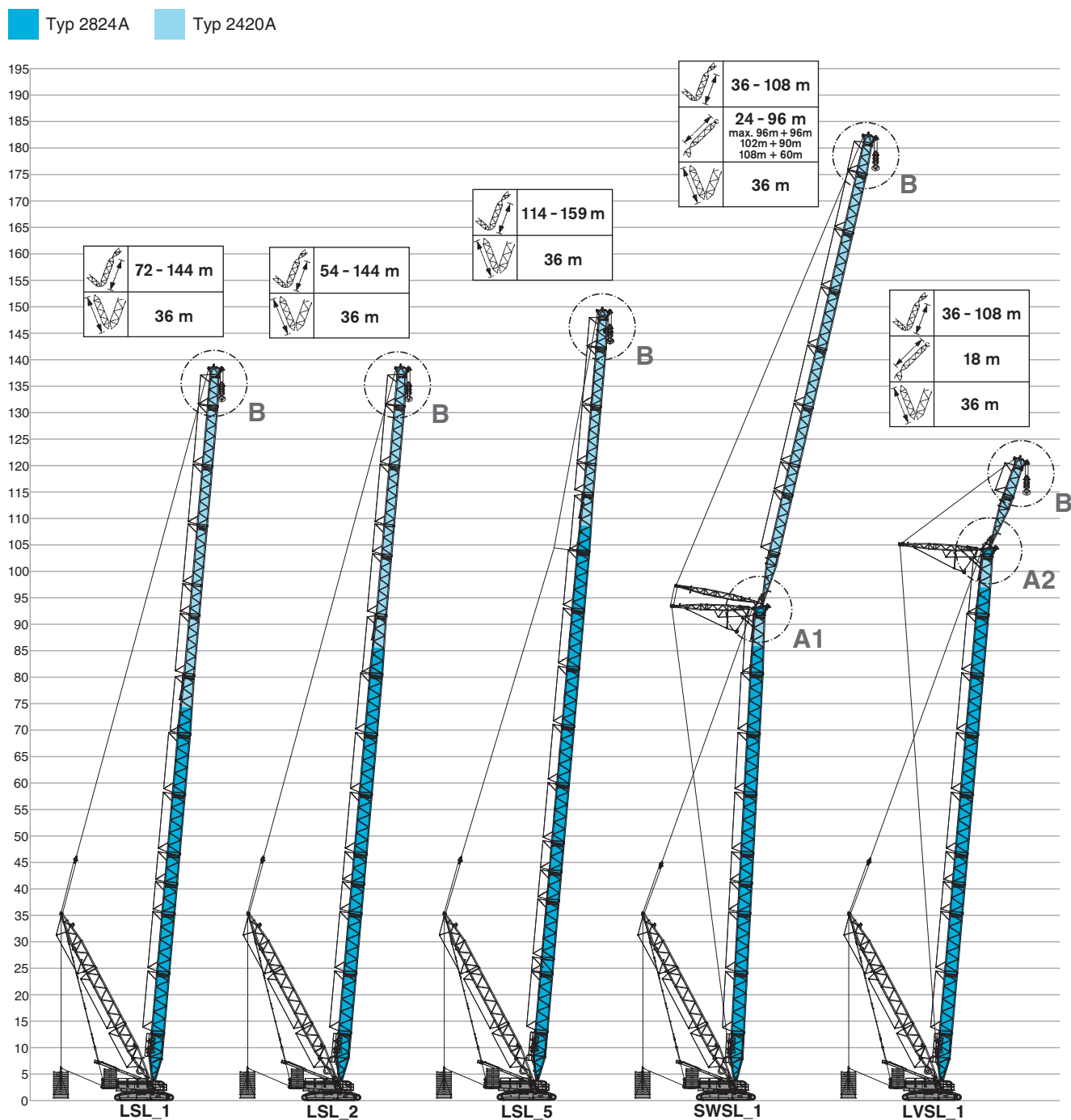


# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы





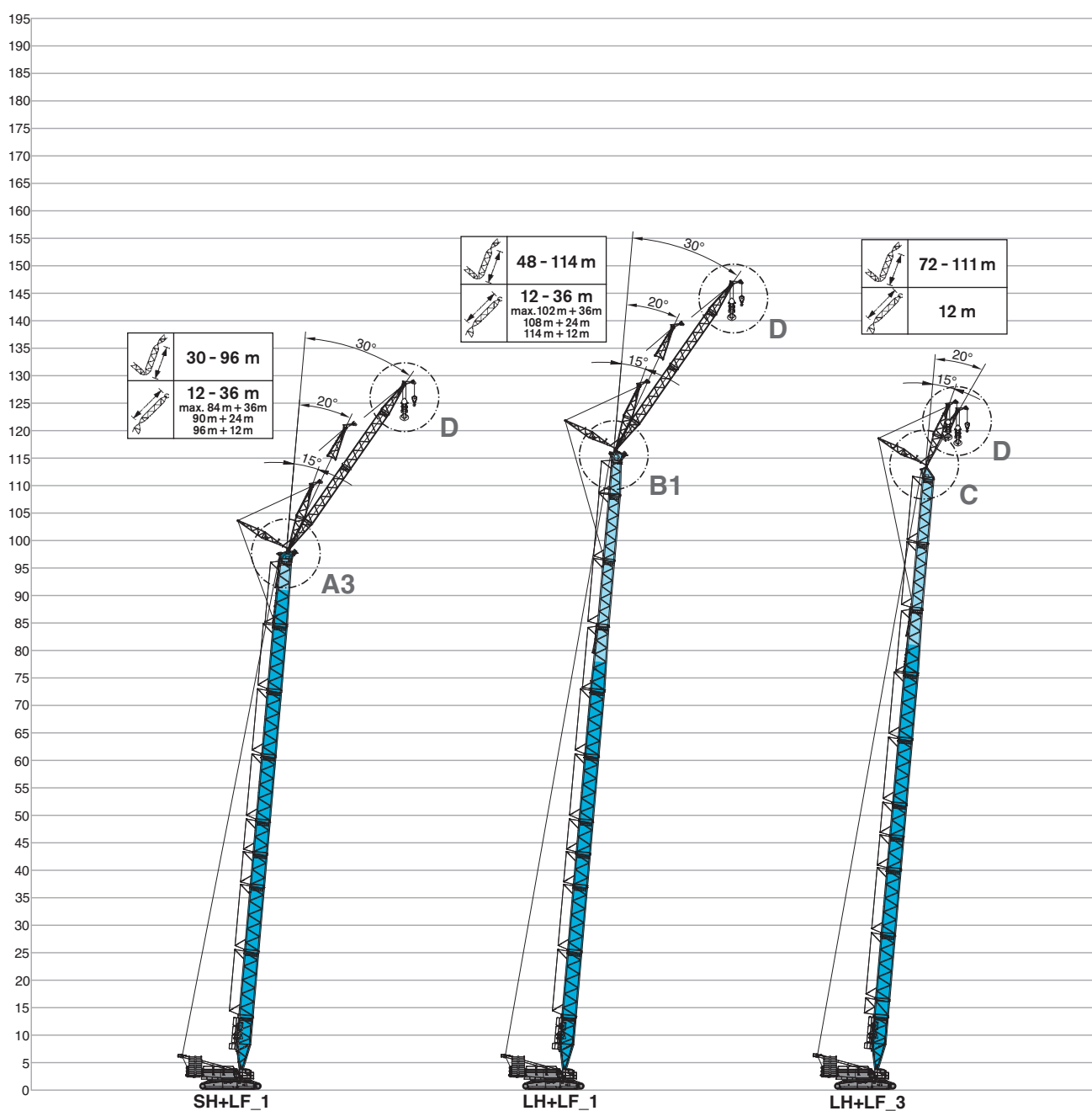
# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

Typ 2824A Typ 2420A

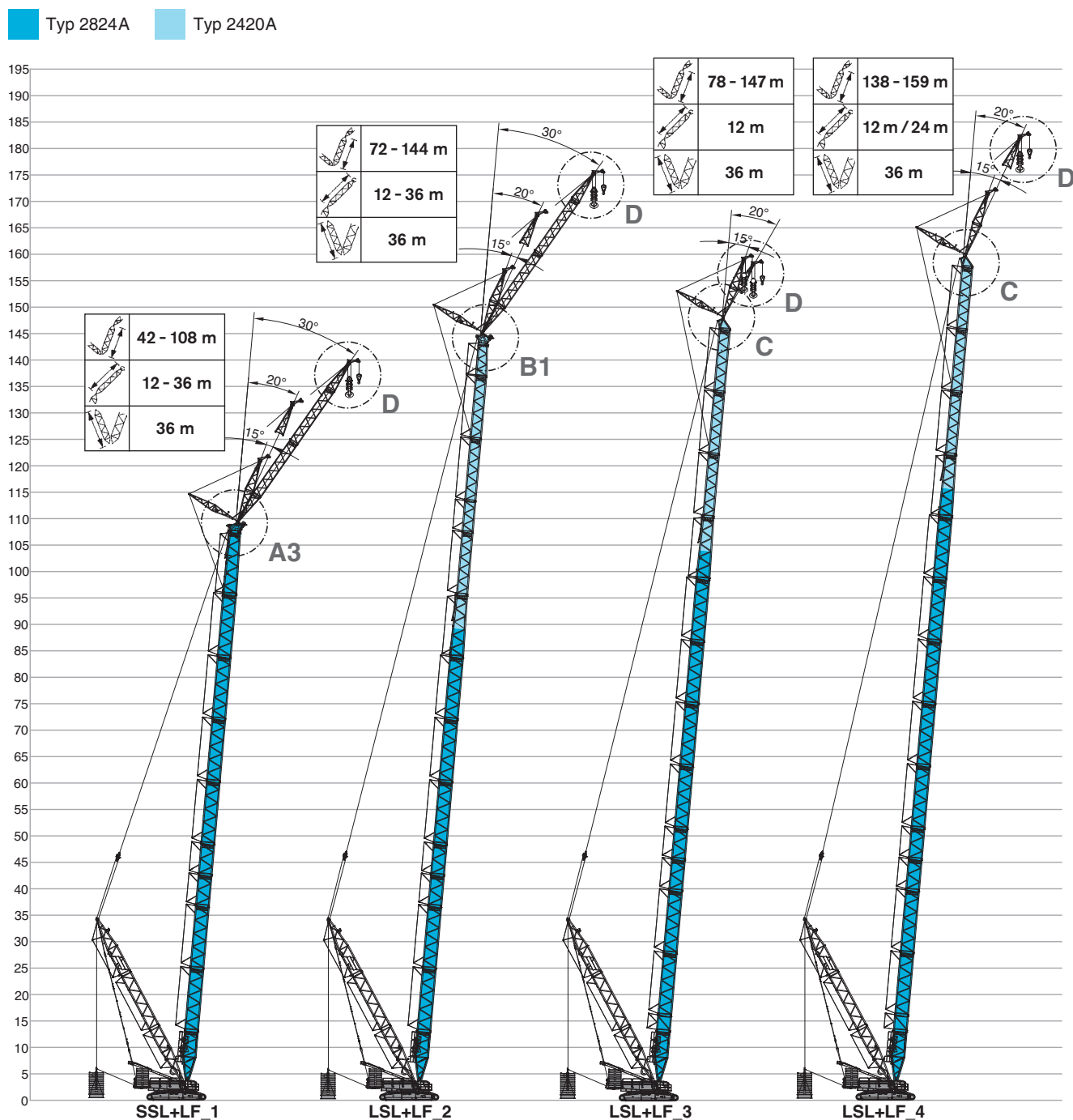


# Specifications

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы



# Specifications

BoomBooster

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

**Boom system type 3330A** in combination with extended SL mast (39.5 m or 42 m); 2824A and 2420A with slide-in function.

**Boom-System Typ 3330A** in Kombination mit verlängertem SL-Mast (39,5 m bzw. 42 m); 2824A und 2420A einschiebbar.

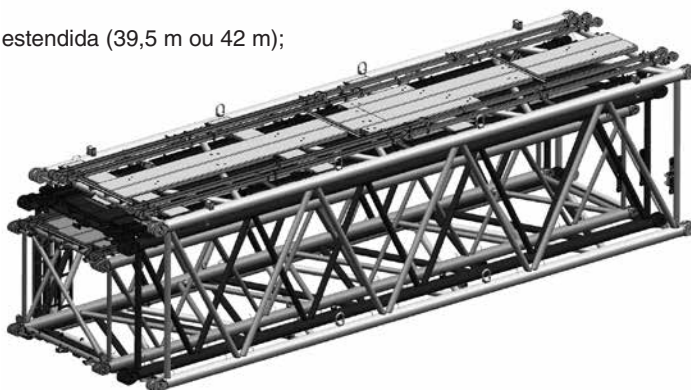
**Système de flèche 3330A** avec mât SL étendu (39,5 m ou 42 m) ; système de flèche 2824A et 2420A avec dispositif coulissant.

**Braccio tipo 3330A** in combinazione con il montante SL esteso (39,5 m o 42 m); 2824A e 2420A completi di funzione di scorrimento.

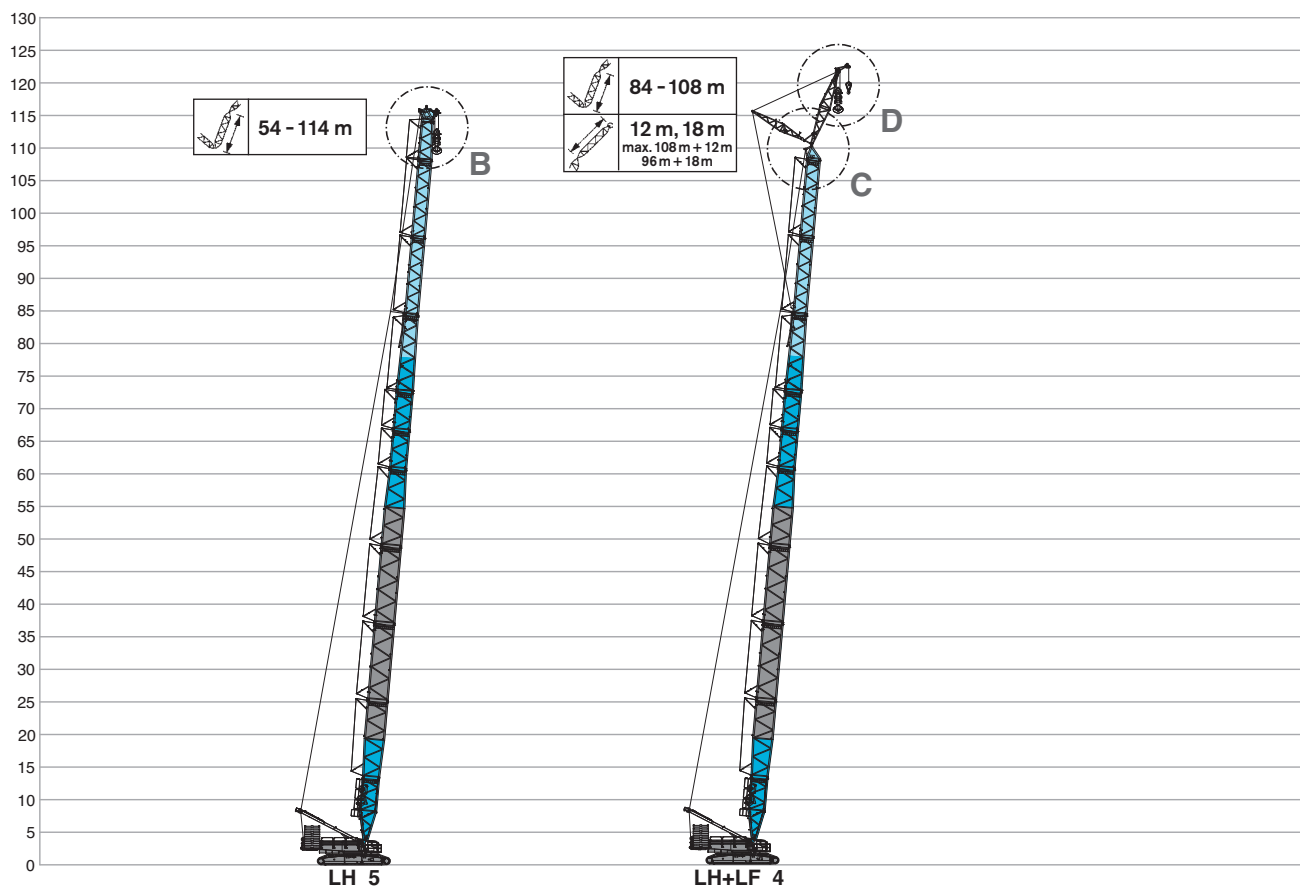
**Sistema de pluma tipo 3330A** en combinación con mástil SL extendido (39,5 m o 42 m); 2824A y 2420A con función insertable.

**Sistema de lança tipo 3330A** em conjunto com torre do SL estendida (39,5 m ou 42 m); 2824A e 2420A com função de encaixe.

**Тип системы стрелы 3330A** в сочетании с мачтой SL с удлинителем (39,5 или 42 м); 2824A и 2420A с функцией выдвижения.



Typ 3330A    Typ 2420A    Typ 2824A



# Specifications

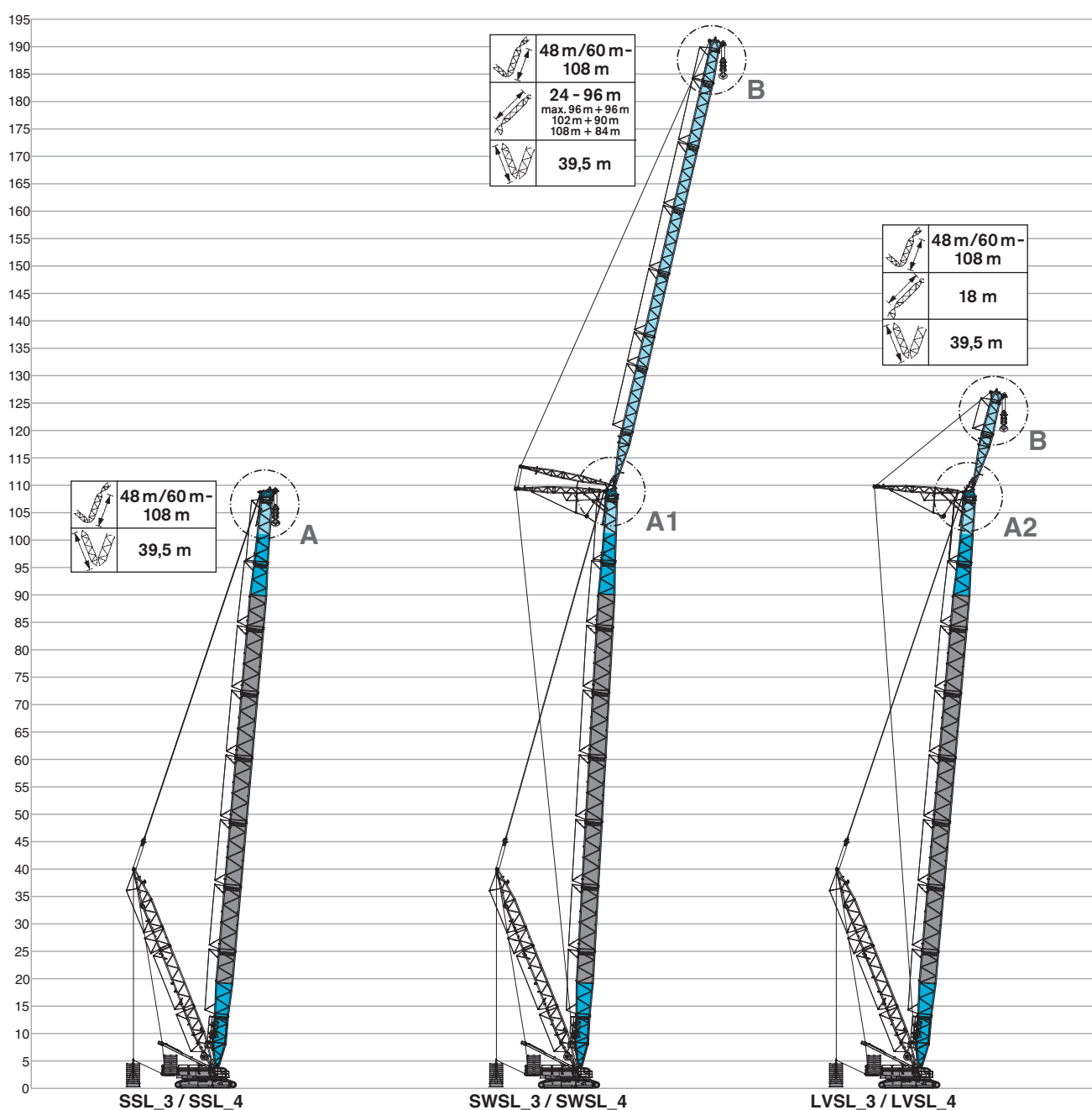
BoomBooster

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы

Typ 3330A Typ 2420A Typ 2824A



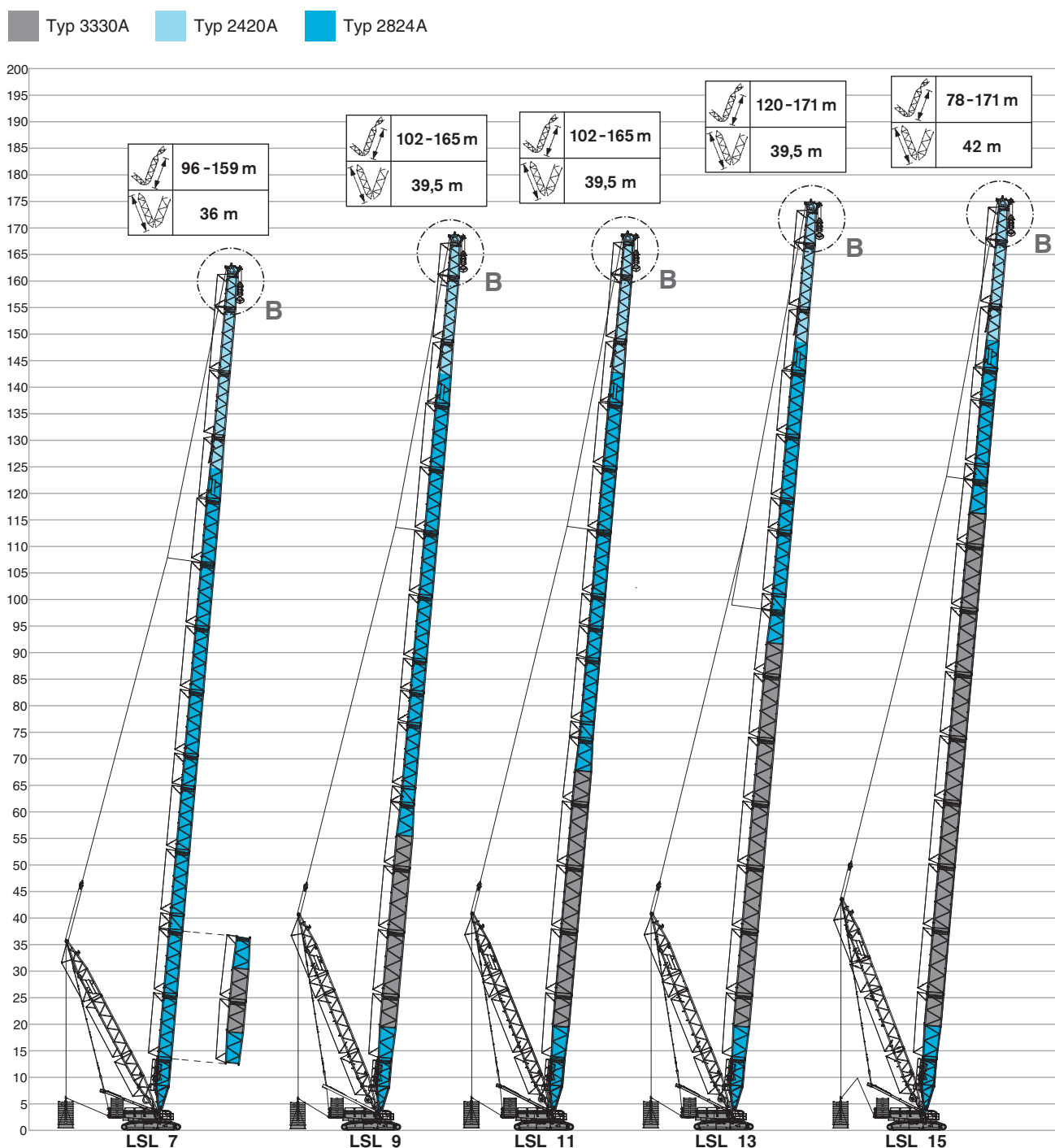
# Specifications

BoomBooster

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы



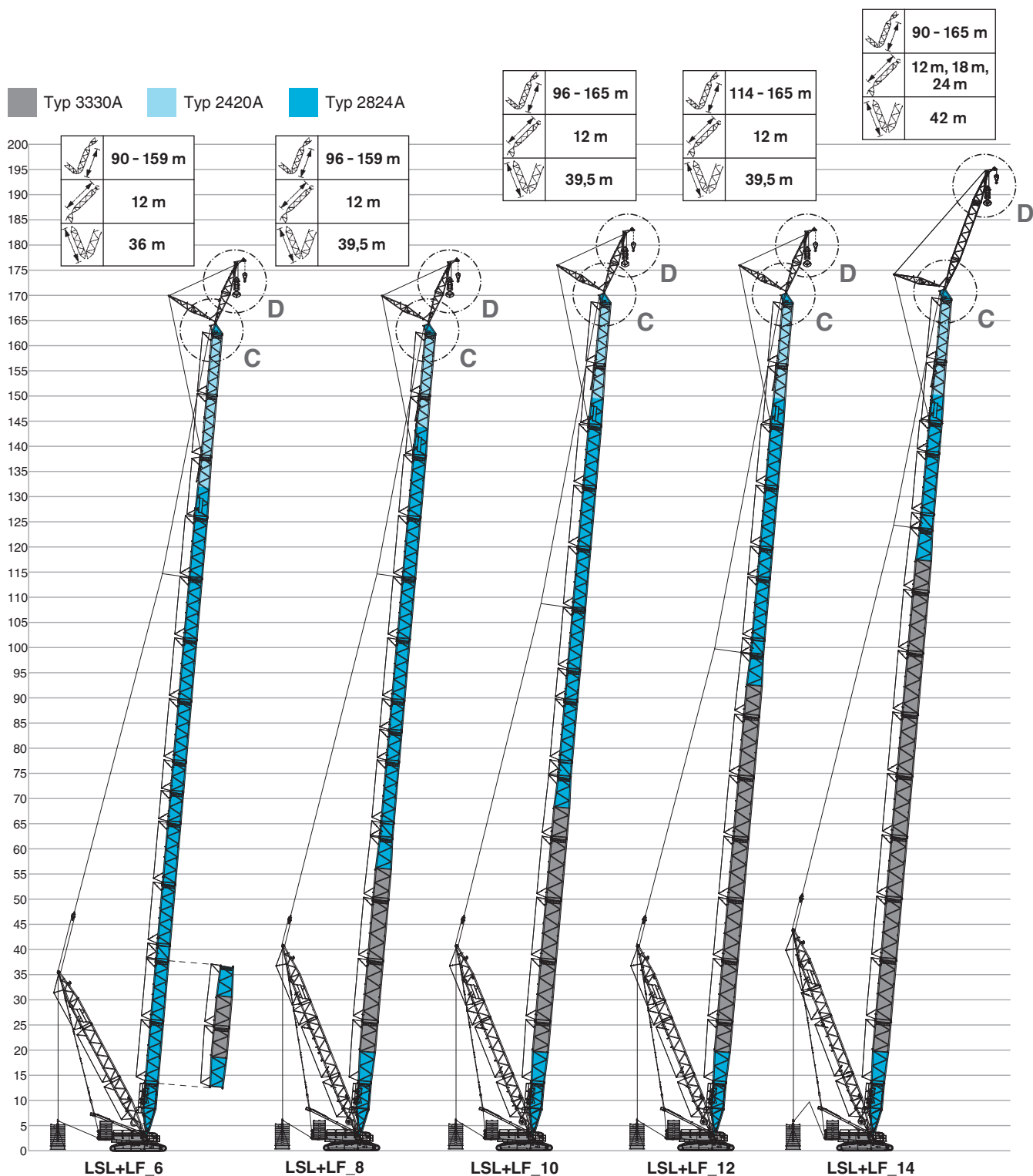
# Specifications

BoomBooster

Technische Daten · Caractéristiques · Dati tecnici ·

Datos técnicos · Especificações · Технические характеристики

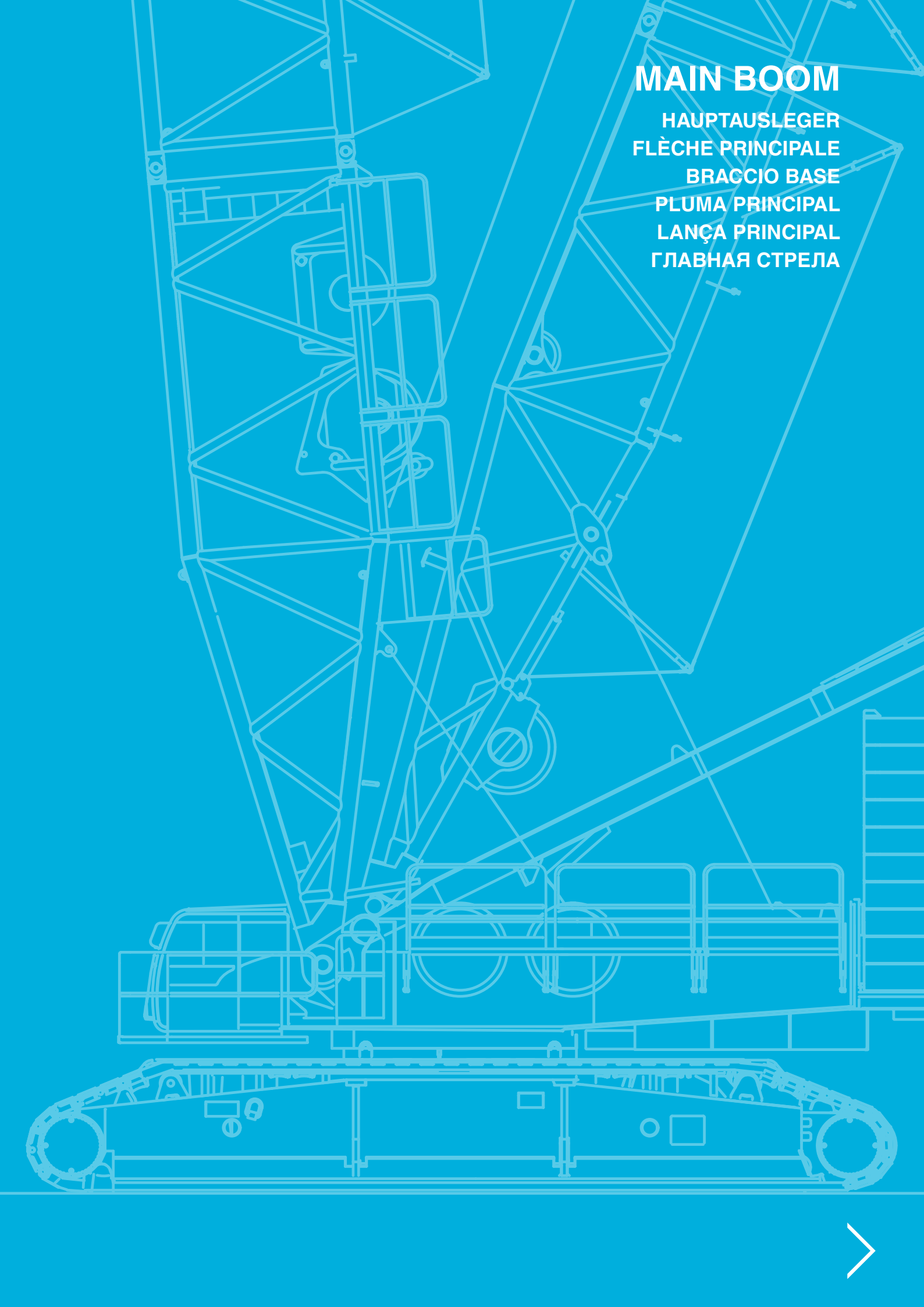
Boom Combinations · Ausleger-Kombinationen · Combinaisons de flèche · Combinazioni braccio ·  
Combinaciones de pluma · Combinações de lanças · Комбинации стрелы



## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания



A detailed white line drawing on a blue background showing the complex rigging of a sailing ship. The central focus is the main boom, which is a long, angled spar that supports the main sail. It is connected to the mast at the top and runs down towards the deck. Various pulleys, blocks, and ropes are shown, illustrating the mechanical system used to raise and lower the sails. The drawing is technical and precise, showing the structural details of the rigging.

# MAIN BOOM

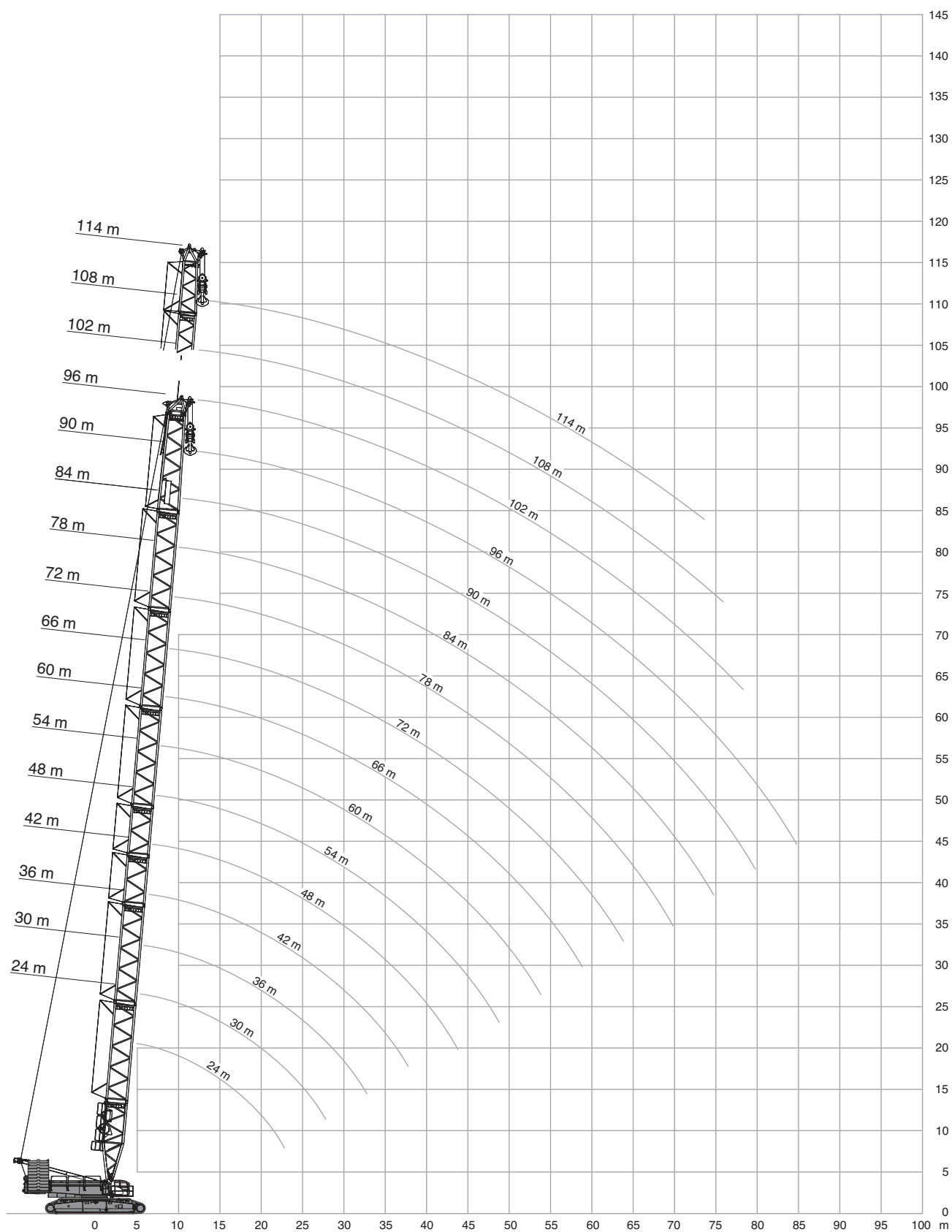
HAUPTAUSLEGER  
FLÈCHE PRINCIPALE  
BRACCIO BASE  
PLUMA PRINCIPAL  
LANÇA PRINCIPAL  
ГЛАВНАЯ СТРЕЛА



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH, LH



# Operation

SH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  |       |  8,40 m |       |  9.8 m/s |       | 360°  |       | EN13000 |       |       |       |       |       |                                                                                     |                                                                                     |
|-----------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| SH_1                                                                              |       |                                                                                          |       |                                                                                           |       |       |       |         |       |       |       |       |       |                                                                                     |  |
|  | 24 m  | 30 m                                                                                     | 36 m  | 42 m                                                                                      | 48 m  | 54 m  | 60 m  | 66 m    | 72 m  | 78 m  | 84 m  | 90 m  | 96 m  |  |                                                                                     |
| m                                                                                 | t     | t                                                                                        | t     | t                                                                                         | t     | t     | t     | t       | t     | t     | t     | t     | t     | m                                                                                   |                                                                                     |
| 5,5                                                                               | 634,0 | -                                                                                        | -     | -                                                                                         | -     | -     | -     | -       | -     | -     | -     | -     | -     | 5,5                                                                                 |                                                                                     |
| 6                                                                                 | 598,0 | 595,0                                                                                    | -     | -                                                                                         | -     | -     | -     | -       | -     | -     | -     | -     | -     | 6                                                                                   |                                                                                     |
| 7                                                                                 | 537,0 | 534,0                                                                                    | 531,0 | 490,0                                                                                     | -     | -     | -     | -       | -     | -     | -     | -     | -     | 7                                                                                   |                                                                                     |
| 8                                                                                 | 479,0 | 477,0                                                                                    | 451,0 | 419,0                                                                                     | 391,0 | 366,0 | -     | -       | -     | -     | -     | -     | -     | 8                                                                                   |                                                                                     |
| 9                                                                                 | 423,0 | 418,0                                                                                    | 390,0 | 365,0                                                                                     | 343,0 | 323,0 | 304,0 | -       | -     | -     | -     | -     | -     | 9                                                                                   |                                                                                     |
| 10                                                                                | 379,0 | 365,0                                                                                    | 343,0 | 323,0                                                                                     | 305,0 | 288,0 | 273,0 | 259,0   | 246,0 | -     | -     | -     | -     | 10                                                                                  |                                                                                     |
| 11                                                                                | 334,0 | 326,5                                                                                    | 309,5 | 292,5                                                                                     | 277,0 | 262,5 | 249,0 | 237,0   | 225,5 | 214,0 | 204,0 | -     | -     | 11                                                                                  |                                                                                     |
| 12                                                                                | 289,0 | 288,0                                                                                    | 276,0 | 262,0                                                                                     | 249,0 | 237,0 | 225,0 | 215,0   | 205,0 | 197,0 | 188,0 | 181,0 | 173,0 | 12                                                                                  |                                                                                     |
| 14                                                                                | 225,0 | 225,0                                                                                    | 224,0 | 219,0                                                                                     | 209,0 | 200,0 | 191,0 | 183,0   | 175,0 | 168,0 | 161,0 | 155,0 | 149,0 | 14                                                                                  |                                                                                     |
| 16                                                                                | 184,0 | 183,0                                                                                    | 182,0 | 181,0                                                                                     | 179,0 | 172,0 | 164,0 | 158,0   | 151,0 | 146,0 | 140,0 | 135,0 | 130,0 | 16                                                                                  |                                                                                     |
| 18                                                                                | 154,0 | 153,0                                                                                    | 152,0 | 151,0                                                                                     | 150,0 | 149,0 | 144,0 | 139,0   | 133,0 | 128,0 | 123,0 | 119,0 | 114,0 | 18                                                                                  |                                                                                     |
| 20                                                                                | 133,0 | 132,0                                                                                    | 130,0 | 129,0                                                                                     | 128,0 | 127,0 | 126,0 | 123,0   | 117,0 | 114,0 | 109,0 | 106,0 | 101,0 | 20                                                                                  |                                                                                     |
| 22                                                                                | 116,0 | 115,0                                                                                    | 114,0 | 112,0                                                                                     | 111,0 | 110,0 | 109,0 | 109,0   | 105,0 | 102,0 | 97,5  | 95,0  | 90,5  | 22                                                                                  |                                                                                     |
| 23                                                                                | 109,0 | 108,0                                                                                    | 107,0 | 105,5                                                                                     | 104,5 | 103,5 | 102,2 | 102,2   | 99,5  | 96,7  | 92,5  | 90,2  | 86,0  | 23                                                                                  |                                                                                     |
| 24                                                                                | -     | 101,0                                                                                    | 100,0 | 99,0                                                                                      | 98,0  | 97,0  | 95,5  | 95,5    | 94,0  | 91,5  | 87,5  | 85,5  | 81,5  | 24                                                                                  |                                                                                     |
| 26                                                                                | -     | 91,0                                                                                     | 89,5  | 88,0                                                                                      | 87,0  | 85,5  | 84,5  | 84,0    | 83,0  | 82,5  | 79,0  | 77,0  | 73,5  | 26                                                                                  |                                                                                     |
| 28                                                                                | -     | 82,0                                                                                     | 80,5  | 79,0                                                                                      | 77,5  | 76,5  | 75,5  | 75,0    | 73,5  | 73,0  | 71,5  | 70,0  | 66,5  | 28                                                                                  |                                                                                     |
| 30                                                                                | -     | -                                                                                        | 73,0  | 71,0                                                                                      | 70,0  | 68,5  | 67,5  | 67,0    | 66,0  | 65,0  | 64,0  | 63,5  | 60,5  | 30                                                                                  |                                                                                     |
| 33                                                                                | -     | -                                                                                        | 63,5  | 62,0                                                                                      | 60,6  | 59,5  | 58,1  | 57,6    | 56,0  | 55,5  | 54,5  | 54,5  | 52,6  | 33                                                                                  |                                                                                     |
| 34                                                                                | -     | -                                                                                        | -     | 59,0                                                                                      | 57,5  | 56,5  | 55,0  | 54,5    | 53,5  | 52,5  | 51,5  | 51,5  | 50,0  | 34                                                                                  |                                                                                     |
| 38                                                                                | -     | -                                                                                        | -     | 50,0                                                                                      | 48,7  | 47,3  | 46,0  | 45,4    | 44,0  | 43,3  | 41,8  | 41,5  | 40,2  | 38                                                                                  |                                                                                     |
| 42                                                                                | -     | -                                                                                        | -     | -                                                                                         | 41,6  | 40,1  | 38,5  | 37,7    | 36,1  | 35,3  | 33,8  | 33,5  | 32,1  | 42                                                                                  |                                                                                     |
| 44                                                                                | -     | -                                                                                        | -     | -                                                                                         | 38,6  | 37,1  | 35,3  | 34,4    | 32,9  | 32,1  | 30,6  | 30,3  | 28,9  | 44                                                                                  |                                                                                     |
| 46                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | 34,1  | 32,3  | 31,5    | 29,7  | 29,0  | 27,4  | 27,1  | 25,7  | 46                                                                                  |                                                                                     |
| 49                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | 30,4  | 28,5  | 27,6    | 25,8  | 25,1  | 23,4  | 23,0  | 21,7  | 49                                                                                  |                                                                                     |
| 50                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | 27,3  | 26,3    | 24,5  | 23,8  | 22,2  | 21,8  | 20,4  | 50                                                                                  |                                                                                     |
| 54                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | 23,2  | 22,1    | 20,2  | 19,4  | 17,8  | 17,4  | 15,9  | 54                                                                                  |                                                                                     |
| 58                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | 18,6    | 16,6  | 15,8  | 14,1  | 13,7  | 12,2  | 58                                                                                  |                                                                                     |
| 59                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | 17,8    | 15,8  | 15,0  | 13,3  | 12,9  | 11,3  | 59                                                                                  |                                                                                     |
| 62                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | -       | 13,6  | 12,7  | 11,0  | 10,5  | 9,0   | 62                                                                                  |                                                                                     |
| 64                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | -       | 12,3  | 11,4  | 9,6   | 9,1   | 7,6   | 64                                                                                  |                                                                                     |
| 66                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | -       | -     | 10,1  | 8,3   | 7,8   | 6,2   | 66                                                                                  |                                                                                     |
| 67                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | -       | -     | 9,5   | 7,7   | 7,2   | 5,6   | 67                                                                                  |                                                                                     |
| 70                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | -       | -     | 7,9   | 5,9   | 5,5   | -     | 70                                                                                  |                                                                                     |
| 71                                                                                | -     | -                                                                                        | -     | -                                                                                         | -     | -     | -     | -       | -     | -     | 5,4   | -     | -     | 71                                                                                  |                                                                                     |

 185 t 205 t  
 30 t 50 t

# Operation

SH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   8,40 m  9.8 m/s 360° EN13000 </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| SH_1                                                                                                                                                                                                                                                                                           |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|                                                                                                                                                                                                                                                                                                | 24 m  | 30 m  | 36 m  | 42 m  | 48 m  | 54 m  | 60 m  | 66 m  | 72 m  | 78 m  | 84 m  | 90 m  | 96 m  |     |
| m                                                                                                                                                                                                                                                                                              | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m   |
| 5,5                                                                                                                                                                                                                                                                                            | 625,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 5,5 |
| 6                                                                                                                                                                                                                                                                                              | 574,0 | 577,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 6   |
| 7                                                                                                                                                                                                                                                                                              | 512,0 | 463,0 | 423,0 | 388,0 | -     | -     | -     | -     | -     | -     | -     | -     | -     | 7   |
| 8                                                                                                                                                                                                                                                                                              | 420,0 | 386,0 | 357,0 | 331,0 | 308,0 | 288,0 | -     | -     | -     | -     | -     | -     | -     | 8   |
| 9                                                                                                                                                                                                                                                                                              | 356,0 | 331,0 | 308,0 | 288,0 | 270,0 | 254,0 | 239,0 | -     | -     | -     | -     | -     | -     | 9   |
| 10                                                                                                                                                                                                                                                                                             | 308,0 | 288,0 | 270,0 | 254,0 | 239,0 | 226,0 | 213,0 | 202,0 | 192,0 | -     | -     | -     | -     | 10  |
| 11                                                                                                                                                                                                                                                                                             | 267,5 | 257,5 | 243,0 | 229,5 | 216,5 | 205,0 | 194,0 | 184,5 | 175,5 | 166,0 | 158,0 | -     | -     | 11  |
| 12                                                                                                                                                                                                                                                                                             | 227,0 | 227,0 | 216,0 | 205,0 | 194,0 | 184,0 | 175,0 | 167,0 | 159,0 | 152,0 | 144,0 | 139,0 | 132,0 | 12  |
| 14                                                                                                                                                                                                                                                                                             | 177,0 | 176,0 | 175,0 | 170,0 | 162,0 | 155,0 | 147,0 | 141,0 | 134,0 | 129,0 | 123,0 | 118,0 | 112,0 | 14  |
| 16                                                                                                                                                                                                                                                                                             | 143,0 | 142,0 | 142,0 | 140,0 | 138,0 | 132,0 | 126,0 | 121,0 | 115,0 | 111,0 | 106,0 | 102,0 | 97,5  | 16  |
| 18                                                                                                                                                                                                                                                                                             | 120,0 | 119,0 | 118,0 | 117,0 | 116,0 | 115,0 | 109,0 | 105,0 | 100,0 | 97,0  | 92,0  | 89,5  | 85,0  | 18  |
| 20                                                                                                                                                                                                                                                                                             | 103,0 | 101,0 | 100,0 | 99,5  | 98,5  | 97,5  | 96,5  | 92,5  | 88,0  | 85,0  | 81,0  | 78,5  | 74,5  | 20  |
| 22                                                                                                                                                                                                                                                                                             | 89,5  | 88,5  | 87,0  | 85,5  | 85,0  | 84,0  | 83,0  | 82,0  | 78,0  | 75,5  | 71,5  | 69,5  | 65,5  | 22  |
| 23                                                                                                                                                                                                                                                                                             | 84,0  | 83,0  | 81,7  | 80,2  | 79,5  | 78,5  | 77,5  | 76,7  | 73,7  | 71,2  | 67,5  | 65,7  | 62,0  | 23  |
| 24                                                                                                                                                                                                                                                                                             | -     | 77,5  | 76,5  | 75,0  | 74,0  | 73,0  | 72,0  | 71,5  | 69,5  | 67,0  | 63,5  | 62,0  | 58,5  | 24  |
| 26                                                                                                                                                                                                                                                                                             | -     | 69,0  | 67,5  | 66,0  | 65,0  | 64,0  | 63,0  | 62,5  | 61,0  | 60,0  | 56,5  | 55,0  | 52,0  | 26  |
| 28                                                                                                                                                                                                                                                                                             | -     | 62,0  | 60,5  | 59,0  | 58,0  | 56,5  | 55,5  | 55,0  | 53,5  | 53,0  | 50,5  | 49,6  | 46,4  | 28  |
| 30                                                                                                                                                                                                                                                                                             | -     | -     | 54,5  | 53,0  | 51,5  | 50,5  | 49,4  | 48,9  | 47,6  | 47,1  | 45,7  | 44,5  | 41,5  | 30  |
| 33                                                                                                                                                                                                                                                                                             | -     | -     | 47,3  | 45,8  | 44,4  | 43,2  | 41,9  | 41,2  | 39,5  | 38,9  | 37,6  | 37,2  | 35,2  | 33  |
| 34                                                                                                                                                                                                                                                                                             | -     | -     | -     | 43,4  | 42,1  | 40,8  | 39,4  | 38,7  | 37,2  | 36,5  | 35,0  | 34,8  | 33,1  | 34  |
| 38                                                                                                                                                                                                                                                                                             | -     | -     | -     | 36,3  | 34,6  | 33,0  | 31,4  | 30,7  | 29,1  | 28,4  | 26,9  | 26,6  | 25,3  | 38  |
| 42                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | 28,7  | 26,9  | 25,2  | 24,4  | 22,8  | 22,0  | 20,5  | 20,2  | 18,8  | 42  |
| 44                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | 26,2  | 24,5  | 22,6  | 21,8  | 20,2  | 19,4  | 17,9  | 17,6  | 16,2  | 44  |
| 46                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | 22,1  | 20,3  | 19,4  | 17,7  | 16,9  | 15,4  | 15,1  | 13,7  | 46  |
| 49                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | 19,2  | 17,3  | 16,4  | 14,6  | 13,8  | 12,2  | 11,9  | 10,4  | 49  |
| 50                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | 16,3  | 15,4  | 13,6  | 12,8  | 11,2  | 10,9  | 9,4   | 50  |
| 54                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | 13,1  | 12,0  | 10,1  | 9,3   | 7,7   | 7,3   | 5,9   | 54  |
| 55                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | 11,3  | 9,4   | 8,5   | 6,9   | 6,5   | 5,1   | 55  |
| 57                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | 9,9   | 8,0   | 7,1   | 5,5   | 5,1   | -     | 57  |
| 58                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | 9,3   | 7,3   | 6,4   | -     | -     | -     | 58  |
| 59                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | 8,7   | 6,7   | 5,8   | -     | -     | -     | 59  |
| 60                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | -     | 6,1   | 5,2   | -     | -     | -     | 60  |
| 61                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | -     | 5,5   | -     | -     | -     | -     | 61  |

125 t 165 t

# Operation

LH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  |       |  8,40 m |       |       |       |       |       |  9.8 m/s |       |       |       |       |       | 360°  |       |       |       |       |      | EN13000                                                                             |    |
|-----------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------------------------------------------------------------------------------------|----|
|  |       | 36m                                                                                      | 42m   | 48m   | 54 m  |       | 57m   | 60 m                                                                                      |       | 63m   | 66 m  |       | 69m   | 72 m  |       | 75m   | 78 m  |       | 81m  |  |    |
|                                                                                   |       | LH_1                                                                                     |       |       | LH_5  |       | LH_1  | LH_5                                                                                      |       | LH_1  | LH_5  |       | LH_1  | LH_5  |       | LH_1  | LH_5  |       | LH_1 | LH_5                                                                                |    |
| m                                                                                 | t     | t                                                                                        | t     | t     | t     | t     | t     | t                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t                                                                                   | m  |
| 7                                                                                 | 347,0 | 347,0                                                                                    | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -                                                                                   | 7  |
| 8                                                                                 | 347,0 | 347,0                                                                                    | 347,0 | 347,0 | 347,0 | 347,0 | -     | -                                                                                         | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -                                                                                   | 8  |
| 9                                                                                 | 347,0 | 347,0                                                                                    | 347,0 | 333,0 | 347,0 | 347,0 | 314,0 | 347,0                                                                                     | 346,0 | 297,0 | 337,0 | 328,0 | -     | -     | -     | -     | -     | -     | -    | -                                                                                   | 9  |
| 10                                                                                | 347,0 | 331,0                                                                                    | 315,0 | 298,0 | 334,0 | 326,0 | 282,0 | 318,0                                                                                     | 310,0 | 268,0 | 302,0 | 295,0 | 255,0 | 288,0 | 281,0 | 243,0 | 274,0 | 268,0 | -    | -                                                                                   | 10 |
| 12                                                                                | 283,0 | 268,0                                                                                    | 258,0 | 246,0 | 273,0 | 267,0 | 234,0 | 261,0                                                                                     | 255,0 | 224,0 | 250,0 | 244,0 | 214,0 | 239,0 | 233,0 | 205,0 | 228,0 | 223,0 | -    | -                                                                                   | 12 |
| 14                                                                                | 231,0 | 225,0                                                                                    | 218,0 | 208,0 | 229,0 | 225,0 | 200,0 | 220,0                                                                                     | 216,0 | 191,0 | 211,0 | 207,0 | 184,0 | 203,0 | 198,0 | 176,0 | 194,0 | 190,0 | -    | -                                                                                   | 14 |
| 16                                                                                | 189,0 | 188,0                                                                                    | 188,0 | 180,0 | 197,0 | 193,0 | 173,0 | 190,0                                                                                     | 186,0 | 166,0 | 182,0 | 179,0 | 160,0 | 176,0 | 172,0 | 154,0 | 168,0 | 165,0 | -    | -                                                                                   | 16 |
| 18                                                                                | 159,0 | 157,0                                                                                    | 158,0 | 157,0 | 166,0 | 165,0 | 152,0 | 165,0                                                                                     | 163,0 | 146,0 | 160,0 | 157,0 | 141,0 | 154,0 | 150,0 | 136,0 | 147,0 | 144,0 | -    | -                                                                                   | 18 |
| 20                                                                                | 136,0 | 135,0                                                                                    | 136,0 | 135,0 | 142,0 | 141,0 | 134,0 | 141,0                                                                                     | 140,0 | 130,0 | 139,0 | 138,0 | 126,0 | 136,0 | 133,0 | 121,0 | 131,0 | 128,0 | -    | -                                                                                   | 20 |
| 22                                                                                | 119,0 | 118,0                                                                                    | 119,0 | 117,0 | 123,0 | 122,0 | 116,0 | 122,0                                                                                     | 121,0 | 115,0 | 121,0 | 120,0 | 113,0 | 120,0 | 118,0 | 109,0 | 117,0 | 114,0 | -    | -                                                                                   | 22 |
| 24                                                                                | 106,0 | 104,0                                                                                    | 105,0 | 103,0 | 109,0 | 108,0 | 103,0 | 108,0                                                                                     | 107,0 | 101,0 | 106,0 | 105,0 | 101,0 | 105,0 | 103,0 | 98,5  | 103,0 | 102,0 | -    | -                                                                                   | 24 |
| 26                                                                                | 94,5  | 93,0                                                                                     | 94,0  | 92,5  | 97,0  | 96,0  | 91,5  | 96,0                                                                                      | 95,0  | 90,0  | 94,0  | 93,0  | 89,5  | 93,0  | 91,5  | 88,5  | 91,0  | 90,0  | -    | -                                                                                   | 26 |
| 28                                                                                | 85,5  | 84,0                                                                                     | 84,5  | 83,0  | 87,0  | 86,0  | 82,5  | 86,0                                                                                      | 85,0  | 80,5  | 84,0  | 83,0  | 80,0  | 83,0  | 81,5  | 79,0  | 81,0  | 80,0  | -    | -                                                                                   | 28 |
| 30                                                                                | 78,0  | 76,0                                                                                     | 77,0  | 75,5  | 78,5  | 77,5  | 74,5  | 77,5                                                                                      | 76,5  | 73,0  | 75,5  | 74,5  | 72,0  | 74,5  | 73,0  | 71,0  | 72,5  | 71,5  | -    | -                                                                                   | 30 |
| 33                                                                                | 68,5  | 67,0                                                                                     | 67,6  | 66,1  | 68,7  | 67,3  | 65,1  | 67,3                                                                                      | 66,3  | 63,2  | 65,7  | 64,3  | 62,6  | 64,3  | 62,8  | 61,6  | 62,0  | 61,2  | -    | -                                                                                   | 33 |
| 34                                                                                | -     | 64,0                                                                                     | 64,5  | 63,0  | 65,5  | 64,0  | 62,0  | 64,0                                                                                      | 63,0  | 60,0  | 62,5  | 61,0  | 59,5  | 61,0  | 59,5  | 58,5  | 59,0  | 58,0  | -    | -                                                                                   | 34 |
| 38                                                                                | -     | 54,5                                                                                     | 55,0  | 53,5  | 55,0  | 54,0  | 52,5  | 54,0                                                                                      | 53,0  | 50,5  | 52,0  | 51,0  | 50,0  | 50,5  | 49,6  | 48,9  | 49,1  | 48,0  | -    | -                                                                                   | 38 |
| 42                                                                                | -     | -                                                                                        | 48,0  | 46,3  | 47,5  | 46,5  | 45,1  | 46,2                                                                                      | 45,2  | 43,4  | 44,3  | 43,3  | 42,6  | 42,9  | 41,4  | 41,3  | 40,7  | 39,5  | -    | -                                                                                   | 42 |
| 43                                                                                | -     | -                                                                                        | 46,5  | 44,8  | 45,9  | 44,9  | 43,5  | 44,6                                                                                      | 43,6  | 41,9  | 42,6  | 41,6  | 41,1  | 41,1  | 39,5  | 39,7  | 38,8  | 37,7  | -    | -                                                                                   | 43 |
| 46                                                                                | -     | -                                                                                        | -     | 40,5  | 41,3  | 40,2  | 39,2  | 39,9                                                                                      | 38,8  | 37,4  | 37,8  | 36,5  | 36,6  | 36,1  | 34,5  | 35,1  | 33,8  | 32,6  | -    | -                                                                                   | 46 |
| 49                                                                                | -     | -                                                                                        | -     | 36,9  | 37,5  | 36,3  | 35,5  | 36,0                                                                                      | 34,7  | 33,7  | 33,6  | 32,3  | 32,7  | 31,9  | 30,3  | 31,1  | 29,6  | 28,3  | -    | -                                                                                   | 49 |
| 50                                                                                | -     | -                                                                                        | -     | -     | -     | 35,1  | 34,3  | 34,7                                                                                      | 33,4  | 32,5  | 32,3  | 31,0  | 31,4  | 30,5  | 28,9  | 29,8  | 28,2  | 26,9  | -    | -                                                                                   | 50 |
| 51                                                                                | -     | -                                                                                        | -     | -     | -     | 34,0  | 33,3  | 33,5                                                                                      | 32,2  | 31,4  | 31,1  | 29,8  | 30,2  | 29,3  | 27,7  | 28,7  | 26,9  | 25,7  | -    | -                                                                                   | 51 |
| 54                                                                                | -     | -                                                                                        | -     | -     | -     | -     | 30,4  | 30,2                                                                                      | 28,9  | 28,2  | 27,8  | 26,4  | 27,1  | 25,9  | 24,2  | 25,4  | 23,5  | 22,2  | -    | -                                                                                   | 54 |
| 56                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | 26,9  | 26,4  | 25,9  | 24,4  | 25,2  | 23,9  | 22,2  | 23,5  | 21,5  | 20,2  | -    | -                                                                                   | 56 |
| 58                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | 24,7  | 24,0  | 22,6  | 23,4  | 22,0  | 20,3  | 21,7  | 19,5  | 18,3  | -    | -                                                                                   | 58 |
| 59                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | 23,9  | 23,1  | 21,8  | 22,6  | 21,2  | 19,4  | 20,9  | 18,6  | 17,4  | -    | -                                                                                   | 59 |
| 62                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | 19,4  | 20,4  | 18,8  | 17,0  | 18,6  | 16,2  | 14,9  | -    | -                                                                                   | 62 |
| 64                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | 19,1  | 17,3  | 15,6  | 17,2  | 14,7  | 13,4  | -    | -                                                                                   | 64 |
| 66                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -     | 14,3  | 15,9  | 13,3  | 12,0  | -    | -                                                                                   | 66 |
| 67                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -     | 13,6  | 15,3  | 12,7  | 11,3  | -    | -                                                                                   | 67 |
| 69                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -     | -     | 14,2  | 11,5  | 10,1  | -    | -                                                                                   | 69 |
| 70                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -     | -     | -     | -     | 9,6   | -    | -                                                                                   | 70 |
| 72                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -     | -     | -     | -     | 8,5   | -    | -                                                                                   | 72 |

|                                                                                     |       |       |       |
|-------------------------------------------------------------------------------------|-------|-------|-------|
|  | 185 t | 205 t | 225 t |
|  | 30 t  | 50 t  |       |

# Operation

LH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  +  |       |  8,40 m |       |       |       |  9.8 m/s |       |       |       | 360°  |       |       |       | EN13000 |       |       |       |       |   |      |   |       |   |                                                                                     |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|---|------|---|-------|---|-------------------------------------------------------------------------------------|--|
|                                                                                      |       | 84 m                                                                                     |       | 87m   |       | 90 m                                                                                      |       | 93m   |       | 96 m  |       | 99m   |       | 102 m   |       | 105m  |       | 108 m |   | 111m |   | 114 m |   |  |  |
|                                                                                      |       | LH_1                                                                                     |       | LH_5  |       | LH_1                                                                                      |       | LH_5  |       | LH_1  |       | LH_5  |       | LH_1    |       | LH_5  |       | LH_1  |   | LH_5 |   | LH_1  |   | LH_5                                                                                |  |
| m                                                                                                                                                                     | t     | t                                                                                        | t     | t     | t     | t                                                                                         | t     | t     | t     | t     | t     | t     | t     | t       | t     | t     | t     | t     | t | t    | t | t     | t | m                                                                                   |  |
| 11                                                                                                                                                                    | 207,0 | 239,0                                                                                    | 233,0 | 191,0 | 231,0 | -                                                                                         | -     | -     | -     | -     | -     | -     | -     | -       | -     | -     | -     | -     | - | -    | - | -     | - | 11                                                                                  |  |
| 12                                                                                                                                                                    | 197,0 | 219,0                                                                                    | 214,0 | 187,0 | 212,0 | 208,0                                                                                     | 160,0 | 204,0 | 199,0 | 146,0 | 195,0 | -     | -     | -       | -     | -     | -     | -     | - | -    | - | -     | - | 12                                                                                  |  |
| 13                                                                                                                                                                    | 183,5 | 203,0                                                                                    | 198,5 | 175,0 | 197,0 | 193,0                                                                                     | 157,5 | 189,5 | 185,0 | 143,5 | 181,5 | 177,0 | 135,0 | 173,0   | 156,0 | 123,0 | 147,0 | 13    |   |      |   |       |   | 13                                                                                  |  |
| 14                                                                                                                                                                    | 170,0 | 187,0                                                                                    | 183,0 | 163,0 | 182,0 | 178,0                                                                                     | 155,0 | 175,0 | 171,0 | 141,0 | 168,0 | 164,0 | 134,0 | 161,0   | 153,0 | 122,0 | 144,0 | 14    |   |      |   |       |   | 14                                                                                  |  |
| 16                                                                                                                                                                    | 149,0 | 162,0                                                                                    | 158,0 | 143,0 | 158,0 | 155,0                                                                                     | 138,0 | 152,0 | 149,0 | 132,0 | 146,0 | 143,0 | 127,0 | 140,0   | 140,0 | 119,0 | 137,0 | 16    |   |      |   |       |   | 16                                                                                  |  |
| 18                                                                                                                                                                    | 132,0 | 142,0                                                                                    | 139,0 | 126,0 | 139,0 | 136,0                                                                                     | 122,0 | 134,0 | 131,0 | 117,0 | 128,0 | 126,0 | 112,0 | 123,0   | 124,0 | 108,0 | 122,0 | 18    |   |      |   |       |   | 18                                                                                  |  |
| 20                                                                                                                                                                    | 118,0 | 126,0                                                                                    | 123,0 | 113,0 | 124,0 | 121,0                                                                                     | 109,0 | 119,0 | 116,0 | 105,0 | 114,0 | 111,0 | 101,0 | 109,0   | 110,0 | 96,5  | 108,0 | 20    |   |      |   |       |   | 20                                                                                  |  |
| 22                                                                                                                                                                    | 106,0 | 112,0                                                                                    | 110,0 | 102,0 | 111,0 | 108,0                                                                                     | 98,5  | 106,0 | 104,0 | 94,5  | 102,0 | 100,0 | 90,5  | 98,0    | 99,0  | 86,5  | 97,0  | 22    |   |      |   |       |   | 22                                                                                  |  |
| 24                                                                                                                                                                    | 96,0  | 101,0                                                                                    | 99,0  | 92,0  | 100,0 | 97,5                                                                                      | 89,0  | 96,0  | 93,5  | 85,5  | 91,5  | 89,5  | 82,0  | 88,0    | 89,0  | 78,5  | 87,5  | 24    |   |      |   |       |   | 24                                                                                  |  |
| 26                                                                                                                                                                    | 87,5  | 90,0                                                                                     | 89,0  | 84,0  | 90,5  | 88,5                                                                                      | 81,0  | 86,5  | 84,5  | 77,5  | 83,0  | 80,5  | 74,5  | 79,0    | 80,5  | 71,0  | 79,0  | 26    |   |      |   |       |   | 26                                                                                  |  |
| 28                                                                                                                                                                    | 79,0  | 80,0                                                                                     | 79,0  | 76,5  | 80,5  | 79,5                                                                                      | 74,0  | 78,5  | 76,5  | 71,0  | 75,0  | 73,0  | 67,5  | 71,5    | 73,0  | 64,5  | 71,5  | 28    |   |      |   |       |   | 28                                                                                  |  |
| 30                                                                                                                                                                    | 71,0  | 71,5                                                                                     | 70,5  | 69,5  | 72,0  | 71,0                                                                                      | 68,0  | 71,0  | 70,0  | 65,0  | 68,0  | 66,5  | 62,0  | 65,0    | 66,5  | 59,0  | 65,0  | 30    |   |      |   |       |   | 30                                                                                  |  |
| 34                                                                                                                                                                    | 58,5  | 58,0                                                                                     | 57,0  | 57,0  | 58,5  | 57,5                                                                                      | 56,5  | 57,5  | 56,5  | 54,5  | 55,5  | 54,5  | 52,0  | 53,5    | 55,5  | 49,3  | 54,0  | 34    |   |      |   |       |   | 34                                                                                  |  |
| 38                                                                                                                                                                    | 48,9  | 47,8                                                                                     | 46,7  | 47,4  | 48,4  | 47,3                                                                                      | 47,0  | 47,1  | 46,0  | 45,5  | 45,0  | 43,8  | 44,2  | 43,8    | 45,7  | 41,5  | 45,0  | 38    |   |      |   |       |   | 38                                                                                  |  |
| 42                                                                                                                                                                    | 41,3  | 39,2                                                                                     | 38,1  | 39,7  | 39,8  | 38,6                                                                                      | 39,2  | 38,4  | 37,3  | 37,4  | 36,3  | 35,2  | 36,4  | 35,1    | 37,0  | 34,7  | 36,3  | 42    |   |      |   |       |   | 42                                                                                  |  |
| 46                                                                                                                                                                    | 35,1  | 32,3                                                                                     | 31,1  | 33,2  | 32,8  | 31,7                                                                                      | 32,7  | 31,5  | 30,3  | 30,9  | 29,3  | 28,2  | 29,9  | 28,1    | 30,0  | 28,1  | 29,2  | 46    |   |      |   |       |   | 46                                                                                  |  |
| 50                                                                                                                                                                    | 29,7  | 26,6                                                                                     | 25,4  | 27,9  | 27,1  | 26,0                                                                                      | 27,3  | 25,7  | 24,6  | 25,5  | 23,6  | 22,4  | 24,5  | 22,3    | 24,2  | 22,6  | 23,5  | 50    |   |      |   |       |   | 50                                                                                  |  |
| 54                                                                                                                                                                    | 25,3  | 21,9                                                                                     | 20,7  | 23,4  | 22,4  | 21,2                                                                                      | 22,8  | 20,9  | 19,8  | 21,0  | 18,8  | 17,6  | 19,9  | 17,4    | 19,4  | 18,1  | 18,6  | 54    |   |      |   |       |   | 54                                                                                  |  |
| 58                                                                                                                                                                    | 21,6  | 17,9                                                                                     | 16,7  | 19,7  | 18,4  | 17,2                                                                                      | 19,0  | 16,9  | 15,7  | 17,2  | 14,7  | 13,5  | 16,1  | 13,4    | 15,3  | 14,3  | 14,5  | 58    |   |      |   |       |   | 58                                                                                  |  |
| 62                                                                                                                                                                    | 18,4  | 14,5                                                                                     | 13,2  | 16,4  | 14,9  | 13,7                                                                                      | 15,8  | 13,4  | 12,2  | 13,9  | 11,2  | 10,0  | 12,8  | 9,8     | 11,8  | 11,0  | 11,0  | 62    |   |      |   |       |   | 62                                                                                  |  |
| 66                                                                                                                                                                    | 15,7  | 11,6                                                                                     | 10,3  | 13,7  | 12,0  | 10,8                                                                                      | 13,0  | 10,4  | 9,2   | 11,1  | 8,2   | 7,0   | 10,0  | 6,8     | 8,7   | 8,1   | 7,9   | 66    |   |      |   |       |   | 66                                                                                  |  |
| 70                                                                                                                                                                    | 13,3  | 9,0                                                                                      | 7,8   | 11,3  | 9,4   | 8,2                                                                                       | 10,6  | 7,8   | 6,6   | 8,7   | 5,6   | 4,4   | 7,5   | 4,1     | 6,1   | 5,6   | 5,3   | 70    |   |      |   |       |   | 70                                                                                  |  |
| 72                                                                                                                                                                    | 12,3  | 7,9                                                                                      | 6,6   | 10,2  | 8,3   | 7,0                                                                                       | 9,5   | 6,6   | 5,4   | 7,6   | 4,4   | -     | 6,4   | -       | -     | 4,5   | 4,1   | 72    |   |      |   |       |   | 72                                                                                  |  |
| 74                                                                                                                                                                    | 11,3  | 6,9                                                                                      | 5,6   | 9,2   | 7,2   | 6,0                                                                                       | 8,4   | 5,5   | 4,3   | 6,5   | -     | -     | 5,3   | -       | -     | -     | -     | 74    |   |      |   |       |   | 74                                                                                  |  |
| 75                                                                                                                                                                    | 10,8  | 6,4                                                                                      | 5,1   | 8,7   | 6,7   | 5,5                                                                                       | 7,9   | 5,0   | -     | 6,0   | -     | -     | 4,8   | -       | -     | -     | -     | 75    |   |      |   |       |   | 75                                                                                  |  |
| 76                                                                                                                                                                    | -     | -                                                                                        | 4,6   | 8,3   | 6,2   | 5,0                                                                                       | 7,5   | 4,5   | -     | 5,5   | -     | -     | 4,3   | -       | -     | -     | -     | 76    |   |      |   |       |   | 76                                                                                  |  |
| 77                                                                                                                                                                    | -     | -                                                                                        | 4,1   | 7,9   | 5,7   | 4,5                                                                                       | 7,0   | 4,0   | -     | 5,0   | -     | -     | -     | -       | -     | -     | -     | 77    |   |      |   |       |   | 77                                                                                  |  |
| 78                                                                                                                                                                    | -     | -                                                                                        | -     | 7,5   | 5,3   | 4,0                                                                                       | 6,6   | -     | -     | 4,6   | -     | -     | -     | -       | -     | -     | -     | 78    |   |      |   |       |   | 78                                                                                  |  |
| 79                                                                                                                                                                    | -     | -                                                                                        | -     | 7,1   | 4,8   | -                                                                                         | 6,1   | -     | -     | 4,2   | -     | -     | -     | -       | -     | -     | -     | 79    |   |      |   |       |   | 79                                                                                  |  |
| 80                                                                                                                                                                    | -     | -                                                                                        | -     | 6,7   | 4,4   | -                                                                                         | 5,7   | -     | -     | -     | -     | -     | -     | -       | -     | -     | -     | 80    |   |      |   |       |   | 80                                                                                  |  |
| 82                                                                                                                                                                    | -     | -                                                                                        | -     | -     | -     | -                                                                                         | 4,9   | -     | -     | -     | -     | -     | -     | -       | -     | -     | -     | 82    |   |      |   |       |   | 82                                                                                  |  |
| 84                                                                                                                                                                    | -     | -                                                                                        | -     | -     | -     | -                                                                                         | 4,2   | -     | -     | -     | -     | -     | -     | -       | -     | -     | -     | 84    |   |      |   |       |   | 84                                                                                  |  |



185 t

205 t

225 t



30 t

50 t

|                                                                                     |       |       |       |
|-------------------------------------------------------------------------------------|-------|-------|-------|
|  | 185 t | 205 t | 225 t |
|  | 30 t  | 50 t  |       |

# Operation

LH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  |       |  8,40 m |       |       |       |       |       |       |       |       |       |  9.8 m/s |       |       |       | 360°                                                                                |       |       |    | EN13000 |  |  |  |
|-----------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|-------------------------------------------------------------------------------------|-------|-------|----|---------|--|--|--|
|  |       | 36m                                                                                      | 42m   | 48m   | 54 m  |       | 57m   | 60 m  | 63m   | 66 m  | 69m   | 72 m                                                                                      | 75m   | 78 m  | 81m   |  |       |       |    |         |  |  |  |
|                                                                                   |       | LH_1                                                                                     |       |       |       | LH_5  |       | LH_1  | LH_5  | LH_1  | LH_5  | LH_1                                                                                      | LH_5  | LH_1  | LH_5  |                                                                                     |       |       |    |         |  |  |  |
| m                                                                                 | t     | t                                                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t                                                                                         | t     | t     | t     | t                                                                                   | m     |       |    |         |  |  |  |
| 7                                                                                 | 347,0 | 347,0                                                                                    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -                                                                                   | 7     |       |    |         |  |  |  |
| 8                                                                                 | 347,0 | 338,0                                                                                    | 318,0 | 297,0 | 316,0 | 306,0 | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -                                                                                   | 8     |       |    |         |  |  |  |
| 9                                                                                 | 315,0 | 295,0                                                                                    | 279,0 | 263,0 | 277,0 | 269,0 | 248,0 | 262,0 | 254,0 | 234,0 | 247,0 | 241,0                                                                                     | -     | -     | -     | -                                                                                   | 9     |       |    |         |  |  |  |
| 10                                                                                | 277,0 | 261,0                                                                                    | 248,0 | 235,0 | 246,0 | 239,0 | 222,0 | 233,0 | 227,0 | 211,0 | 221,0 | 215,0                                                                                     | 200,0 | 210,0 | 204,0 | 190,0                                                                               | 199,0 | 194,0 | 10 |         |  |  |  |
| 12                                                                                | 223,0 | 211,0                                                                                    | 203,0 | 193,0 | 199,0 | 195,0 | 184,0 | 190,0 | 186,0 | 175,0 | 181,0 | 177,0                                                                                     | 167,0 | 173,0 | 168,0 | 159,0                                                                               | 164,0 | 160,0 | 12 |         |  |  |  |
| 14                                                                                | 182,0 | 176,0                                                                                    | 171,0 | 163,0 | 167,0 | 163,0 | 156,0 | 160,0 | 156,0 | 149,0 | 152,0 | 149,0                                                                                     | 142,0 | 146,0 | 142,0 | 136,0                                                                               | 139,0 | 135,0 | 14 |         |  |  |  |
| 16                                                                                | 148,0 | 147,0                                                                                    | 147,0 | 141,0 | 143,0 | 139,0 | 134,0 | 137,0 | 134,0 | 129,0 | 131,0 | 128,0                                                                                     | 123,0 | 125,0 | 122,0 | 118,0                                                                               | 119,0 | 116,0 | 16 |         |  |  |  |
| 18                                                                                | 124,0 | 123,0                                                                                    | 123,0 | 122,0 | 119,0 | 118,0 | 118,0 | 119,0 | 116,0 | 113,0 | 114,0 | 111,0                                                                                     | 108,0 | 109,0 | 106,0 | 104,0                                                                               | 103,0 | 101,0 | 18 |         |  |  |  |
| 20                                                                                | 106,0 | 105,0                                                                                    | 106,0 | 104,0 | 101,0 | 100,0 | 103,0 | 101,0 | 100,0 | 100,0 | 99,0  | 97,5                                                                                      | 96,5  | 95,5  | 93,0  | 92,0                                                                                | 91,0  | 88,5  | 20 |         |  |  |  |
| 22                                                                                | 92,5  | 91,0                                                                                     | 92,0  | 90,5  | 87,5  | 87,0  | 89,5  | 87,0  | 86,0  | 88,5  | 85,0  | 84,0                                                                                      | 86,0  | 84,0  | 82,5  | 82,0                                                                                | 80,0  | 78,0  | 22 |         |  |  |  |
| 24                                                                                | 81,5  | 80,0                                                                                     | 81,0  | 79,5  | 76,5  | 75,5  | 78,5  | 75,5  | 75,0  | 77,0  | 74,0  | 73,0                                                                                      | 76,5  | 73,0  | 71,5  | 74,0                                                                                | 71,0  | 69,5  | 24 |         |  |  |  |
| 26                                                                                | 72,5  | 71,0                                                                                     | 72,0  | 70,5  | 67,5  | 66,5  | 69,5  | 66,5  | 65,5  | 68,0  | 65,0  | 64,0                                                                                      | 67,5  | 63,5  | 62,5  | 66,5                                                                                | 62,0  | 61,0  | 26 |         |  |  |  |
| 28                                                                                | 65,5  | 64,0                                                                                     | 64,5  | 63,0  | 60,0  | 59,0  | 62,0  | 59,0  | 58,0  | 60,5  | 57,5  | 56,5                                                                                      | 60,0  | 56,0  | 55,0  | 59,0                                                                                | 54,5  | 53,5  | 28 |         |  |  |  |
| 30                                                                                | 59,0  | 57,5                                                                                     | 58,5  | 57,0  | 54,0  | 53,0  | 56,0  | 53,0  | 52,0  | 54,0  | 51,0  | 50,0                                                                                      | 53,5  | 50,0  | 48,7  | 52,5                                                                                | 48,2  | 47,1  | 30 |         |  |  |  |
| 33                                                                                | 51,5  | 50,3                                                                                     | 51,0  | 49,5  | 46,5  | 45,5  | 48,5  | 45,5  | 44,5  | 46,8  | 43,5  | 42,5                                                                                      | 46,0  | 42,2  | 40,7  | 45,0                                                                                | 39,9  | 38,8  | 33 |         |  |  |  |
| 34                                                                                | -     | 48,0                                                                                     | 48,6  | 47,0  | 44,1  | 43,1  | 46,0  | 43,0  | 42,0  | 44,4  | 41,1  | 40,0                                                                                      | 43,6  | 39,6  | 38,1  | 42,5                                                                                | 37,5  | 36,3  | 34 |         |  |  |  |
| 38                                                                                | -     | 40,6                                                                                     | 41,1  | 39,5  | 36,6  | 35,5  | 38,4  | 35,3  | 34,1  | 36,7  | 33,1  | 31,8                                                                                      | 36,0  | 31,5  | 29,9  | 34,5                                                                                | 29,3  | 28,1  | 38 |         |  |  |  |
| 42                                                                                | -     | -                                                                                        | 35,4  | 33,7  | 30,5  | 29,2  | 32,4  | 29,0  | 27,8  | 30,5  | 26,7  | 25,5                                                                                      | 29,6  | 25,1  | 23,5  | 28,1                                                                                | 22,8  | 21,6  | 42 |         |  |  |  |
| 43                                                                                | -     | -                                                                                        | 34,2  | 32,5  | 29,3  | 27,9  | 31,1  | 27,7  | 26,5  | 29,2  | 25,4  | 24,2                                                                                      | 28,3  | 23,7  | 22,1  | 26,8                                                                                | 21,4  | 20,3  | 43 |         |  |  |  |
| 46                                                                                | -     | -                                                                                        | -     | 29,0  | 25,7  | 24,3  | 27,5  | 24,0  | 22,7  | 25,5  | 21,7  | 20,4                                                                                      | 24,5  | 19,9  | 18,3  | 22,9                                                                                | 17,7  | 16,4  | 46 |         |  |  |  |
| 49                                                                                | -     | -                                                                                        | -     | 26,1  | 22,7  | 21,3  | 24,5  | 20,9  | 19,7  | 22,4  | 18,5  | 17,3                                                                                      | 21,3  | 16,8  | 15,1  | 19,7                                                                                | 14,4  | 13,2  | 49 |         |  |  |  |
| 50                                                                                | -     | -                                                                                        | -     | -     | -     | 20,4  | 23,5  | 19,9  | 18,7  | 21,4  | 17,6  | 16,3                                                                                      | 20,3  | 15,8  | 14,1  | 18,7                                                                                | 13,4  | 12,2  | 50 |         |  |  |  |
| 51                                                                                | -     | -                                                                                        | -     | -     | -     | 19,6  | 22,6  | 19,0  | 17,8  | 20,5  | 16,7  | 15,4                                                                                      | 19,4  | 14,9  | 13,2  | 17,8                                                                                | 12,5  | 11,2  | 51 |         |  |  |  |
| 54                                                                                | -     | -                                                                                        | -     | -     | -     | -     | 20,2  | 16,7  | 15,3  | 18,0  | 14,2  | 12,9                                                                                      | 16,9  | 12,3  | 10,7  | 15,2                                                                                | 9,9   | 8,7   | 54 |         |  |  |  |
| 56                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | 13,9  | 16,6  | 12,8  | 11,4                                                                                      | 15,4  | 10,8  | 9,2   | 13,7                                                                                | 8,4   | 7,2   | 56 |         |  |  |  |
| 58                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | 15,2  | 11,4  | 10,1                                                                                      | 14,0  | 9,5   | 7,8   | 12,3                                                                                | 7,0   | 5,7   | 58 |         |  |  |  |
| 59                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | 14,6  | 10,8  | 9,5                                                                                       | 13,4  | 8,9   | 7,2   | 11,6                                                                                | 6,3   | 5,0   | 59 |         |  |  |  |
| 60                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | 8,9                                                                                       | 12,8  | 8,3   | 6,6   | 11,0                                                                                | 5,7   | 4,4   | 60 |         |  |  |  |
| 62                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | 7,8                                                                                       | 11,6  | 7,1   | 5,4   | 9,8                                                                                 | 4,5   | -     | 62 |         |  |  |  |
| 64                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                         | 10,6  | 6,0   | 4,3   | 8,7                                                                                 | -     | -     | 64 |         |  |  |  |
| 66                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | 7,7                                                                                 | -     | -     | 66 |         |  |  |  |
| 69                                                                                | -     | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | 6,4                                                                                 | -     | -     | 69 |         |  |  |  |

125 t 165 t



# Operation

LH

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|    |       |  8,40 m |       |       |       |       |       |       |       |       |       |  9.8 m/s |       | 360°  |       |       |       | EN13000 |       |       |       |       |       |       |       |       |       |       |       |      |      |      |      |      |      |      |    |
|----|-------|------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|---------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|----|
|    |       | 84 m                                                                                     |       | 87 m  |       | 90 m  |       | 93 m  |       | 96 m  |       | 99 m                                                                                      |       | 102 m |       | 105 m |       | 108 m   |       | 111 m |       | 114 m |       |       |       |       |       |       |       |      |      |      |      |      |      |      |    |
|    |       | LH_1                                                                                     |       | LH_5  |       | LH_1  |       | LH_5  |       | LH_1  |       | LH_5                                                                                      |       | LH_1  |       | LH_5  |       | LH_1    |       | LH_5  |       | LH_1  |       | LH_5  |       |       |       |       |       |      |      |      |      |      |      |      |    |
| m  | t     | t                                                                                        | t     | t     | t     | t     | t     | t     | t     | t     | t     | t                                                                                         | t     | t     | t     | t     | t     | t       | t     | t     | t     | t     | t     | t     | t     | m     |       |       |       |      |      |      |      |      |      |      |    |
| 11 | 166,0 | 172,0                                                                                    | 168,0 | 158,0 | 166,0 | -     | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | -     | -     | -     | -     | -     | -     | 11    |       |       |       |      |      |      |      |      |      |      |    |
| 12 | 153,0 | 157,0                                                                                    | 153,0 | 146,0 | 152,0 | 148,0 | 140,0 | 145,0 | 142,0 | 133,0 | 138,0 | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | -     | -     | -     | -     | -     | -     | 12    |       |       |       |      |      |      |      |      |      |      |    |
| 13 | 142,0 | 145,0                                                                                    | 141,0 | 135,5 | 140,5 | 137,0 | 130,0 | 134,0 | 131,0 | 124,0 | 128,0 | 124,0                                                                                     | 118,0 | 121,0 | 122,0 | 112,0 | 112,0 | 104,0   | 110,0 | 114,0 | 111,0 | 109,0 | 111,0 | 108,0 | 105,0 | 106,0 | 104,0 | 100,0 | 101,0 | 99,0 | 95,5 | 96,5 | 97,5 | 91,0 | 95,0 | 16   |    |
| 14 | 131,0 | 133,0                                                                                    | 129,0 | 125,0 | 129,0 | 126,0 | 120,0 | 123,0 | 120,0 | 115,0 | 118,0 | 115,0                                                                                     | 109,0 | 112,0 | 112,0 | 104,0 | 110,0 | 104,0   | 110,0 | 114,0 | 111,0 | 109,0 | 111,0 | 108,0 | 105,0 | 106,0 | 104,0 | 100,0 | 101,0 | 99,0 | 95,5 | 96,5 | 97,5 | 91,0 | 95,0 | 16   |    |
| 16 | 114,0 | 114,0                                                                                    | 111,0 | 109,0 | 111,0 | 108,0 | 105,0 | 106,0 | 104,0 | 100,0 | 101,0 | 99,0                                                                                      | 95,5  | 96,5  | 97,5  | 91,0  | 95,0  | 91,0    | 95,0  | 114,0 | 111,0 | 109,0 | 111,0 | 108,0 | 105,0 | 106,0 | 104,0 | 100,0 | 101,0 | 99,0 | 95,5 | 96,5 | 97,5 | 91,0 | 95,0 | 16   |    |
| 18 | 100,0 | 99,0                                                                                     | 96,5  | 96,0  | 97,0  | 94,5  | 92,5  | 92,5  | 90,5  | 88,0  | 88,0  | 86,0                                                                                      | 84,0  | 84,0  | 85,0  | 80,0  | 83,0  | 80,0    | 83,0  | 100,0 | 99,0  | 96,5  | 96,0  | 97,0  | 94,5  | 92,5  | 92,5  | 90,5  | 88,0  | 88,0 | 86,0 | 84,0 | 84,0 | 85,0 | 80,0 | 83,0 | 18 |
| 20 | 89,5  | 86,5                                                                                     | 84,5  | 85,5  | 85,5  | 83,0  | 82,0  | 81,5  | 79,0  | 78,0  | 77,0  | 75,0                                                                                      | 74,5  | 73,5  | 74,5  | 70,5  | 73,0  | 70,5    | 73,0  | 89,5  | 86,5  | 84,5  | 85,5  | 85,5  | 83,0  | 82,0  | 81,5  | 79,0  | 78,0  | 77,0 | 75,0 | 74,5 | 73,5 | 74,5 | 70,5 | 73,0 | 20 |
| 22 | 80,0  | 76,5                                                                                     | 74,5  | 76,0  | 75,5  | 73,5  | 73,5  | 72,0  | 69,5  | 70,0  | 68,0  | 66,0                                                                                      | 66,5  | 64,5  | 65,5  | 63,0  | 64,0  | 63,0    | 64,0  | 80,0  | 76,5  | 74,5  | 76,0  | 75,5  | 73,5  | 73,5  | 72,0  | 69,5  | 70,0  | 68,0 | 66,0 | 66,5 | 64,5 | 65,5 | 63,0 | 64,0 | 22 |
| 24 | 72,0  | 68,0                                                                                     | 66,0  | 68,5  | 67,0  | 65,0  | 66,0  | 63,5  | 62,0  | 62,5  | 60,0  | 58,0                                                                                      | 59,5  | 56,5  | 58,0  | 56,0  | 57,0  | 56,0    | 57,0  | 72,0  | 68,0  | 66,0  | 68,5  | 67,0  | 65,0  | 66,0  | 63,5  | 62,0  | 62,5  | 60,0 | 58,0 | 59,5 | 56,5 | 58,0 | 56,0 | 57,0 | 24 |
| 26 | 65,0  | 60,5                                                                                     | 58,5  | 62,0  | 60,0  | 58,0  | 59,5  | 56,5  | 55,0  | 56,0  | 53,5  | 51,5                                                                                      | 53,5  | 50,5  | 51,5  | 50,0  | 51,5  | 50,0    | 51,5  | 65,0  | 60,5  | 58,5  | 62,0  | 60,0  | 58,0  | 59,5  | 56,5  | 55,0  | 56,0  | 53,5 | 51,5 | 53,5 | 50,5 | 51,5 | 50,0 | 51,5 | 26 |
| 28 | 59,0  | 53,5                                                                                     | 52,5  | 56,0  | 53,5  | 52,0  | 53,5  | 50,5  | 49,2  | 50,5  | 47,6  | 45,9                                                                                      | 48,1  | 44,6  | 46,2  | 45,1  | 44,9  | 45,1    | 44,9  | 59,0  | 53,5  | 52,5  | 56,0  | 53,5  | 52,0  | 53,5  | 50,5  | 49,2  | 50,5  | 47,6 | 45,9 | 48,1 | 44,6 | 46,2 | 45,1 | 44,9 | 28 |
| 30 | 52,5  | 47,0                                                                                     | 45,8  | 51,0  | 47,6  | 46,4  | 48,9  | 45,6  | 43,9  | 46,1  | 42,4  | 40,8                                                                                      | 43,4  | 39,5  | 41,2  | 40,5  | 40,0  | 40,5    | 40,0  | 52,5  | 47,0  | 45,8  | 51,0  | 47,6  | 46,4  | 48,9  | 45,6  | 43,9  | 46,1  | 42,4 | 40,8 | 43,4 | 39,5 | 41,2 | 40,5 | 40,0 | 30 |
| 34 | 42,5  | 36,1                                                                                     | 34,9  | 41,0  | 36,7  | 35,5  | 40,5  | 35,4  | 34,3  | 37,9  | 33,3  | 32,2                                                                                      | 35,4  | 31,0  | 32,9  | 32,8  | 31,7  | 32,8    | 31,7  | 42,5  | 36,1  | 34,9  | 41,0  | 36,7  | 35,5  | 40,5  | 35,4  | 34,3  | 37,9  | 33,3 | 32,2 | 35,4 | 31,0 | 32,9 | 32,8 | 31,7 | 34 |
| 38 | 34,5  | 27,8                                                                                     | 26,7  | 32,7  | 28,4  | 27,3  | 32,2  | 27,1  | 25,9  | 30,5  | 25,0  | 23,8                                                                                      | 29,0  | 23,8  | 25,7  | 26,4  | 25,0  | 26,4    | 25,0  | 34,5  | 27,8  | 26,7  | 32,7  | 28,4  | 27,3  | 32,2  | 27,1  | 25,9  | 30,5  | 25,0 | 23,8 | 29,0 | 23,8 | 25,7 | 26,4 | 25,0 | 38 |
| 42 | 28,1  | 21,4                                                                                     | 20,2  | 26,3  | 21,9  | 20,7  | 25,7  | 20,6  | 19,4  | 24,0  | 18,5  | 17,3                                                                                      | 23,0  | 17,2  | 19,1  | 21,2  | 18,4  | 21,2    | 18,4  | 28,1  | 21,4  | 20,2  | 26,3  | 21,9  | 20,7  | 25,7  | 20,6  | 19,4  | 24,0  | 18,5 | 17,3 | 23,0 | 17,2 | 19,1 | 21,2 | 18,4 | 42 |
| 46 | 22,9  | 16,2                                                                                     | 15,0  | 21,0  | 16,7  | 15,5  | 20,5  | 15,3  | 14,1  | 18,7  | 13,2  | 12,0                                                                                      | 17,7  | 11,9  | 13,8  | 15,9  | 13,1  | 15,9    | 13,1  | 22,9  | 16,2  | 15,0  | 21,0  | 16,7  | 15,5  | 20,5  | 15,3  | 14,1  | 18,7  | 13,2 | 12,0 | 17,7 | 11,9 | 13,8 | 15,9 | 13,1 | 46 |
| 50 | 18,6  | 11,9                                                                                     | 10,7  | 16,8  | 12,4  | 11,2  | 16,2  | 11,0  | 9,8   | 14,4  | 8,8   | 7,7                                                                                       | 13,4  | 7,5   | 9,5   | 11,5  | 8,7   | 11,5    | 8,7   | 18,6  | 11,9  | 10,7  | 16,8  | 12,4  | 11,2  | 16,2  | 11,0  | 9,8   | 14,4  | 8,8  | 7,7  | 13,4 | 7,5  | 9,5  | 11,5 | 8,7  | 50 |
| 53 | 15,9  | 9,2                                                                                      | 8,0   | 14,1  | 9,7   | 8,5   | 13,5  | 8,3   | 7,1   | 11,7  | 6,1   | 4,9                                                                                       | 10,6  | 4,7   | 6,7   | 8,8   | 6,0   | 8,8     | 6,0   | 15,9  | 9,2   | 8,0   | 14,1  | 9,7   | 8,5   | 13,5  | 8,3   | 7,1   | 11,7  | 6,1  | 4,9  | 10,6 | 4,7  | 6,7  | 8,8  | 6,0  | 53 |
| 54 | 15,1  | 8,3                                                                                      | 7,1   | 13,2  | 8,8   | 7,6   | 12,6  | 7,4   | 6,2   | 10,8  | 5,2   | 4,0                                                                                       | 9,7   | -     | 5,8   | 7,9   | 5,1   | 7,9     | 5,1   | 15,1  | 8,3   | 7,1   | 13,2  | 8,8   | 7,6   | 12,6  | 7,4   | 6,2   | 10,8  | 5,2  | 4,0  | 9,7  | -    | 5,8  | 7,9  | 5,1  | 54 |
| 55 | 14,3  | 7,5                                                                                      | 6,3   | 12,4  | 8,0   | 6,8   | 11,8  | 6,6   | 5,4   | 10,0  | 4,4   | -                                                                                         | 8,9   | -     | 5,0   | 7,1   | 4,2   | 7,1     | 4,2   | 14,3  | 7,5   | 6,3   | 12,4  | 8,0   | 6,8   | 11,8  | 6,6   | 5,4   | 10,0  | 4,4  | -    | 8,9  | -    | 5,0  | 7,1  | 4,2  | 55 |
| 56 | 13,6  | 6,8                                                                                      | 5,6   | 11,7  | 7,3   | 6,1   | 11,0  | 5,8   | 4,6   | 9,3   | -     | -                                                                                         | 8,2   | -     | 4,2   | 6,3   | -     | 6,3     | -     | 13,6  | 6,8   | 5,6   | 11,7  | 7,3   | 6,1   | 11,0  | 5,8   | 4,6   | 9,3   | -    | -    | 8,2  | -    | 4,2  | 6,3  | -    | 56 |
| 58 | 12,1  | 5,3                                                                                      | 4,1   | 10,2  | 5,8   | 4,6   | 9,6   | 4,3   | -     | 7,8   | -     | -                                                                                         | 6,7   | -     | -     | 4,8   | -     | 4,8     | -     | 12,1  | 5,3   | 4,1   | 10,2  | 5,8   | 4,6   | 9,6   | 4,3   | -     | 7,8   | -    | -    | 6,7  | -    | -    | 4,8  | -    | 58 |
| 59 | 11,4  | 4,6                                                                                      | -     | 9,5   | 5,1   | -     | 8,9   | -     | -     | 7,1   | -     | -                                                                                         | 6,0   | -     | -     | 4,1   | -     | 4,1     | -     | 11,4  | 4,6   | -     | 9,5   | 5,1   | -     | 8,9   | -     | -     | 7,1   | -    | -    | 6,0  | -    | -    | 4,1  | -    | 59 |
| 60 | 10,8  | 4,0                                                                                      | -     | 8,9   | 4,5   | -     | 8,3   | -     | -     | 6,4   | -     | -                                                                                         | 5,3   | -     | -     | -     | -     | -       | -     | 10,8  | 4,0   | -     | 8,9   | 4,5   | -     | 8,3   | -     | -     | 6,4   | -    | -    | 5,3  | -    | -    | -    | -    | 60 |
| 62 | 9,6   | -                                                                                        | -     | 7,7   | -     | -     | 7,0   | -     | -     | 5,1   | -     | -                                                                                         | 4,0   | -     | -     | -     | -     | -       | -     | 9,6   | -     | -     | 7,7   | -     | -     | 7,0   | -     | -     | 5,1   | -    | -    | 4,0  | -    | -    | -    | -    | 62 |
| 63 | 9,0   | -                                                                                        | -     | 7,1   | -     | -     | 6,4   | -     | -     | 4,6   | -     | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | 9,0   | -     | -     | 7,1   | -     | -     | 6,4   | -     | -     | 4,6   | -    | -    | -    | -    | -    | -    | -    | 63 |
| 66 | 7,4   | -                                                                                        | -     | 5,5   | -     | -     | 4,8   | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | 7,4   | -     | -     | 5,5   | -     | -     | 4,8   | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | 66 |
| 67 | 6,9   | -                                                                                        | -     | 5,0   | -     | -     | 4,3   | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | 6,9   | -     | -     | 5,0   | -     | -     | 4,3   | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | 67 |
| 69 | 6,0   | -                                                                                        | -     | 4,0   | -     | -     | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | 6,0   | -     | -     | 4,0   | -     | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | 69 |
| 70 | 5,6   | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | 5,6   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | 70   |    |
| 74 | 4,0   | -                                                                                        | -     | -     | -     | -     | -     | -     | -     | -     | -     | -                                                                                         | -     | -     | -     | -     | -     | -       | -     | 4,0   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | 74   |    |

165 t

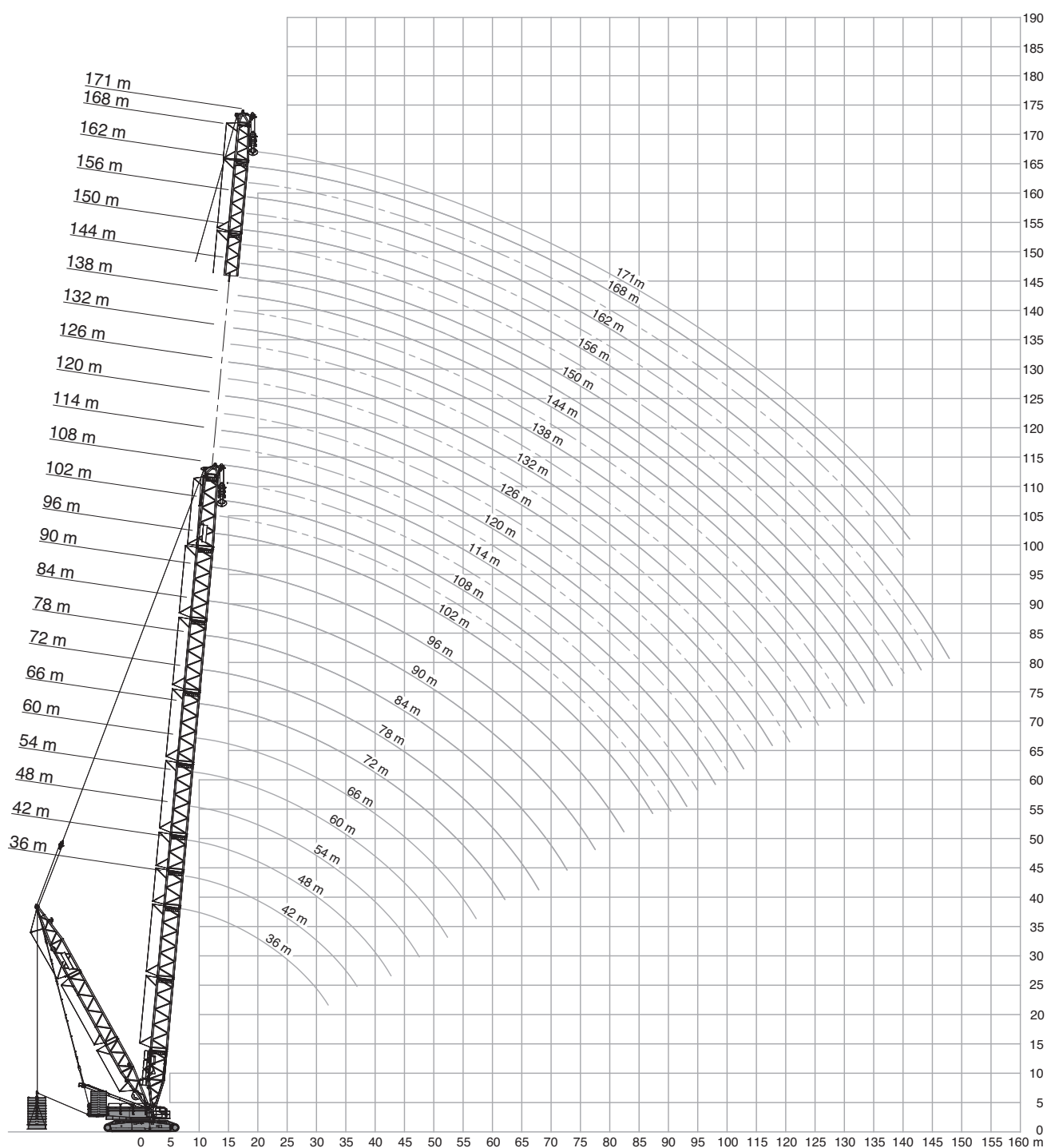
## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SSL, LSL



# Operation

SSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  225 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000 |       |       |   |   |       |       |       |    |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|---|---|-------|-------|-------|----|----|
|  <div> <div>42 m</div> <div>SSL_2   SSL_3</div> <div>0 t   0 t - 325 t</div> </div> <div> <div>48 m</div> <div>SSL_2   SSL_3</div> <div>0 t   0 t - 325 t</div> </div>                                                                                                                                                      |       |       |   |   |       |       |       |    |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t     | t     | t | t | t     | t     | t     | m  | m  |
| 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 486,0 | 650,0 | - | - | 482,0 | 650,0 | 650,0 | 8  | 8  |
| 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 443,0 | 650,0 | - | - | 427,0 | 650,0 | 650,0 | 9  | 9  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 398,0 | 628,0 | - | - | 382,0 | 650,0 | 650,0 | 10 | 10 |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 359,5 | 584,0 | - | - | 345,5 | 614,0 | 614,0 | 11 | 11 |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 324,0 | 581,0 | - | - | 313,0 | 618,0 | 618,0 | 12 | 12 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 269,0 | 546,0 | - | - | 265,0 | 578,0 | 577,0 | 14 | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 245,0 | 547,0 | - | - | 246,0 | 578,0 | 577,0 | 15 | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 222,0 | 517,0 | - | - | 223,0 | 546,0 | 546,0 | 16 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 188,0 | 495,0 | - | - | 187,0 | 492,0 | 491,0 | 18 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 161,0 | 450,0 | - | - | 160,0 | 447,0 | 446,0 | 20 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 141,0 | 412,0 | - | - | 139,0 | 409,0 | 408,0 | 22 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 124,0 | 379,0 | - | - | 122,0 | 377,0 | 376,0 | 24 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 111,0 | 352,0 | - | - | 109,0 | 349,0 | 348,0 | 26 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 100,0 | 322,0 | - | - | 98,0  | 324,0 | 323,0 | 28 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 91,0  | 290,0 | - | - | 89,0  | 301,0 | 300,0 | 30 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 77,3  | 240,3 | - | - | 75,0  | 260,3 | 260,0 | 34 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 65,0  | 201,0 | - | - | 63,5  | 220,3 | 220,0 | 38 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -     | - | - | 54,5  | 186,0 | 186,0 | 42 | 42 |
| 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -     | - | - | 51,0  | 169,0 | 169,0 | 44 | 44 |

|  <div> <div>54 m</div> <div>SSL_1   SSL_2   SSL_3   SSL_4</div> <div>0 t   0 t - 325 t</div> </div> <div> <div>60 m</div> <div>SSL_1   SSL_2   SSL_3   SSL_4</div> <div>0 t   0 t - 325 t</div> </div>  |       |       |       |       |   |       |       |       |       |       |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|---|-------|-------|-------|-------|-------|----|
| m                                                                                                                                                                                                                                                                                                                                                                               | t     | t     | t     | t     | t | t     | t     | t     | t     | t     | m  |
| 8                                                                                                                                                                                                                                                                                                                                                                               | 434,0 | 650,0 | 632,0 | 632,0 | - | -     | -     | -     | -     | -     | 8  |
| 9                                                                                                                                                                                                                                                                                                                                                                               | 384,0 | 650,0 | 632,0 | 632,0 | - | 366,0 | 571,0 | 571,0 | 571,0 | 571,0 | 9  |
| 10                                                                                                                                                                                                                                                                                                                                                                              | 344,0 | 650,0 | 632,0 | 632,0 | - | 333,0 | 571,0 | 571,0 | 571,0 | 571,0 | 10 |
| 11                                                                                                                                                                                                                                                                                                                                                                              | 317,0 | 650,0 | 624,0 | 632,0 | - | 304,5 | 571,0 | 571,0 | 571,0 | 571,0 | 11 |
| 12                                                                                                                                                                                                                                                                                                                                                                              | 289,0 | 650,0 | 632,0 | 632,0 | - | 276,0 | 571,0 | 571,0 | 571,0 | 571,0 | 12 |
| 14                                                                                                                                                                                                                                                                                                                                                                              | 245,0 | 576,0 | 611,0 | 610,0 | - | 234,0 | 571,0 | 571,0 | 571,0 | 571,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                              | 212,0 | 512,0 | 544,0 | 543,0 | - | 203,0 | 510,0 | 542,0 | 541,0 | 540,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                              | 184,0 | 461,0 | 489,0 | 489,0 | - | 178,0 | 458,0 | 487,0 | 486,0 | 485,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                              | 158,0 | 418,0 | 444,0 | 444,0 | - | 156,0 | 416,0 | 442,0 | 441,0 | 440,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                              | 137,0 | 383,0 | 406,0 | 406,0 | - | 135,0 | 380,0 | 405,0 | 404,0 | 403,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                              | 120,0 | 352,0 | 374,0 | 374,0 | - | 119,0 | 350,0 | 372,0 | 371,0 | 370,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                              | 107,0 | 326,0 | 346,0 | 346,0 | - | 105,0 | 324,0 | 345,0 | 344,0 | 343,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                              | 96,5  | 303,0 | 321,0 | 321,0 | - | 94,5  | 301,0 | 319,0 | 319,0 | 318,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                              | 87,0  | 282,0 | 298,0 | 298,0 | - | 85,0  | 279,0 | 297,0 | 296,0 | 295,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                              | 73,0  | 247,3 | 261,3 | 261,3 | - | 71,3  | 245,6 | 260,3 | 260,0 | 259,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                              | 61,5  | 216,3 | 229,3 | 229,3 | - | 59,8  | 216,0 | 228,6 | 228,3 | 227,3 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                              | 52,5  | 189,0 | 202,0 | 202,0 | - | 50,5  | 190,0 | 202,0 | 201,0 | 200,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                              | 46,1  | 160,3 | 171,3 | 170,6 | - | 43,8  | 170,0 | 182,0 | 181,6 | 180,6 | 46 |
| 49                                                                                                                                                                                                                                                                                                                                                                              | 41,6  | 144,0 | 154,0 | 154,0 | - | 39,2  | 154,3 | 166,0 | 165,8 | 164,8 | 49 |
| 50                                                                                                                                                                                                                                                                                                                                                                              | -     | -     | -     | -     | - | 38,0  | 148,6 | 160,0 | 159,6 | 158,6 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                              | -     | -     | -     | -     | - | 33,0  | 131,0 | 140,0 | 139,0 | 138,0 | 54 |

|                                                                                     |     |      |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|

SSL\_1:  11-19 m

SSL\_2, SSL\_3, SSL\_4:  11-21 m

# Operation

SSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  225 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000 |       |       |       |       |       |                               |       |       |       |       |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------------------------------|-------|-------|-------|-------|----|
| 66 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |       |       |       |       |       | 72 m                          |       |       |       |       |    |
| SSL_1   SSL_2   SSL_3   SSL_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |       |       |       |       | SSL_1   SSL_2   SSL_3   SSL_4 |       |       |       |       |    |
| 0 t   0 t - 325 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       | 0 t   0 t - 325 t             |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t     | t     | t     | t     | t     | t                             | t     | t     | t     | t     | m  |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 317,0 | 509,0 | 509,0 | 509,0 | 509,0 | 301,0                         | 445,0 | 445,0 | 445,0 | 445,0 | 10 |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 264,0 | 507,0 | 509,0 | 509,0 | 509,0 | 252,0                         | 445,0 | 445,0 | 445,0 | 445,0 | 12 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 225,0 | 502,0 | 509,0 | 509,0 | 509,0 | 216,0                         | 445,0 | 445,0 | 445,0 | 445,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 196,0 | 496,0 | 506,0 | 509,0 | 509,0 | 188,0                         | 444,0 | 445,0 | 445,0 | 445,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 172,0 | 458,0 | 486,0 | 484,0 | 483,0 | 166,0                         | 437,0 | 442,0 | 445,0 | 445,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 153,0 | 415,0 | 441,0 | 439,0 | 438,0 | 148,0                         | 414,0 | 438,0 | 437,0 | 435,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 135,0 | 380,0 | 404,0 | 402,0 | 401,0 | 133,0                         | 378,0 | 402,0 | 400,0 | 398,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 119,0 | 349,0 | 371,0 | 369,0 | 369,0 | 118,0                         | 347,0 | 370,0 | 368,0 | 366,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 105,0 | 323,0 | 344,0 | 342,0 | 341,0 | 104,0                         | 321,0 | 342,0 | 340,0 | 338,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 94,5  | 300,0 | 319,0 | 317,0 | 316,0 | 93,5                          | 298,0 | 317,0 | 315,0 | 313,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 85,0  | 279,0 | 296,0 | 294,0 | 293,0 | 84,0                          | 277,0 | 294,0 | 292,0 | 290,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71,0  | 245,0 | 260,0 | 258,6 | 257,6 | 69,6                          | 243,6 | 258,0 | 256,6 | 254,6 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 59,3  | 215,3 | 228,6 | 227,3 | 226,3 | 57,9                          | 214,3 | 227,0 | 225,6 | 224,0 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 50,0  | 190,0 | 202,0 | 200,0 | 199,0 | 48,7                          | 189,0 | 201,0 | 199,0 | 198,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 43,1  | 171,3 | 182,0 | 180,0 | 179,6 | 41,5                          | 170,3 | 181,0 | 179,0 | 178,0 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 37,1  | 154,3 | 164,3 | 162,3 | 162,3 | 35,3                          | 153,6 | 163,3 | 161,3 | 160,3 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 31,9  | 139,0 | 149,0 | 147,0 | 147,0 | 29,9                          | 139,0 | 148,0 | 146,0 | 145,0 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 27,9  | 119,8 | 129,8 | 127,8 | 127,0 | 25,9                          | 126,3 | 136,0 | 134,0 | 132,3 | 58 |
| 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 27,0  | 117,0 | 125,0 | 123,0 | 122,0 | 24,9                          | 123,1 | 133,0 | 131,0 | 129,1 | 59 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -     | -     | -     | -     | 22,3                          | 112,0 | 122,0 | 120,0 | 118,0 | 62 |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | -     | -     | -     | -     | 20,7                          | 104,0 | 114,0 | 112,0 | 110,0 | 64 |

| 78 m                          |       |       |       |       |       | 84 m                          |       |       |       |       |    |
|-------------------------------|-------|-------|-------|-------|-------|-------------------------------|-------|-------|-------|-------|----|
| SSL_1   SSL_2   SSL_3   SSL_4 |       |       |       |       |       | SSL_1   SSL_2   SSL_3   SSL_4 |       |       |       |       |    |
| 0 t   0 t - 325 t             |       |       |       |       |       | 0 t   0 t - 325 t             |       |       |       |       |    |
| m                             | t     | t     | t     | t     | t     | t                             | t     | t     | t     | t     | m  |
| 11                            | 263,0 | 376,0 | 385,0 | 413,0 | 413,0 | 251,0                         | 338,0 | 346,0 | 380,0 | 380,0 | 11 |
| 12                            | 242,0 | 376,0 | 385,0 | 413,0 | 413,0 | 232,0                         | 338,0 | 346,0 | 380,0 | 380,0 | 12 |
| 14                            | 208,0 | 376,0 | 385,0 | 413,0 | 413,0 | 200,0                         | 338,0 | 346,0 | 380,0 | 380,0 | 14 |
| 16                            | 182,0 | 376,0 | 382,0 | 413,0 | 413,0 | 175,0                         | 338,0 | 346,0 | 380,0 | 380,0 | 16 |
| 18                            | 161,0 | 369,0 | 378,0 | 413,0 | 413,0 | 154,0                         | 338,0 | 342,0 | 380,0 | 380,0 | 18 |
| 20                            | 143,0 | 367,0 | 375,0 | 413,0 | 413,0 | 138,0                         | 332,0 | 338,0 | 380,0 | 380,0 | 20 |
| 22                            | 129,0 | 364,0 | 372,0 | 398,0 | 396,0 | 124,0                         | 329,0 | 335,0 | 380,0 | 380,0 | 22 |
| 24                            | 117,0 | 347,0 | 364,0 | 365,0 | 364,0 | 112,0                         | 326,0 | 332,0 | 363,0 | 361,0 | 24 |
| 26                            | 104,0 | 321,0 | 342,0 | 338,0 | 336,0 | 102,0                         | 319,0 | 321,0 | 335,0 | 334,0 | 26 |
| 28                            | 93,5  | 298,0 | 317,0 | 313,0 | 311,0 | 92,0                          | 296,0 | 314,0 | 311,0 | 309,0 | 28 |
| 30                            | 84,0  | 277,0 | 294,0 | 290,0 | 288,0 | 82,5                          | 275,0 | 292,0 | 288,0 | 286,0 | 30 |
| 34                            | 69,6  | 243,0 | 258,6 | 254,6 | 252,6 | 68,5                          | 241,0 | 256,6 | 252,0 | 250,6 | 34 |
| 38                            | 57,8  | 214,0 | 227,6 | 224,0 | 222,3 | 56,6                          | 212,0 | 225,6 | 221,3 | 220,0 | 38 |
| 42                            | 48,6  | 190,0 | 201,0 | 198,0 | 197,0 | 47,0                          | 188,0 | 199,0 | 196,0 | 194,0 | 42 |
| 46                            | 41,4  | 170,6 | 181,0 | 178,0 | 176,3 | 39,6                          | 169,3 | 179,6 | 176,0 | 174,6 | 46 |
| 50                            | 35,0  | 153,6 | 163,3 | 160,3 | 158,3 | 33,2                          | 152,6 | 162,3 | 158,3 | 157,3 | 50 |
| 54                            | 29,6  | 139,0 | 148,0 | 145,0 | 143,0 | 27,8                          | 138,0 | 147,0 | 143,0 | 142,0 | 54 |
| 58                            | 25,4  | 127,6 | 136,0 | 132,3 | 131,0 | 23,5                          | 126,0 | 134,3 | 131,0 | 130,0 | 58 |
| 62                            | 21,7  | 116,6 | 125,0 | 121,3 | 120,0 | 19,7                          | 115,3 | 123,0 | 120,0 | 119,0 | 62 |
| 66                            | 18,5  | 106,0 | 115,0 | 112,0 | 110,0 | 16,5                          | 106,0 | 113,0 | 110,0 | 109,0 | 66 |
| 70                            | 16,0  | 93,0  | 102,0 | 98,0  | 96,0  | 13,9                          | 97,0  | 105,0 | 102,0 | 100,3 | 70 |
| 74                            | -     | -     | -     | -     | -     | 11,4                          | 86,8  | 95,6  | 91,6  | 89,6  | 74 |
| 75                            | -     | -     | -     | -     | -     | 10,9                          | 84,0  | 93,0  | 88,5  | 86,5  | 75 |


☐ 0 t
 ☐ 65 t
 ☒ 125 t
 ☐ 165 t
 ☐ 205 t
 ☐ 245 t
 ☐ 285 t
 ☐ 325 t

SSL\_1:  11-19 m

SSL\_2, SSL\_3, SSL\_4:  11-21 m

# Operation

SSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  225 t +  50 t            11-21 m            8,40 m            9.8 m/s           360°           EN13000         </div> |       |       |       |       |       |                               |       |       |       |       |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------------------------------|-------|-------|-------|-------|----|
| 90 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |       |       |       |       |       | 96 m                          |       |       |       |       |    |
| SSL_1   SSL_2   SSL_3   SSL_4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       |       |       | SSL_1   SSL_2   SSL_3   SSL_4 |       |       |       |       |    |
| 0 t   0 t - 325 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |       |       | 0 t   0 t - 325 t             |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t     | t     | t     | t     | t     | t                             | t     | t     | t     | t     | m  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 224,0 | 303,0 | 310,0 | 347,0 | 347,0 | 214,0                         | 268,0 | 274,0 | 314,0 | 314,0 | 12 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 193,0 | 303,0 | 310,0 | 347,0 | 347,0 | 185,0                         | 268,0 | 274,0 | 314,0 | 314,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 169,0 | 303,0 | 310,0 | 347,0 | 347,0 | 163,0                         | 268,0 | 274,0 | 314,0 | 314,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 150,0 | 303,0 | 310,0 | 347,0 | 347,0 | 144,0                         | 268,0 | 274,0 | 314,0 | 314,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 134,0 | 303,0 | 306,0 | 347,0 | 347,0 | 129,0                         | 268,0 | 274,0 | 314,0 | 314,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 121,0 | 299,0 | 302,0 | 347,0 | 347,0 | 116,0                         | 267,0 | 271,0 | 314,0 | 314,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 109,0 | 296,0 | 299,0 | 347,0 | 347,0 | 105,0                         | 264,0 | 268,0 | 314,0 | 314,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100,0 | 293,0 | 294,0 | 333,0 | 332,0 | 96,0                          | 262,0 | 266,0 | 314,0 | 314,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 91,5  | 287,0 | 286,0 | 309,0 | 307,0 | 87,5                          | 259,0 | 260,0 | 305,0 | 305,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 82,5  | 275,0 | 280,0 | 286,0 | 284,0 | 80,0                          | 255,0 | 253,0 | 284,0 | 283,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 68,5  | 241,0 | 252,6 | 250,6 | 248,6 | 66,6                          | 232,6 | 242,3 | 248,6 | 247,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 56,7  | 212,0 | 226,0 | 220,0 | 218,3 | 55,1                          | 210,6 | 224,3 | 218,0 | 216,3 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 47,1  | 188,0 | 200,0 | 194,0 | 193,0 | 45,5                          | 186,0 | 199,0 | 192,0 | 191,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 39,7  | 169,3 | 180,0 | 174,6 | 173,6 | 38,1                          | 167,3 | 178,3 | 172,6 | 171,6 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 33,2  | 152,6 | 162,3 | 157,3 | 156,3 | 31,6                          | 151,0 | 160,6 | 155,3 | 154,3 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 27,7  | 138,0 | 147,0 | 142,0 | 141,0 | 26,1                          | 137,0 | 146,0 | 140,0 | 139,0 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23,4  | 126,6 | 134,3 | 129,3 | 128,3 | 21,7                          | 125,0 | 133,3 | 128,0 | 127,0 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 19,6  | 116,0 | 123,3 | 118,3 | 117,0 | 17,9                          | 114,3 | 122,0 | 117,0 | 116,0 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16,2  | 106,0 | 114,0 | 109,0 | 107,0 | 14,5                          | 105,0 | 112,0 | 107,0 | 106,0 | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13,5  | 98,6  | 105,3 | 100,6 | 99,3  | 11,7                          | 97,3  | 104,0 | 99,0  | 98,0  | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11,1  | 90,8  | 97,6  | 93,0  | 91,5  | 9,2                           | 90,3  | 96,6  | 91,6  | 90,5  | 74 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9,0   | 82,5  | 91,0  | 85,5  | 83,5  | 7,0                           | 84,0  | 90,0  | 85,0  | 83,5  | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8,1   | 77,5  | 86,5  | 80,0  | 78,0  | 6,0                           | 80,2  | 86,5  | 81,3  | 79,8  | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | 5,1                           | 76,5  | 83,0  | 77,6  | 76,1  | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -                             | 70,0  | 77,5  | 71,5  | 70,0  | 85 |

| <div>   </div> |       |       |       |       |       |                               |       |       |       |       |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------------------------------|-------|-------|-------|-------|----|
| 102 m                                                                                                                                                                                |       |       |       |       |       | 108 m                         |       |       |       |       |    |
| SSL_1   SSL_2   SSL_3   SSL_4                                                                                                                                                        |       |       |       |       |       | SSL_1   SSL_2   SSL_3   SSL_4 |       |       |       |       |    |
| 0 t   0 t - 325 t                                                                                                                                                                    |       |       |       |       |       | 0 t   0 t - 325 t             |       |       |       |       |    |
| m                                                                                                                                                                                    | t     | t     | t     | t     | t     | t                             | t     | t     | t     | t     | m  |
| 13                                                                                                                                                                                   | 191,0 | 237,0 | 243,0 | 311,0 | 314,0 | 183,0                         | 209,0 | 214,0 | 280,0 | 281,0 | 13 |
| 14                                                                                                                                                                                   | 178,0 | 237,0 | 243,0 | 311,0 | 314,0 | 171,0                         | 209,0 | 214,0 | 280,0 | 281,0 | 14 |
| 16                                                                                                                                                                                   | 157,0 | 237,0 | 243,0 | 311,0 | 314,0 | 150,0                         | 209,0 | 214,0 | 280,0 | 281,0 | 16 |
| 18                                                                                                                                                                                   | 139,0 | 237,0 | 243,0 | 307,0 | 314,0 | 133,0                         | 208,0 | 214,0 | 280,0 | 281,0 | 18 |
| 20                                                                                                                                                                                   | 124,0 | 237,0 | 243,0 | 303,0 | 314,0 | 119,0                         | 208,0 | 214,0 | 276,0 | 281,0 | 20 |
| 22                                                                                                                                                                                   | 112,0 | 235,0 | 243,0 | 299,0 | 314,0 | 107,0                         | 207,0 | 213,0 | 273,0 | 281,0 | 22 |
| 24                                                                                                                                                                                   | 101,0 | 233,0 | 240,0 | 296,0 | 313,0 | 97,0                          | 204,0 | 211,0 | 270,0 | 281,0 | 24 |
| 26                                                                                                                                                                                   | 92,0  | 231,0 | 238,0 | 294,0 | 310,0 | 88,0                          | 201,0 | 209,0 | 267,0 | 281,0 | 26 |
| 28                                                                                                                                                                                   | 84,0  | 229,0 | 234,0 | 291,0 | 294,0 | 80,5                          | 199,0 | 207,0 | 266,0 | 280,0 | 28 |
| 30                                                                                                                                                                                   | 77,0  | 227,0 | 228,0 | 277,0 | 279,0 | 73,5                          | 197,0 | 203,0 | 262,0 | 268,0 | 30 |
| 34                                                                                                                                                                                   | 65,3  | 215,3 | 222,0 | 245,6 | 245,0 | 62,1                          | 190,3 | 197,3 | 239,3 | 240,6 | 34 |
| 38                                                                                                                                                                                   | 54,4  | 203,0 | 212,3 | 217,0 | 215,3 | 52,0                          | 181,6 | 190,0 | 215,3 | 214,0 | 38 |
| 42                                                                                                                                                                                   | 44,4  | 185,0 | 197,0 | 191,0 | 190,0 | 43,0                          | 175,0 | 182,0 | 190,0 | 188,0 | 42 |
| 46                                                                                                                                                                                   | 36,9  | 167,0 | 177,6 | 172,3 | 170,6 | 35,5                          | 162,3 | 172,0 | 170,6 | 168,6 | 46 |
| 50                                                                                                                                                                                   | 30,4  | 150,6 | 160,3 | 155,3 | 153,6 | 29,0                          | 149,0 | 159,3 | 153,3 | 151,6 | 50 |
| 54                                                                                                                                                                                   | 24,8  | 136,0 | 145,0 | 140,0 | 139,0 | 23,4                          | 135,0 | 144,0 | 138,0 | 137,0 | 54 |
| 58                                                                                                                                                                                   | 20,4  | 124,6 | 132,3 | 128,0 | 127,0 | 19,0                          | 123,6 | 132,0 | 126,0 | 125,0 | 58 |
| 62                                                                                                                                                                                   | 16,5  | 114,0 | 121,0 | 117,0 | 116,0 | 15,0                          | 113,0 | 120,6 | 115,0 | 114,2 | 62 |
| 66                                                                                                                                                                                   | 13,1  | 104,0 | 111,0 | 107,0 | 106,0 | 11,5                          | 103,0 | 110,0 | 105,0 | 104,0 | 66 |
| 70                                                                                                                                                                                   | 10,3  | 96,3  | 103,3 | 98,5  | 97,2  | 8,7                           | 95,3  | 102,0 | 97,0  | 96,0  | 70 |
| 74                                                                                                                                                                                   | 7,7   | 89,3  | 96,0  | 91,0  | 90,0  | 6,0                           | 88,1  | 94,3  | 89,5  | 88,5  | 74 |
| 75                                                                                                                                                                                   | 7,1   | 87,7  | 94,2  | 89,2  | 88,2  | 5,4                           | 86,5  | 92,5  | 87,7  | 86,7  | 75 |
| 78                                                                                                                                                                                   | 5,4   | 83,0  | 89,0  | 84,0  | 83,0  | -                             | 81,5  | 87,5  | 82,5  | 81,5  | 78 |
| 82                                                                                                                                                                                   | -     | 77,3  | 83,0  | 78,3  | 77,3  | -                             | 75,8  | 81,8  | 76,8  | 75,5  | 82 |
| 86                                                                                                                                                                                   | -     | 70,6  | 76,5  | 72,1  | 71,0  | -                             | 70,3  | 75,5  | 71,5  | 69,8  | 86 |
| 90                                                                                                                                                                                   | -     | 63,0  | 69,5  | 65,5  | 64,0  | -                             | 65,0  | 68,5  | 66,5  | 64,5  | 90 |
| 94                                                                                                                                                                                   | -     | -     | -     | -     | -     | -                             | 58,0  | 61,5  | 59,5  | 58,6  | 94 |
| 96                                                                                                                                                                                   | -     | -     | -     | -     | -     | -                             | 54,5  | 58,0  | 56,0  | 55,0  | 96 |

SSL\_1:  11-19 m

SSL\_2, SSL\_3, SSL\_4:  11-21 m



0 t

65 t

125 t

165 t

205 t

245 t

285 t

325 t

# Operation

SSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t |       | 11-19 m |       | 8,40 m |       | 9.8 m/s |       | 360°  |       | EN13000 |       |       |       |         |    |
|--------------|-------|---------|-------|--------|-------|---------|-------|-------|-------|---------|-------|-------|-------|---------|----|
| 36 m         |       | 42 m    |       | 48 m   |       | 54 m    |       | 60 m  |       | 66 m    |       | 72 m  |       |         |    |
| SSL_1        |       |         |       |        |       |         |       |       |       |         |       |       |       |         |    |
| 0 t          |       | 0t-325t |       | 0 t    |       | 0t-325t |       | 0 t   |       | 0t-325t |       | 0 t   |       | 0t-325t |    |
| m            | t     | t       | t     | t      | t     | t       | t     | t     | t     | t       | t     | t     | t     | t       | m  |
| 7            | 533,0 | 650,0   | 490,0 | 650,0  | -     | -       | -     | -     | -     | -       | -     | -     | -     | -       | 7  |
| 8            | 451,0 | 650,0   | 419,0 | 650,0  | 390,0 | 650,0   | 366,0 | 650,0 | -     | -       | -     | -     | -     | -       | 8  |
| 9            | 390,0 | 650,0   | 365,0 | 650,0  | 343,0 | 650,0   | 323,0 | 650,0 | 304,0 | 571,0   | -     | -     | -     | -       | 9  |
| 10           | 343,0 | 650,0   | 323,0 | 650,0  | 305,0 | 650,0   | 289,0 | 650,0 | 273,0 | 571,0   | 260,0 | 509,0 | 246,0 | 445,0   | 10 |
| 12           | 276,0 | 650,0   | 262,0 | 650,0  | 249,0 | 647,0   | 237,0 | 645,0 | 226,0 | 571,0   | 216,0 | 507,0 | 206,0 | 445,0   | 12 |
| 14           | 227,0 | 574,0   | 219,0 | 571,0  | 209,0 | 568,0   | 200,0 | 566,0 | 191,0 | 563,0   | 183,0 | 499,0 | 175,0 | 445,0   | 14 |
| 16           | 185,0 | 511,0   | 183,0 | 509,0  | 179,0 | 506,0   | 172,0 | 503,0 | 165,0 | 501,0   | 159,0 | 496,0 | 152,0 | 441,0   | 16 |
| 18           | 155,0 | 460,0   | 153,0 | 458,0  | 152,0 | 455,0   | 150,0 | 453,0 | 144,0 | 450,0   | 139,0 | 450,0 | 133,0 | 437,0   | 18 |
| 20           | 132,0 | 419,0   | 131,0 | 416,0  | 129,0 | 413,0   | 128,0 | 411,0 | 126,0 | 408,0   | 123,0 | 408,0 | 118,0 | 406,0   | 20 |
| 22           | 115,0 | 383,0   | 114,0 | 381,0  | 112,0 | 378,0   | 110,0 | 376,0 | 109,0 | 373,0   | 109,0 | 373,0 | 106,0 | 371,0   | 22 |
| 24           | 102,0 | 344,0   | 100,0 | 351,0  | 98,5  | 348,0   | 97,0  | 346,0 | 95,0  | 343,0   | 95,0  | 343,0 | 94,0  | 341,0   | 24 |
| 26           | 91,0  | 306,0   | 89,0  | 323,0  | 87,5  | 321,0   | 85,5  | 318,0 | 84,0  | 316,0   | 84,0  | 315,0 | 83,0  | 314,0   | 26 |
| 28           | 82,0  | 278,0   | 80,0  | 299,0  | 78,0  | 297,0   | 76,5  | 294,0 | 74,5  | 292,0   | 74,5  | 291,0 | 73,5  | 290,0   | 28 |
| 30           | 74,0  | 247,0   | 72,5  | 275,0  | 70,5  | 276,0   | 68,5  | 273,0 | 67,0  | 271,0   | 66,5  | 270,0 | 65,5  | 269,0   | 30 |
| 33           | 65,0  | 211,0   | 64,0  | 237,5  | 61,7  | 251,0   | 60,0  | 248,5 | 58,3  | 246,5   | 57,9  | 245,5 | 56,8  | 244,0   | 33 |
| 34           | -     | -       | 61,1  | 225,0  | 58,8  | 242,6   | 57,1  | 240,3 | 55,4  | 238,3   | 55,0  | 237,3 | 53,9  | 235,6   | 34 |
| 38           | -     | -       | 51,0  | 186,0  | 49,3  | 207,3   | 47,6  | 211,6 | 45,6  | 209,6   | 45,2  | 208,6 | 43,9  | 207,0   | 38 |
| 42           | -     | -       | -     | -      | 42,1  | 175,0   | 40,0  | 187,0 | 37,7  | 185,0   | 37,1  | 184,0 | 35,5  | 183,0   | 42 |
| 44           | -     | -       | -     | -      | 39,2  | 159,0   | 37,2  | 173,3 | 34,8  | 175,3   | 34,1  | 174,6 | 32,5  | 173,3   | 44 |
| 46           | -     | -       | -     | -      | -     | -       | 34,4  | 159,6 | 31,9  | 165,6   | 31,2  | 165,3 | 29,5  | 163,6   | 46 |
| 49           | -     | -       | -     | -      | -     | -       | 30,6  | 143,0 | 28,0  | 151,0   | 27,2  | 152,3 | 25,4  | 150,3   | 49 |
| 50           | -     | -       | -     | -      | -     | -       | -     | -     | 27,0  | 146,0   | 26,1  | 148,6 | 24,3  | 146,6   | 50 |
| 54           | -     | -       | -     | -      | -     | -       | -     | -     | 23,0  | 126,0   | 21,8  | 134,0 | 19,9  | 132,0   | 54 |
| 58           | -     | -       | -     | -      | -     | -       | -     | -     | -     | -       | 18,6  | 118,8 | 16,5  | 121,3   | 58 |
| 59           | -     | -       | -     | -      | -     | -       | -     | -     | -     | -       | 17,8  | 115,0 | 15,7  | 118,6   | 59 |
| 62           | -     | -       | -     | -      | -     | -       | -     | -     | -     | -       | -     | -     | 13,6  | 110,0   | 62 |
| 64           | -     | -       | -     | -      | -     | -       | -     | -     | -     | -       | -     | -     | 12,3  | 104,0   | 64 |

0 t

125 t

165 t

205 t

245 t

285 t

325 t

0 t 125 t 165 t 205 t 245 t 285 t 325 t

# Operation

SSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  165 t +  50 t            11-19 m            8,40 m            9.8 m/s           360°           EN13000         </div> |       |       |       |       |       |       |       |       |       |       |       |       |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| <div>  <div> <div>78 m</div> <div>84 m</div> <div>90 m</div> <div>96 m</div> <div>102 m</div> <div>108 m</div> </div> <div>SSL_1</div>  </div>                                                                                                                                                                                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |    |
| <div>  <div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> </div>  </div>                                                                          |       |       |       |       |       |       |       |       |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m  |
| 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 215,0 | 376,0 | 205,0 | 338,0 | -     | -     | -     | -     | -     | -     | -     | -     | 11 |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 197,0 | 376,0 | 188,0 | 338,0 | 181,0 | 303,0 | 173,0 | 268,0 | -     | -     | -     | -     | 12 |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 183,0 | 376,0 | 174,5 | 338,0 | 168,5 | 303,0 | 161,0 | 268,0 | 154,0 | 237,0 | 147,0 | 209,0 | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 169,0 | 376,0 | 161,0 | 338,0 | 156,0 | 303,0 | 149,0 | 268,0 | 143,0 | 237,0 | 137,0 | 209,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 147,0 | 372,0 | 140,0 | 338,0 | 136,0 | 303,0 | 130,0 | 268,0 | 125,0 | 237,0 | 119,0 | 209,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 129,0 | 369,0 | 124,0 | 334,0 | 120,0 | 303,0 | 115,0 | 268,0 | 110,0 | 237,0 | 105,0 | 208,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 114,0 | 367,0 | 110,0 | 331,0 | 107,0 | 299,0 | 102,0 | 268,0 | 98,0  | 237,0 | 93,5  | 208,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 102,0 | 364,0 | 98,0  | 329,0 | 95,5  | 296,0 | 91,5  | 267,0 | 87,5  | 235,0 | 83,5  | 207,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 92,5  | 341,0 | 88,5  | 326,0 | 86,0  | 294,0 | 82,0  | 264,0 | 78,5  | 233,0 | 75,0  | 204,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 83,0  | 314,0 | 80,0  | 312,0 | 78,0  | 292,0 | 74,5  | 262,0 | 71,0  | 230,0 | 67,5  | 201,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 73,5  | 289,0 | 72,0  | 287,0 | 71,0  | 287,0 | 67,5  | 259,0 | 64,0  | 228,0 | 60,5  | 199,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 65,5  | 268,0 | 64,5  | 266,0 | 64,5  | 266,0 | 61,0  | 252,0 | 58,0  | 227,0 | 55,0  | 197,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 53,9  | 235,3 | 52,5  | 233,3 | 52,5  | 233,3 | 50,4  | 227,3 | 48,6  | 215,3 | 45,8  | 189,3 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 43,8  | 207,0 | 42,2  | 205,0 | 42,3  | 205,0 | 40,9  | 203,3 | 39,7  | 201,0 | 37,4  | 181,6 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35,4  | 183,0 | 33,7  | 181,0 | 33,8  | 181,0 | 32,3  | 180,0 | 31,1  | 179,0 | 29,8  | 175,0 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 29,3  | 163,6 | 27,6  | 161,6 | 27,6  | 161,6 | 26,1  | 160,6 | 24,9  | 159,6 | 23,5  | 157,6 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 24,0  | 146,6 | 22,3  | 145,0 | 22,3  | 145,0 | 20,6  | 143,6 | 19,4  | 142,6 | 18,0  | 141,6 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 19,6  | 132,0 | 17,7  | 131,0 | 17,7  | 131,0 | 16,0  | 129,0 | 14,8  | 128,0 | 13,3  | 127,0 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16,1  | 120,6 | 14,2  | 119,6 | 14,1  | 119,0 | 12,4  | 117,6 | 11,1  | 116,6 | 9,6   | 115,6 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13,0  | 110,6 | 11,1  | 109,3 | 10,9  | 108,6 | 9,2   | 107,5 | 7,8   | 106,4 | 6,2   | 104,6 | 62 |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12,4  | 108,5 | 10,4  | 107,0 | 10,2  | 106,5 | 8,5   | 105,2 | 7,0   | 104,1 | 5,5   | 102,0 | 63 |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11,0  | 104,1 | 9,0   | 102,3 | 8,8   | 102,1 | 7,1   | 100,7 | 5,6   | 99,5  | -     | 98,0  | 65 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10,4  | 102,0 | 8,4   | 100,0 | 8,1   | 100,0 | 6,4   | 98,5  | -     | 97,5  | -     | 96,0  | 66 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9,4   | 97,5  | 7,3   | 96,5  | 6,9   | 96,2  | 5,1   | 94,5  | -     | 93,6  | -     | 92,3  | 68 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8,4   | 93,0  | 6,2   | 93,0  | 5,8   | 92,4  | -     | 91,0  | -     | 89,8  | -     | 88,6  | 70 |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | 5,7   | 91,2  | 5,3   | 90,5  | -     | 89,2  | -     | 87,9  | -     | 86,8  | 71 |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | 5,2   | 89,5  | -     | 89,0  | -     | 87,5  | -     | 86,0  | -     | 85,0  | 72 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | 85,8  | -     | 86,0  | -     | 84,3  | -     | 83,0  | -     | 81,8  | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | 84,0  | -     | 84,5  | -     | 82,7  | -     | 81,5  | -     | 80,2  | 75 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | 80,0  | -     | 78,0  | -     | 77,0  | -     | 75,5  | 78 |
| 80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | 77,0  | -     | 75,5  | -     | 74,3  | -     | 72,8  | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | 73,0  | -     | 71,6  | -     | 70,1  | 82 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | 69,0  | -     | 67,9  | -     | 66,3  | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | 66,8  | -     | 65,1  | 86 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | 62,5  | -     | 60,5  | 90 |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 56,5  | 94 |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 54,5  | 96 |



0 t

125 t

165 t

205 t

245 t

285 t

325 t



# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  165 t +  50 t |       |  11-21 m |                                                                                        |                                                                                       |                                                                                        |  8,40 m  |                                                                                        |                                                                                       |       |  9.8 m/s |       |                                                                                        |                                                                                          | 360°                                                                                       |       | EN13000                                                                                 |   |                                                                                             |    |       |  |       |  |        |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-------|-----------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------|----|-------|--|-------|--|--------|--|--|
|  54 m                                                                                           |       |                                                                                           |  60 m |                                                                                       |  66 m |                                                                                           |  72 m |                                                                                       |       |  78 m    |       |                                                                                        |  81 m |                                                                                            |       |                                                                                         |   |                                                                                             |    |       |  |       |  |        |  |  |
| LSL_2                                                                                                                                                                            |       |                                                                                           |                                                                                        |                                                                                       |                                                                                        |                                                                                           |                                                                                        |                                                                                       |       |                                                                                            |       |                                                                                        |                                                                                          |                                                                                            |       | LSL_1                                                                                   |   | LSL_2                                                                                       |    | LSL_1 |  | LSL_2 |  | LSL_15 |  |  |
|  0 t                                                                                            |       |  0t-325t |                                                                                        |  0 t |                                                                                        |  0t-325t |                                                                                        |  0 t |       |  0t-325t  |       |  0 t |                                                                                          |  0t-325t |       |  0 t |   |  0t-325t |    |       |  |       |  |        |  |  |
| m                                                                                                                                                                                | t     | t                                                                                         | t                                                                                      | t                                                                                     | t                                                                                      | t                                                                                         | t                                                                                      | t                                                                                     | t     | t                                                                                          | t     | t                                                                                      | t                                                                                        | t                                                                                          | t     | t                                                                                       | t | t                                                                                           | m  |       |  |       |  |        |  |  |
| 8                                                                                                                                                                                | 347,0 | 347,0                                                                                     | -                                                                                      | -                                                                                     | -                                                                                      | -                                                                                         | -                                                                                      | -                                                                                     | -     | -                                                                                          | -     | -                                                                                      | -                                                                                        | -                                                                                          | -     | -                                                                                       | - | -                                                                                           | 8  |       |  |       |  |        |  |  |
| 9                                                                                                                                                                                | 320,0 | 347,0                                                                                     | 302,0                                                                                  | 347,0                                                                                 | 286,0                                                                                  | 347,0                                                                                     | -                                                                                      | -                                                                                     | -     | -                                                                                          | -     | -                                                                                      | -                                                                                        | -                                                                                          | -     | -                                                                                       | - | -                                                                                           | 9  |       |  |       |  |        |  |  |
| 10                                                                                                                                                                               | 287,0 | 347,0                                                                                     | 272,0                                                                                  | 347,0                                                                                 | 258,0                                                                                  | 347,0                                                                                     | 252,0                                                                                  | 347,0                                                                                 | 347,0 | 240,0                                                                                      | 325,0 | 331,0                                                                                  | 347,0                                                                                    | -                                                                                          | -     | -                                                                                       | - | -                                                                                           | 10 |       |  |       |  |        |  |  |
| 11                                                                                                                                                                               | 261,5 | 347,0                                                                                     | 248,5                                                                                  | 347,0                                                                                 | 236,5                                                                                  | 347,0                                                                                     | 232,0                                                                                  | 347,0                                                                                 | 347,0 | 221,0                                                                                      | 325,0 | 331,0                                                                                  | 347,0                                                                                    | 248,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 11 |       |  |       |  |        |  |  |
| 12                                                                                                                                                                               | 236,0 | 347,0                                                                                     | 225,0                                                                                  | 347,0                                                                                 | 215,0                                                                                  | 347,0                                                                                     | 212,0                                                                                  | 347,0                                                                                 | 347,0 | 202,0                                                                                      | 325,0 | 331,0                                                                                  | 347,0                                                                                    | 228,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 12 |       |  |       |  |        |  |  |
| 14                                                                                                                                                                               | 200,0 | 347,0                                                                                     | 191,0                                                                                  | 347,0                                                                                 | 183,0                                                                                  | 347,0                                                                                     | 182,0                                                                                  | 347,0                                                                                 | 347,0 | 174,0                                                                                      | 325,0 | 331,0                                                                                  | 347,0                                                                                    | 196,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 14 |       |  |       |  |        |  |  |
| 16                                                                                                                                                                               | 173,0 | 347,0                                                                                     | 166,0                                                                                  | 347,0                                                                                 | 159,0                                                                                  | 347,0                                                                                     | 158,0                                                                                  | 347,0                                                                                 | 347,0 | 152,0                                                                                      | 323,0 | 328,0                                                                                  | 347,0                                                                                    | 171,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 16 |       |  |       |  |        |  |  |
| 18                                                                                                                                                                               | 151,0 | 347,0                                                                                     | 146,0                                                                                  | 347,0                                                                                 | 140,0                                                                                  | 347,0                                                                                     | 140,0                                                                                  | 347,0                                                                                 | 347,0 | 134,0                                                                                      | 322,0 | 328,0                                                                                  | 347,0                                                                                    | 151,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 18 |       |  |       |  |        |  |  |
| 20                                                                                                                                                                               | 131,0 | 347,0                                                                                     | 129,0                                                                                  | 347,0                                                                                 | 124,0                                                                                  | 347,0                                                                                     | 125,0                                                                                  | 347,0                                                                                 | 347,0 | 120,0                                                                                      | 322,0 | 328,0                                                                                  | 347,0                                                                                    | 134,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 20 |       |  |       |  |        |  |  |
| 22                                                                                                                                                                               | 114,0 | 347,0                                                                                     | 113,0                                                                                  | 347,0                                                                                 | 111,0                                                                                  | 347,0                                                                                     | 112,0                                                                                  | 337,0                                                                                 | 343,0 | 108,0                                                                                      | 321,0 | 325,0                                                                                  | 347,0                                                                                    | 121,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 22 |       |  |       |  |        |  |  |
| 24                                                                                                                                                                               | 100,0 | 347,0                                                                                     | 99,5                                                                                   | 347,0                                                                                 | 97,5                                                                                   | 346,0                                                                                     | 101,0                                                                                  | 326,0                                                                                 | 332,0 | 98,0                                                                                       | 308,0 | 313,0                                                                                  | 347,0                                                                                    | 109,0                                                                                      | 347,0 | -                                                                                       | - | -                                                                                           | 24 |       |  |       |  |        |  |  |
| 26                                                                                                                                                                               | 89,5  | 323,0                                                                                     | 88,0                                                                                   | 321,0                                                                                 | 86,5                                                                                   | 319,0                                                                                     | 89,5                                                                                   | 316,0                                                                                 | 319,0 | 88,0                                                                                       | 296,0 | 300,0                                                                                  | 330,0                                                                                    | 99,2                                                                                       | 329,5 | -                                                                                       | - | -                                                                                           | 26 |       |  |       |  |        |  |  |
| 28                                                                                                                                                                               | 80,5  | 299,0                                                                                     | 79,0                                                                                   | 297,0                                                                                 | 77,5                                                                                   | 295,0                                                                                     | 80,5                                                                                   | 298,0                                                                                 | 295,0 | 78,5                                                                                       | 284,0 | 288,0                                                                                  | 313,0                                                                                    | 89,5                                                                                       | 312,0 | -                                                                                       | - | -                                                                                           | 28 |       |  |       |  |        |  |  |
| 30                                                                                                                                                                               | 72,5  | 278,0                                                                                     | 71,5                                                                                   | 276,0                                                                                 | 69,5                                                                                   | 274,0                                                                                     | 72,5                                                                                   | 277,0                                                                                 | 274,0 | 70,5                                                                                       | 273,0 | 272,0                                                                                  | 292,0                                                                                    | 80,7                                                                                       | 290,5 | -                                                                                       | - | -                                                                                           | 30 |       |  |       |  |        |  |  |
| 34                                                                                                                                                                               | 61,1  | 245,3                                                                                     | 59,8                                                                                   | 243,3                                                                                 | 57,8                                                                                   | 241,3                                                                                     | 60,5                                                                                   | 244,3                                                                                 | 241,3 | 58,8                                                                                       | 241,0 | 239,3                                                                                  | 254,0                                                                                    | 65,7                                                                                       | 252,5 | -                                                                                       | - | -                                                                                           | 34 |       |  |       |  |        |  |  |
| 38                                                                                                                                                                               | 51,7  | 216,3                                                                                     | 50,1                                                                                   | 214,3                                                                                 | 48,2                                                                                   | 212,3                                                                                     | 50,6                                                                                   | 215,0                                                                                 | 212,6 | 49,0                                                                                       | 212,6 | 210,6                                                                                  | 223,0                                                                                    | 54,6                                                                                       | 222,0 | -                                                                                       | - | -                                                                                           | 38 |       |  |       |  |        |  |  |
| 42                                                                                                                                                                               | 44,1  | 191,0                                                                                     | 42,5                                                                                   | 189,0                                                                                 | 40,6                                                                                   | 187,0                                                                                     | 42,9                                                                                   | 189,0                                                                                 | 188,0 | 41,2                                                                                       | 188,0 | 186,0                                                                                  | 198,3                                                                                    | 45,7                                                                                       | 197,3 | -                                                                                       | - | -                                                                                           | 42 |       |  |       |  |        |  |  |
| 46                                                                                                                                                                               | 38,6  | 165,6                                                                                     | 36,9                                                                                   | 170,3                                                                                 | 34,8                                                                                   | 168,3                                                                                     | 37,1                                                                                   | 170,3                                                                                 | 168,6 | 35,2                                                                                       | 168,6 | 167,3                                                                                  | 177,0                                                                                    | 37,7                                                                                       | 176,0 | -                                                                                       | - | -                                                                                           | 46 |       |  |       |  |        |  |  |
| 49                                                                                                                                                                               | 34,8  | 147,0                                                                                     | 33,1                                                                                   | 156,3                                                                                 | 30,9                                                                                   | 155,3                                                                                     | 33,1                                                                                   | 157,3                                                                                 | 155,5 | 31,0                                                                                       | 155,3 | 154,3                                                                                  | 164,5                                                                                    | 33,3                                                                                       | 163,5 | -                                                                                       | - | -                                                                                           | 49 |       |  |       |  |        |  |  |
| 50                                                                                                                                                                               | -     | -                                                                                         | 32,1                                                                                   | 151,6                                                                                 | 29,8                                                                                   | 151,6                                                                                     | 32,0                                                                                   | 153,6                                                                                 | 152,0 | 29,9                                                                                       | 151,6 | 150,6                                                                                  | 160,3                                                                                    | 31,8                                                                                       | 159,3 | -                                                                                       | - | -                                                                                           | 50 |       |  |       |  |        |  |  |
| 54                                                                                                                                                                               | -     | -                                                                                         | 27,9                                                                                   | 133,0                                                                                 | 25,5                                                                                   | 137,0                                                                                     | 27,6                                                                                   | 139,0                                                                                 | 138,0 | 25,4                                                                                       | 137,0 | 136,0                                                                                  | 145,6                                                                                    | 26,6                                                                                       | 144,6 | -                                                                                       | - | -                                                                                           | 54 |       |  |       |  |        |  |  |
| 58                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | 22,1                                                                                   | 123,4                                                                                     | 24,2                                                                                   | 127,6                                                                                 | 126,6 | 21,9                                                                                       | 125,6 | 124,6                                                                                  | 133,0                                                                                    | 22,2                                                                                       | 132,0 | -                                                                                       | - | -                                                                                           | 58 |       |  |       |  |        |  |  |
| 59                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | 21,3                                                                                   | 120,0                                                                                     | 23,3                                                                                   | 124,8                                                                                 | 123,8 | 21,0                                                                                       | 122,8 | 121,8                                                                                  | 130,3                                                                                    | 21,3                                                                                       | 129,3 | -                                                                                       | - | -                                                                                           | 59 |       |  |       |  |        |  |  |
| 62                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | -                                                                                      | -                                                                                         | 21,1                                                                                   | 117,5                                                                                 | 116,5 | 18,8                                                                                       | 115,6 | 114,6                                                                                  | 122,3                                                                                    | 18,7                                                                                       | 121,3 | -                                                                                       | - | -                                                                                           | 62 |       |  |       |  |        |  |  |
| 64                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | -                                                                                      | -                                                                                         | 19,8                                                                                   | 113,0                                                                                 | 112,0 | 17,5                                                                                       | 111,3 | 110,3                                                                                  | 117,0                                                                                    | 17,0                                                                                       | 116,0 | -                                                                                       | - | -                                                                                           | 64 |       |  |       |  |        |  |  |
| 66                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | -                                                                                      | -                                                                                         | -                                                                                      | -                                                                                     | -     | 16,2                                                                                       | 107,0 | 106,0                                                                                  | 112,6                                                                                    | 15,6                                                                                       | 111,6 | -                                                                                       | - | -                                                                                           | 66 |       |  |       |  |        |  |  |
| 69                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | -                                                                                      | -                                                                                         | -                                                                                      | -                                                                                     | -     | 14,6                                                                                       | 99,5  | 99,0                                                                                   | 106,0                                                                                    | 13,5                                                                                       | 105,1 | -                                                                                       | - | -                                                                                           | 69 |       |  |       |  |        |  |  |
| 70                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | -                                                                                      | -                                                                                         | -                                                                                      | -                                                                                     | -     | -                                                                                          | -     | -                                                                                      | -                                                                                        | 12,9                                                                                       | 103,0 | -                                                                                       | - | -                                                                                           | 70 |       |  |       |  |        |  |  |
| 72                                                                                                                                                                               | -     | -                                                                                         | -                                                                                      | -                                                                                     | -                                                                                      | -                                                                                         | -                                                                                      | -                                                                                     | -     | -                                                                                          | -     | -                                                                                      | -                                                                                        | 11,7                                                                                       | 99,5  | -                                                                                       | - | -                                                                                           | 72 |       |  |       |  |        |  |  |

|  |     |      |       |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|--|-----|------|-------|-------|-------|-------|-------|-------|

LSL\_1, LSL\_2: 11-19 m

LSL\_15: 13-21 m

LSL\_15: 225 t + 50 t

# Operation

LSL

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Operação · Эксплуатация

| 165 t + 50 t |       | 11-21 m   |       | 8,40 m |       | 9.8 m/s   |       | 360°  |       | EN13000   |       |
|--------------|-------|-----------|-------|--------|-------|-----------|-------|-------|-------|-----------|-------|
| 84 m         |       | 87 m      |       | 90 m   |       | 93 m      |       | 96 m  |       |           |       |
| LSL_1        |       | LSL_2     |       | LSL_15 |       | LSL_1     |       | LSL_2 |       | LSL_7     |       |
| 0 t          |       | 0 t-325 t |       | 0 t    |       | 0 t-325 t |       | 0 t   |       | 0 t-325 t |       |
| m            | t     | t         | t     | t      | t     | t         | t     | t     | t     | t         | t     |
| 11           | 211,0 | 271,0     | 300,0 | 347,0  | 237,0 | 347,0     | 202,0 | 250,0 | 276,0 | 347,0     | -     |
| 12           | 195,0 | 271,0     | 300,0 | 347,0  | 218,0 | 347,0     | 187,0 | 250,0 | 276,0 | 347,0     | 209,0 |
| 14           | 169,0 | 271,0     | 300,0 | 347,0  | 188,0 | 347,0     | 162,0 | 248,0 | 275,0 | 347,0     | 180,0 |
| 16           | 148,0 | 270,0     | 299,0 | 347,0  | 164,0 | 347,0     | 142,0 | 248,0 | 274,0 | 347,0     | 157,0 |
| 18           | 131,0 | 264,0     | 292,0 | 347,0  | 145,0 | 347,0     | 126,0 | 242,0 | 267,0 | 347,0     | 139,0 |
| 20           | 117,0 | 261,0     | 290,0 | 347,0  | 129,0 | 347,0     | 112,0 | 236,0 | 261,0 | 347,0     | 124,0 |
| 22           | 106,0 | 259,0     | 289,0 | 347,0  | 116,0 | 347,0     | 101,0 | 232,0 | 257,0 | 347,0     | 111,0 |
| 24           | 96,0  | 253,0     | 283,0 | 347,0  | 105,0 | 347,0     | 92,0  | 227,0 | 252,0 | 347,0     | 100,0 |
| 26           | 87,5  | 244,0     | 272,0 | 329,0  | 95,7  | 328,0     | 84,0  | 220,0 | 244,0 | 327,5     | 91,2  |
| 28           | 79,5  | 235,0     | 261,0 | 311,0  | 86,5  | 309,0     | 77,0  | 211,0 | 235,0 | 308,0     | 82,5  |
| 30           | 71,5  | 226,0     | 251,0 | 289,5  | 78,5  | 288,0     | 70,5  | 203,0 | 226,0 | 287,0     | 75,5  |
| 34           | 59,5  | 207,3     | 229,6 | 251,5  | 64,0  | 250,5     | 58,5  | 187,0 | 207,3 | 249,5     | 62,2  |
| 38           | 49,6  | 190,0     | 208,0 | 221,0  | 52,6  | 220,0     | 48,5  | 171,0 | 189,0 | 219,5     | 50,7  |
| 42           | 41,9  | 174,0     | 186,0 | 196,3  | 43,7  | 195,3     | 40,7  | 155,0 | 171,0 | 195,0     | 41,4  |
| 46           | 35,9  | 159,3     | 166,6 | 175,0  | 35,7  | 174,0     | 34,5  | 142,3 | 156,3 | 173,0     | 33,4  |
| 50           | 30,6  | 145,6     | 149,6 | 158,3  | 29,8  | 157,3     | 29,2  | 130,3 | 142,3 | 157,0     | 27,4  |
| 54           | 26,0  | 133,0     | 135,0 | 143,6  | 24,6  | 142,6     | 24,6  | 119,0 | 129,0 | 142,3     | 22,2  |
| 58           | 22,4  | 121,0     | 123,6 | 131,0  | 20,1  | 130,0     | 21,0  | 109,0 | 116,3 | 129,0     | 17,7  |
| 62           | 19,3  | 109,5     | 112,6 | 120,3  | 16,5  | 119,3     | 17,7  | 99,5  | 104,6 | 118,3     | 14,1  |
| 66           | 16,5  | 99,0      | 102,0 | 110,6  | 13,4  | 109,6     | 14,9  | 90,5  | 95,0  | 109,0     | 10,9  |
| 70           | 14,3  | 90,6      | 91,6  | 102,0  | 10,6  | 101,0     | 12,6  | 83,1  | 86,0  | 101,0     | 8,1   |
| 74           | 12,3  | 82,1      | 83,5  | 95,2   | 8,2   | 94,3      | 10,6  | 76,5  | 77,3  | 93,6      | 5,5   |
| 75           | 11,9  | 80,0      | 82,0  | 93,5   | 7,6   | 92,6      | 10,1  | 74,7  | 75,2  | 91,8      | 4,9   |
| 76           | -     | -         | -     | -      | 7,1   | 91,0      | 9,7   | 73,0  | 73,1  | 90,0      | 4,3   |
| 77           | -     | -         | -     | -      | 6,5   | 89,5      | 9,2   | 71,2  | 71,0  | 88,5      | -     |
| 78           | -     | -         | -     | -      | -     | -         | 8,8   | 69,5  | 69,0  | 87,0      | -     |
| 80           | -     | -         | -     | -      | -     | -         | 8,0   | 66,0  | 67,0  | 84,0      | -     |
| 82           | -     | -         | -     | -      | -     | -         | -     | -     | -     | -         | 80,0  |
| 85           | -     | -         | -     | -      | -     | -         | -     | -     | -     | -         | 4,9   |

|     |      |       |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|
| 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-----|------|-------|-------|-------|-------|-------|-------|

LSL\_1, LSL\_2, LSL\_7: 11-19 m

LSL\_15: 13-21 m

LSL\_15: 225 t + 50 t

# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  165 t +  50 t            11-21 m            8,40 m            9.8 m/s           360°           EN13000         </div>                                                                                                                                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| <div>  99 m            102 m            105 m         </div>                                                                                                                                                                                                                                                                                                                                                                                                                  |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| <div>  0 t            0 t-325 t            0 t            0 t-325 t            0 t            0 t-325 t            0 t         </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m  |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 166,0 | 253,0 | 314,0 | 172,0 | 196,0 | 218,0 | 239,0 | 267,0 | 274,0 | 314,0 | -     | -     | -     | -     | -     | 12 |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 154,5 | 253,0 | 314,0 | 160,5 | 196,0 | 217,0 | 239,0 | 267,0 | 273,0 | 314,0 | 147,0 | 227,0 | 255,0 | 262,0 | 310,0 | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 143,0 | 253,0 | 314,0 | 149,0 | 196,0 | 216,0 | 239,0 | 267,0 | 272,0 | 314,0 | 137,0 | 227,0 | 255,0 | 261,0 | 310,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 125,0 | 253,0 | 314,0 | 131,0 | 196,0 | 216,0 | 239,0 | 267,0 | 271,0 | 314,0 | 119,0 | 227,0 | 255,0 | 260,0 | 310,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 110,0 | 253,0 | 314,0 | 117,0 | 196,0 | 216,0 | 239,0 | 265,0 | 269,0 | 314,0 | 105,0 | 227,0 | 253,0 | 258,0 | 309,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 98,0  | 252,0 | 314,0 | 104,0 | 195,0 | 216,0 | 239,0 | 264,0 | 266,0 | 314,0 | 93,5  | 227,0 | 251,0 | 256,0 | 307,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 87,5  | 247,0 | 314,0 | 94,5  | 194,0 | 216,0 | 234,0 | 263,0 | 264,0 | 314,0 | 83,5  | 223,0 | 251,0 | 254,0 | 305,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 78,5  | 245,0 | 314,0 | 85,5  | 194,0 | 215,0 | 230,0 | 258,0 | 260,0 | 314,0 | 75,0  | 217,0 | 246,0 | 252,0 | 301,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 71,0  | 244,0 | 308,5 | 78,0  | 193,0 | 215,0 | 229,0 | 255,0 | 257,0 | 306,5 | 67,5  | 216,0 | 242,0 | 249,0 | 295,5 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 64,0  | 244,0 | 303,0 | 71,0  | 192,0 | 215,0 | 228,0 | 251,0 | 252,0 | 299,0 | 61,0  | 214,0 | 239,0 | 245,0 | 290,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 58,5  | 237,0 | 282,5 | 65,0  | 190,0 | 214,0 | 224,0 | 243,0 | 245,0 | 280,0 | 55,0  | 212,0 | 231,0 | 238,0 | 275,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 48,9  | 221,6 | 245,5 | 55,3  | 181,6 | 208,3 | 209,0 | 226,3 | 230,3 | 244,5 | 45,9  | 197,6 | 215,0 | 222,0 | 243,5 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 39,9  | 202,3 | 216,0 | 46,5  | 170,3 | 198,6 | 194,0 | 210,0 | 213,0 | 214,5 | 37,4  | 184,3 | 199,3 | 206,3 | 213,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 31,4  | 179,0 | 192,3 | 38,5  | 165,0 | 182,0 | 178,0 | 194,0 | 193,0 | 190,6 | 29,4  | 171,0 | 184,0 | 191,0 | 189,6 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25,2  | 159,6 | 171,0 | 32,2  | 157,3 | 162,6 | 159,3 | 174,0 | 173,0 | 170,0 | 23,2  | 156,3 | 170,0 | 171,6 | 169,0 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 19,9  | 143,0 | 155,0 | 26,7  | 148,0 | 146,0 | 142,6 | 156,0 | 155,3 | 153,3 | 17,9  | 141,6 | 155,0 | 154,3 | 152,3 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15,3  | 129,0 | 140,3 | 22,1  | 134,0 | 132,0 | 128,0 | 140,0 | 140,0 | 138,6 | 13,3  | 127,0 | 139,0 | 139,0 | 137,6 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 11,7  | 117,0 | 127,0 | 18,4  | 122,6 | 120,0 | 116,6 | 128,0 | 127,3 | 126,0 | 9,7   | 115,6 | 127,0 | 126,3 | 125,0 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8,5   | 106,6 | 116,3 | 15,1  | 112,3 | 109,6 | 106,3 | 117,3 | 116,3 | 115,3 | 6,4   | 105,4 | 116,3 | 115,3 | 114,3 | 62 |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6,4   | 100,1 | 108,9 | 13,0  | 105,3 | 103,1 | 99,3  | 110,3 | 109,3 | 107,9 | 4,2   | 98,5  | 109,3 | 108,3 | 106,9 | 65 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5,7   | 98,0  | 106,8 | 12,3  | 103,0 | 101,0 | 97,0  | 108,0 | 107,0 | 105,8 | -     | 96,0  | 107,0 | 106,0 | 104,8 | 66 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4,5   | 94,0  | 102,6 | 11,1  | 99,5  | 97,3  | 93,2  | 104,0 | 102,7 | 101,6 | -     | 92,3  | 102,7 | 101,0 | 100,6 | 68 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 90,5  | 98,5  | 9,9   | 96,0  | 93,6  | 89,6  | 100,0 | 98,5  | 97,5  | -     | 88,6  | 98,5  | 97,5  | 96,5  | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 83,8  | 91,1  | 7,7   | 89,3  | 86,6  | 82,8  | 92,6  | 91,6  | 90,4  | -     | 81,8  | 91,5  | 90,6  | 89,5  | 74 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 77,5  | 84,5  | 5,9   | 83,0  | 80,5  | 76,5  | 86,0  | 85,0  | 84,0  | -     | 75,5  | 84,5  | 84,0  | 82,8  | 78 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 72,1  | 78,5  | 4,2   | 77,5  | 75,1  | 71,5  | 80,3  | 79,3  | 78,0  | -     | 68,1  | 77,8  | 78,3  | 76,5  | 82 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 67,2  | 73,5  | -     | 72,8  | 70,3  | 65,5  | 74,5  | 74,1  | 72,6  | -     | 60,8  | 70,6  | 72,1  | 71,5  | 86 |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 65,0  | 71,0  | -     | 70,6  | 68,1  | 62,0  | 71,5  | 71,8  | 70,0  | -     | 57,1  | 66,8  | 68,8  | 69,0  | 88 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | 68,5  | 66,0  | 58,5  | 68,5  | 69,5  | 67,5  | -     | 55,0  | 63,5  | 65,5  | 66,8  | 90 |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 50,0  | 59,5  | 59,5  | 63,5  | 93 |

 0 t
  65 t
  125 t
  165 t
  205 t
  245 t
  285 t
  325 t

LSL\_1 – LSL\_7:  11-19 m

LSL\_9 – LSL\_11:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t

# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  165 t +  50 t            11-21 m            8,40 m            9.8 m/s           360°           EN13000         </div> |       |       |       |       |       |       |       |       |       |       |       |       |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| <div>  <div> <div>108 m</div> <div>LSL_1 LSL_2 LSL_7 LSL_9 LSL_11 LSL_15</div> <div>0 t 0 t-325 t</div> </div> <div> <div>111 m</div> <div>LSL_7 LSL_9 LSL_11 LSL_15</div> <div>0 t 0 t-325 t</div> </div>  </div>                                                                                                                                                             |       |       |       |       |       |       |       |       |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m  |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 153,0 | 177,0 | 195,0 | 217,0 | 242,0 | 251,0 | 281,0 | 140,0 | 207,0 | 231,0 | 240,0 | 281,0 | 13 |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 143,0 | 177,0 | 195,0 | 217,0 | 242,0 | 251,0 | 281,0 | 130,0 | 207,0 | 231,0 | 240,0 | 281,0 | 14 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 125,0 | 177,0 | 195,0 | 217,0 | 242,0 | 249,0 | 281,0 | 114,0 | 207,0 | 231,0 | 239,0 | 281,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 111,0 | 177,0 | 195,0 | 217,0 | 242,0 | 248,0 | 281,0 | 100,0 | 205,0 | 231,0 | 238,0 | 281,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100,0 | 176,0 | 195,0 | 216,0 | 242,0 | 245,0 | 281,0 | 89,0  | 203,0 | 231,0 | 236,0 | 280,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 90,0  | 176,0 | 195,0 | 214,0 | 242,0 | 244,0 | 281,0 | 79,5  | 201,0 | 231,0 | 234,0 | 278,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 81,5  | 175,0 | 195,0 | 208,0 | 240,0 | 243,0 | 281,0 | 71,0  | 197,0 | 229,0 | 233,0 | 275,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 74,0  | 175,0 | 194,0 | 205,0 | 238,0 | 239,0 | 280,0 | 64,0  | 194,0 | 227,0 | 228,0 | 270,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 67,5  | 174,0 | 194,0 | 203,0 | 236,0 | 236,0 | 279,0 | 57,5  | 191,0 | 227,0 | 224,0 | 265,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 61,5  | 174,0 | 194,0 | 201,0 | 235,0 | 230,0 | 268,0 | 52,0  | 189,0 | 225,0 | 219,0 | 256,5 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 52,4  | 170,0 | 191,3 | 188,3 | 220,0 | 214,0 | 241,5 | 43,0  | 177,6 | 213,0 | 203,0 | 236,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 44,2  | 163,0 | 184,3 | 175,3 | 207,0 | 198,3 | 212,5 | 35,0  | 165,6 | 201,3 | 187,6 | 211,0 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 36,9  | 158,0 | 181,0 | 162,0 | 191,0 | 183,0 | 188,6 | 28,1  | 153,0 | 190,0 | 173,0 | 187,3 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30,6  | 151,0 | 161,6 | 150,0 | 171,6 | 168,3 | 168,0 | 21,9  | 141,0 | 170,6 | 159,6 | 166,0 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25,1  | 143,6 | 144,6 | 138,3 | 154,0 | 153,3 | 152,0 | 16,5  | 129,6 | 153,0 | 146,6 | 150,0 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20,4  | 133,0 | 130,0 | 127,0 | 138,0 | 138,0 | 137,6 | 11,9  | 119,0 | 137,0 | 134,0 | 135,6 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 16,7  | 121,6 | 118,6 | 115,0 | 126,0 | 126,0 | 125,0 | 8,2   | 109,0 | 125,0 | 123,3 | 123,0 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13,4  | 111,3 | 108,5 | 104,5 | 115,3 | 115,0 | 114,3 | 4,9   | 99,6  | 114,0 | 113,2 | 113,0 | 62 |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12,7  | 109,0 | 106,2 | 102,2 | 113,0 | 112,5 | 111,6 | 4,2   | 97,5  | 111,5 | 110,8 | 110,5 | 63 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10,5  | 102,0 | 99,5  | 96,0  | 106,0 | 105,0 | 104,3 | -     | 91,0  | 104,0 | 103,0 | 103,0 | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8,1   | 94,6  | 91,9  | 88,3  | 97,2  | 97,0  | 96,5  | -     | 82,6  | 96,3  | 94,6  | 95,5  | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 5,9   | 87,8  | 85,0  | 80,5  | 90,1  | 89,6  | 89,1  | -     | 74,6  | 89,1  | 86,5  | 88,1  | 74 |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4,4   | 83,0  | 80,5  | 74,5  | 85,1  | 84,6  | 84,0  | -     | 68,9  | 84,1  | 80,5  | 83,0  | 77 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 81,5  | 79,0  | 72,5  | 83,5  | 83,0  | 82,5  | -     | 67,0  | 82,5  | 78,5  | 81,5  | 78 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 76,1  | 73,6  | 64,8  | 77,8  | 76,6  | 76,5  | -     | 60,0  | 76,8  | 70,8  | 75,5  | 82 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 71,1  | 68,6  | 57,8  | 72,6  | 69,6  | 71,1  | -     | 53,2  | 71,6  | 64,1  | 70,1  | 86 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 66,5  | 64,0  | 51,5  | 68,0  | 62,0  | 66,3  | -     | 46,8  | 67,0  | 57,5  | 65,0  | 90 |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 62,5  | 60,4  | 45,0  | 64,0  | 55,9  | 62,0  | -     | 41,0  | 62,6  | 50,6  | 60,0  | 94 |
| 95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | 61,5  | 59,5  | 43,4  | 63,0  | 54,5  | 61,0  | -     | 39,7  | 61,5  | 49,7  | 59,0  | 95 |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -     | -     | -     | -     | -     | -     | -     | -     | 35,4  | 59,0  | 45,6  | 56,0  | 98 |



0 t

65 t

125 t

165 t

205 t

245 t

285 t

325 t

LSL\_1 – LSL\_7:  11-19 m

LSL\_9 – LSL\_11:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t

# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
|  <div> <div>114 m</div> <div>LSL_1 LSL_2 LSL_5 LSL_7 LSL_9 LSL_11 LSL_15</div> <div>0 t 0 t-325 t</div> </div> <div> <div>117 m</div> <div>LSL_5 LSL_7 LSL_9 LSL_11 LSL_15</div> <div>0 t 0 t-325 t</div> </div>                                                                                                            |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m   |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 146,0 | 162,0 | 176,0 | 185,0 | 195,0 | 219,0 | 230,0 | 270,0 | -     | -     | -     | -     | -     | -     | 13  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 137,0 | 162,0 | 175,0 | 185,0 | 195,0 | 219,0 | 230,0 | 270,0 | 127,0 | 175,0 | 184,0 | 209,0 | 220,0 | 247,0 | 14  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 120,0 | 162,0 | 175,0 | 185,0 | 195,0 | 219,0 | 229,0 | 270,0 | 112,0 | 175,0 | 184,0 | 209,0 | 218,0 | 247,0 | 16  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 107,0 | 161,0 | 175,0 | 185,0 | 195,0 | 219,0 | 228,0 | 270,0 | 99,0  | 175,0 | 184,0 | 209,0 | 218,0 | 247,0 | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 95,5  | 161,0 | 175,0 | 185,0 | 195,0 | 219,0 | 224,0 | 270,0 | 88,0  | 175,0 | 183,0 | 209,0 | 214,0 | 247,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 86,0  | 160,0 | 175,0 | 185,0 | 195,0 | 219,0 | 223,0 | 270,0 | 78,5  | 175,0 | 183,0 | 208,0 | 211,0 | 247,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 77,5  | 160,0 | 175,0 | 184,0 | 194,0 | 217,0 | 222,0 | 269,0 | 70,5  | 174,0 | 183,0 | 207,0 | 210,0 | 247,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 70,5  | 159,0 | 175,0 | 184,0 | 192,0 | 217,0 | 218,0 | 264,5 | 63,5  | 174,0 | 182,0 | 207,0 | 207,0 | 247,0 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 64,0  | 159,0 | 174,0 | 183,0 | 192,0 | 214,0 | 213,0 | 260,0 | 57,5  | 173,0 | 182,0 | 205,0 | 202,0 | 247,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 58,5  | 159,0 | 174,0 | 179,0 | 191,0 | 211,0 | 208,0 | 252,5 | 52,0  | 172,0 | 181,0 | 204,0 | 197,0 | 241,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 49,6  | 155,6 | 172,6 | 172,3 | 184,3 | 199,3 | 193,3 | 233,5 | 43,2  | 166,6 | 175,6 | 195,0 | 183,0 | 226,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 41,8  | 150,3 | 169,6 | 166,0 | 177,6 | 187,6 | 178,6 | 209,5 | 35,5  | 160,6 | 169,0 | 186,3 | 169,0 | 206,5 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35,0  | 146,0 | 167,0 | 162,0 | 171,0 | 177,0 | 164,0 | 186,3 | 28,9  | 156,0 | 163,0 | 178,0 | 155,0 | 184,6 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28,7  | 140,6 | 156,0 | 153,3 | 155,0 | 165,0 | 151,3 | 165,0 | 23,2  | 151,0 | 151,6 | 165,3 | 142,3 | 164,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 23,2  | 134,6 | 143,6 | 142,6 | 139,6 | 152,3 | 139,0 | 149,0 | 18,0  | 141,6 | 138,6 | 151,3 | 130,3 | 148,0 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18,5  | 130,0 | 129,0 | 128,0 | 125,0 | 137,0 | 127,0 | 134,6 | 13,4  | 127,0 | 124,0 | 136,0 | 119,0 | 133,6 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14,8  | 119,3 | 117,6 | 116,6 | 113,6 | 124,3 | 116,3 | 122,0 | 9,7   | 115,6 | 112,6 | 123,3 | 108,3 | 121,0 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11,5  | 109,3 | 107,5 | 106,3 | 103,0 | 113,2 | 106,5 | 112,0 | 6,4   | 105,4 | 102,7 | 112,3 | 98,5  | 110,0 | 62  |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 9,3   | 102,3 | 100,7 | 99,3  | 96,6  | 106,0 | 99,7  | 104,8 | 4,2   | 98,5  | 95,8  | 105,3 | 92,1  | 103,0 | 65  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8,6   | 100,0 | 98,5  | 97,0  | 94,5  | 104,0 | 97,5  | 102,6 | -     | 96,0  | 93,5  | 103,0 | 90,0  | 101,0 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6,2   | 92,6  | 90,6  | 89,3  | 87,1  | 96,0  | 89,1  | 94,0  | -     | 88,6  | 86,1  | 95,0  | 82,0  | 93,0  | 70  |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4,4   | 87,5  | 85,4  | 84,0  | 81,9  | 90,3  | 83,1  | 88,7  | -     | 83,4  | 80,9  | 89,3  | 76,2  | 87,5  | 73  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 85,9  | 83,8  | 82,5  | 80,3  | 88,6  | 81,3  | 87,0  | -     | 81,8  | 79,3  | 87,6  | 74,5  | 85,6  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 79,5  | 77,5  | 76,5  | 74,0  | 82,0  | 74,0  | 80,5  | -     | 75,5  | 73,0  | 81,0  | 67,5  | 79,0  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 74,1  | 72,1  | 71,1  | 68,6  | 76,3  | 67,0  | 74,5  | -     | 70,1  | 67,6  | 75,3  | 60,8  | 73,0  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 69,3  | 67,3  | 66,1  | 63,6  | 71,0  | 60,1  | 69,1  | -     | 65,1  | 62,5  | 70,0  | 54,5  | 68,0  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 65,0  | 63,0  | 61,5  | 59,0  | 66,0  | 54,0  | 64,1  | -     | 60,5  | 57,5  | 65,0  | 48,6  | 63,0  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 61,0  | 59,0  | 57,5  | 54,7  | 62,0  | 48,1  | 59,5  | -     | 56,5  | 53,1  | 61,0  | 42,7  | 58,0  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -     | 57,2  | 55,2  | 54,0  | 50,7  | 58,1  | 42,2  | 55,5  | -     | 53,2  | 49,1  | 57,1  | 37,0  | 53,6  | 98  |
| 101                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | 54,5  | 52,5  | 51,5  | 48,0  | 55,5  | 37,8  | 52,5  | -     | 50,5  | 46,4  | 54,4  | 33,4  | 49,6  | 101 |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | -     | -     | 49,6  | 45,5  | 53,5  | 32,2  | 47,8  | 102 |
| 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -     | -     | -     | -     | -     | -     | -     | -     | -     | 48,8  | 44,6  | 52,5  | 30,9  | 46,0  | 103 |


 0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

LSL\_1 – LSL\_7:  11-19 m

LSL\_9 – LSL\_11:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t

# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  <b>165 t +  50 t</b> </div> <div>  <b>11-21 m</b> </div> <div>  <b>8,40 m</b> </div> <div>  <b>9.8 m/s</b> </div> <div> <b>360°</b> </div> <div> <b>EN13000</b> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| <div>  <b>120 m</b> </div> <div>  <b>123 m</b> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| <div>  <b>LSL_1</b> </div> <div>  <b>LSL_2</b> </div> <div>  <b>LSL_5</b> </div> <div>  <b>LSL_7</b> </div> <div>  <b>LSL_9</b> </div> <div>  <b>LSL_11</b> </div> <div>  <b>LSL_13</b> </div> <div>  <b>LSL_15</b> </div> <div>  <b>LSL_5</b> </div> <div>  <b>LSL_7</b> </div> <div>  <b>LSL_9</b> </div> <div>  <b>LSL_11</b> </div> <div>  <b>LSL_13</b> </div> <div>  <b>LSL_15</b> </div> <div>  </div> |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| <div>  <b>0 t</b> </div> <div>  <b>0 t - 325 t</b> </div> <div>  <b>0 t</b> </div> <div>  <b>0 t - 325 t</b> </div> <div>  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m   |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 132,0 | 138,0 | 153,0 | 160,0 | 176,0 | 199,0 | 206,0 | 214,0 | 242,0 | 123,0 | 153,0 | 166,0 | 190,0 | 197,0 | 204,0 | 230,0 | 14  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 116,0 | 137,0 | 152,0 | 160,0 | 176,0 | 199,0 | 206,0 | 214,0 | 242,0 | 108,0 | 153,0 | 166,0 | 190,0 | 197,0 | 204,0 | 230,0 | 16  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 103,0 | 137,0 | 152,0 | 160,0 | 176,0 | 199,0 | 206,0 | 214,0 | 242,0 | 95,5  | 153,0 | 166,0 | 190,0 | 197,0 | 204,0 | 230,0 | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 92,5  | 137,0 | 152,0 | 160,0 | 176,0 | 199,0 | 206,0 | 213,0 | 242,0 | 85,0  | 152,0 | 166,0 | 190,0 | 197,0 | 204,0 | 230,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 83,0  | 136,0 | 151,0 | 160,0 | 176,0 | 198,0 | 205,0 | 212,0 | 242,0 | 76,0  | 152,0 | 166,0 | 189,0 | 196,0 | 203,0 | 230,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 75,0  | 135,0 | 151,0 | 160,0 | 175,0 | 197,0 | 204,0 | 211,0 | 242,0 | 68,0  | 152,0 | 165,0 | 189,0 | 195,0 | 201,0 | 229,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 68,0  | 135,0 | 151,0 | 159,0 | 174,0 | 197,0 | 204,0 | 211,0 | 238,0 | 61,0  | 151,0 | 164,0 | 188,0 | 195,0 | 201,0 | 224,5 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 61,5  | 134,0 | 151,0 | 158,0 | 173,0 | 196,0 | 202,0 | 207,0 | 234,0 | 55,0  | 150,0 | 164,0 | 187,0 | 193,0 | 198,0 | 221,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 56,5  | 134,0 | 150,0 | 157,0 | 172,0 | 195,0 | 201,0 | 204,0 | 228,0 | 49,9  | 150,0 | 163,0 | 186,0 | 192,0 | 196,0 | 215,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 47,6  | 132,0 | 148,6 | 153,6 | 168,3 | 188,0 | 193,6 | 193,0 | 215,0 | 41,3  | 148,0 | 160,0 | 181,0 | 186,0 | 186,0 | 203,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 39,9  | 129,6 | 147,3 | 148,0 | 163,3 | 181,0 | 186,3 | 179,3 | 200,5 | 33,8  | 143,0 | 155,3 | 173,6 | 179,6 | 174,0 | 188,5 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 33,3  | 127,0 | 146,0 | 144,0 | 157,0 | 174,0 | 179,0 | 166,0 | 183,0 | 27,4  | 139,0 | 150,0 | 167,0 | 173,0 | 159,0 | 174,6 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 27,9  | 123,6 | 141,0 | 139,0 | 149,6 | 164,0 | 165,0 | 152,6 | 163,0 | 22,0  | 135,6 | 145,3 | 159,3 | 162,3 | 146,3 | 162,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 22,8  | 118,6 | 136,0 | 133,0 | 138,6 | 151,0 | 150,3 | 138,6 | 147,0 | 17,0  | 130,6 | 136,3 | 148,6 | 149,3 | 133,3 | 147,3 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 18,1  | 116,0 | 128,0 | 127,0 | 124,0 | 135,0 | 135,0 | 126,0 | 132,6 | 12,4  | 126,0 | 123,0 | 134,0 | 134,0 | 120,0 | 133,6 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 14,3  | 112,3 | 116,6 | 115,6 | 112,6 | 123,0 | 123,0 | 114,0 | 120,0 | 8,7   | 114,6 | 111,0 | 122,0 | 122,0 | 108,0 | 121,0 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11,0  | 107,3 | 106,5 | 105,4 | 102,3 | 111,6 | 111,0 | 102,5 | 109,0 | 5,3   | 104,3 | 101,3 | 110,6 | 111,0 | 97,0  | 110,0 | 62  |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10,3  | 105,5 | 104,2 | 103,1 | 100,0 | 109,0 | 108,7 | 100,0 | 106,5 | 4,6   | 102,0 | 99,0  | 108,2 | 108,5 | 94,5  | 107,5 | 63  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 8,1   | 100,0 | 97,5  | 96,0  | 93,0  | 102,0 | 102,0 | 92,5  | 100,0 | -     | 95,5  | 92,0  | 101,0 | 101,0 | 87,0  | 100,8 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5,6   | 92,3  | 89,8  | 88,6  | 85,3  | 94,3  | 94,0  | 83,1  | 92,0  | -     | 87,8  | 84,3  | 93,3  | 93,0  | 78,0  | 92,5  | 70  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4,4   | 88,5  | 86,0  | 85,0  | 81,5  | 90,5  | 90,0  | 78,5  | 88,3  | -     | 84,0  | 80,5  | 89,5  | 89,0  | 73,5  | 88,8  | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 85,3  | 82,8  | 81,8  | 78,3  | 87,1  | 86,6  | 74,6  | 84,6  | -     | 80,8  | 77,3  | 86,1  | 85,6  | 69,6  | 85,1  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 79,0  | 76,5  | 75,5  | 72,0  | 80,5  | 80,0  | 67,0  | 78,0  | -     | 74,5  | 71,0  | 79,5  | 79,0  | 62,0  | 78,5  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 73,6  | 71,1  | 70,1  | 67,0  | 74,8  | 74,3  | 60,6  | 72,0  | -     | 69,1  | 65,6  | 73,8  | 73,3  | 56,0  | 72,5  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 68,8  | 66,3  | 65,1  | 61,8  | 69,5  | 69,0  | 55,1  | 67,0  | -     | 64,1  | 60,5  | 68,5  | 67,9  | 50,4  | 65,1  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 64,5  | 62,0  | 60,5  | 56,5  | 64,5  | 64,0  | 50,5  | 62,0  | -     | 59,5  | 55,5  | 63,5  | 63,0  | 45,7  | 57,8  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 60,5  | 58,0  | 56,5  | 52,1  | 60,5  | 60,0  | 47,3  | 57,0  | -     | 55,7  | 51,1  | 59,5  | 58,6  | 42,1  | 50,5  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 56,6  | 54,0  | 52,9  | 48,0  | 56,6  | 56,1  | 44,8  | 50,4  | -     | 52,2  | 46,9  | 55,5  | 54,6  | 39,2  | 43,7  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 53,0  | 51,0  | 49,7  | 44,2  | 53,0  | 52,5  | 43,0  | 43,8  | -     | 48,6  | 43,0  | 51,5  | 51,0  | 36,9  | 37,0  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 50,0  | 47,9  | 46,5  | 40,9  | 49,7  | 49,1  | 42,3  | 37,2  | -     | 45,2  | 39,6  | 48,2  | 47,7  | 35,9  | 30,8  | 106 |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 43,5  | 38,0  | 46,6  | 46,1  | 35,4  | 27,7  | 108 |

|                                                                                     |     |      |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|

LSL\_1 – LSL\_7:  11-19 m

LSL\_9 – LSL\_13:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t

# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t   |       |  11-21 m |       |  8,40 m |       |  9.8 m/s |       | 360°  |       | EN13000                                                                                            |       |       |       |       |       |       |     |  |  |
|--------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|-------|-------|----------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-----|--|--|
|  126 m          |       |                                                                                           |       |                                                                                          |       |                                                                                            |       |       |       |  129 m          |       |       |       |       |       |       |     |  |  |
| LSL_1   LSL_2   LSL_5   LSL_7   LSL_9   LSL_11   LSL_13   LSL_15                                 |       |                                                                                           |       |                                                                                          |       |                                                                                            |       |       |       | LSL_5   LSL_7   LSL_9   LSL_11   LSL_13   LSL_15                                                   |       |       |       |       |       |       |     |  |  |
|  0 t   0 t-325t |       |                                                                                           |       |                                                                                          |       |                                                                                            |       |       |       |  0 t   0 t-325t |       |       |       |       |       |       |     |  |  |
| m                                                                                                | t     | t                                                                                         | t     | t                                                                                        | t     | t                                                                                          | t     | t     | t     | t                                                                                                  | t     | t     | t     | t     | t     | t     | m   |  |  |
| 14                                                                                               | 116,0 | 119,0                                                                                     | 133,0 | 146,0                                                                                    | 156,0 | 179,0                                                                                      | 187,0 | 195,0 | 220,0 | -                                                                                                  | -     | -     | -     | -     | -     | -     | 14  |  |  |
| 15                                                                                               | 114,0 | 118,5                                                                                     | 132,5 | 146,0                                                                                    | 156,0 | 179,0                                                                                      | 187,0 | 195,0 | 220,0 | 109,0                                                                                              | 137,0 | 148,0 | 171,0 | 178,0 | 186,0 | 209,0 | 15  |  |  |
| 16                                                                                               | 112,0 | 118,0                                                                                     | 132,0 | 146,0                                                                                    | 156,0 | 179,0                                                                                      | 187,0 | 195,0 | 220,0 | 102,0                                                                                              | 137,0 | 148,0 | 171,0 | 178,0 | 186,0 | 209,0 | 16  |  |  |
| 18                                                                                               | 100,0 | 118,0                                                                                     | 132,0 | 146,0                                                                                    | 156,0 | 178,0                                                                                      | 187,0 | 195,0 | 220,0 | 90,5                                                                                               | 137,0 | 147,0 | 170,0 | 178,0 | 186,0 | 209,0 | 18  |  |  |
| 20                                                                                               | 89,5  | 118,0                                                                                     | 132,0 | 145,0                                                                                    | 156,0 | 178,0                                                                                      | 187,0 | 195,0 | 220,0 | 80,5                                                                                               | 136,0 | 147,0 | 170,0 | 178,0 | 186,0 | 209,0 | 20  |  |  |
| 22                                                                                               | 80,5  | 117,0                                                                                     | 132,0 | 145,0                                                                                    | 156,0 | 177,0                                                                                      | 187,0 | 194,0 | 220,0 | 71,5                                                                                               | 136,0 | 147,0 | 169,0 | 178,0 | 185,0 | 209,0 | 22  |  |  |
| 24                                                                                               | 72,5  | 116,0                                                                                     | 131,0 | 145,0                                                                                    | 156,0 | 176,0                                                                                      | 186,0 | 194,0 | 220,0 | 64,0                                                                                               | 136,0 | 147,0 | 168,0 | 177,0 | 185,0 | 207,0 | 24  |  |  |
| 26                                                                                               | 66,0  | 115,0                                                                                     | 130,0 | 144,0                                                                                    | 155,0 | 175,0                                                                                      | 185,0 | 192,0 | 217,0 | 57,5                                                                                               | 135,0 | 146,0 | 168,0 | 176,0 | 183,0 | 204,0 | 26  |  |  |
| 28                                                                                               | 60,0  | 114,0                                                                                     | 130,0 | 144,0                                                                                    | 154,0 | 175,0                                                                                      | 185,0 | 190,0 | 215,0 | 51,5                                                                                               | 135,0 | 145,0 | 167,0 | 176,0 | 183,0 | 202,0 | 28  |  |  |
| 30                                                                                               | 54,5  | 114,0                                                                                     | 130,0 | 143,0                                                                                    | 153,0 | 173,0                                                                                      | 183,0 | 189,0 | 210,5 | 46,6                                                                                               | 134,0 | 145,0 | 166,0 | 174,0 | 181,0 | 197,0 | 30  |  |  |
| 34                                                                                               | 46,0  | 112,3                                                                                     | 128,6 | 141,6                                                                                    | 151,6 | 169,6                                                                                      | 178,6 | 181,6 | 199,5 | 38,1                                                                                               | 133,3 | 143,0 | 163,3 | 171,0 | 175,6 | 185,5 | 34  |  |  |
| 38                                                                                               | 38,6  | 110,6                                                                                     | 127,0 | 139,0                                                                                    | 147,3 | 165,0                                                                                      | 171,6 | 173,3 | 186,5 | 30,7                                                                                               | 131,3 | 139,6 | 159,0 | 164,6 | 170,0 | 173,0 | 38  |  |  |
| 42                                                                                               | 32,2  | 108,0                                                                                     | 125,0 | 135,0                                                                                    | 142,0 | 159,0                                                                                      | 165,0 | 164,0 | 173,3 | 24,5                                                                                               | 128,0 | 135,0 | 153,0 | 158,0 | 162,0 | 160,6 | 42  |  |  |
| 46                                                                                               | 27,1  | 106,0                                                                                     | 123,0 | 131,0                                                                                    | 138,0 | 152,6                                                                                      | 155,6 | 152,6 | 160,0 | 19,5                                                                                               | 124,6 | 130,0 | 146,6 | 149,3 | 152,0 | 148,0 | 46  |  |  |
| 50                                                                                               | 22,2  | 103,3                                                                                     | 119,0 | 127,3                                                                                    | 131,6 | 144,6                                                                                      | 145,6 | 142,6 | 146,0 | 15,0                                                                                               | 121,6 | 125,3 | 140,3 | 141,3 | 142,3 | 137,3 | 50  |  |  |
| 54                                                                                               | 17,5  | 100,0                                                                                     | 117,0 | 124,0                                                                                    | 123,0 | 134,0                                                                                      | 133,0 | 132,0 | 132,6 | 11,0                                                                                               | 119,0 | 120,0 | 133,0 | 132,0 | 131,0 | 127,0 | 54  |  |  |
| 58                                                                                               | 13,7  | 97,0                                                                                      | 112,3 | 113,3                                                                                    | 111,0 | 121,3                                                                                      | 121,0 | 120,0 | 120,0 | 7,3                                                                                                | 111,6 | 109,3 | 120,2 | 119,0 | 119,0 | 117,0 | 58  |  |  |
| 61                                                                                               | 11,1  | 94,8                                                                                      | 108,7 | 105,6                                                                                    | 102,8 | 112,6                                                                                      | 112,5 | 111,5 | 111,0 | 4,7                                                                                                | 105,0 | 101,8 | 111,6 | 111,5 | 110,5 | 109,5 | 61  |  |  |
| 62                                                                                               | 10,4  | 94,1                                                                                      | 106,5 | 103,3                                                                                    | 100,6 | 110,3                                                                                      | 110,0 | 109,1 | 108,6 | -                                                                                                  | 102,8 | 99,6  | 109,3 | 109,1 | 108,1 | 107,0 | 62  |  |  |
| 66                                                                                               | 7,5   | 91,5                                                                                      | 97,5  | 95,0                                                                                     | 92,0  | 101,0                                                                                      | 100,0 | 99,5  | 99,8  | -                                                                                                  | 94,0  | 91,0  | 100,0 | 99,5  | 98,5  | 97,6  | 66  |  |  |
| 70                                                                                               | 5,0   | 89,0                                                                                      | 89,8  | 87,3                                                                                     | 84,3  | 93,0                                                                                       | 92,3  | 90,1  | 91,5  | -                                                                                                  | 86,3  | 83,0  | 91,6  | 91,1  | 90,5  | 89,0  | 70  |  |  |
| 71                                                                                               | 4,4   | 88,5                                                                                      | 87,9  | 85,4                                                                                     | 82,4  | 91,0                                                                                       | 90,4  | 87,8  | 89,6  | -                                                                                                  | 84,4  | 81,0  | 89,5  | 89,0  | 88,5  | 86,9  | 71  |  |  |
| 74                                                                                               | -     | 84,8                                                                                      | 82,8  | 80,3                                                                                     | 77,1  | 85,5                                                                                       | 85,0  | 81,1  | 84,1  | -                                                                                                  | 79,3  | 75,5  | 84,1  | 83,6  | 82,5  | 80,6  | 74  |  |  |
| 78                                                                                               | -     | 78,5                                                                                      | 76,5  | 74,0                                                                                     | 70,5  | 78,5                                                                                       | 78,0  | 72,5  | 77,5  | -                                                                                                  | 73,0  | 68,5  | 77,5  | 77,0  | 74,5  | 72,6  | 78  |  |  |
| 82                                                                                               | -     | 73,1                                                                                      | 71,1  | 68,6                                                                                     | 64,8  | 72,8                                                                                       | 72,3  | 65,1  | 71,5  | -                                                                                                  | 67,6  | 63,0  | 70,5  | 70,3  | 66,5  | 65,0  | 82  |  |  |
| 86                                                                                               | -     | 68,1                                                                                      | 66,1  | 63,6                                                                                     | 59,3  | 67,6                                                                                       | 67,0  | 58,0  | 66,0  | -                                                                                                  | 62,6  | 57,5  | 64,0  | 64,0  | 59,3  | 58,0  | 86  |  |  |
| 90                                                                                               | -     | 63,5                                                                                      | 61,5  | 59,0                                                                                     | 54,0  | 63,0                                                                                       | 62,5  | 52,5  | 58,5  | -                                                                                                  | 58,0  | 52,5  | 58,0  | 58,0  | 53,0  | 51,1  | 90  |  |  |
| 94                                                                                               | -     | 59,5                                                                                      | 57,5  | 54,7                                                                                     | 49,7  | 57,6                                                                                       | 57,8  | 48,2  | 51,5  | -                                                                                                  | 53,3  | 48,2  | 53,0  | 53,0  | 48,0  | 44,5  | 94  |  |  |
| 98                                                                                               | -     | 55,8                                                                                      | 54,0  | 50,6                                                                                     | 45,6  | 52,9                                                                                       | 53,4  | 44,6  | 45,0  | -                                                                                                  | 49,1  | 44,1  | 48,3  | 48,5  | 43,8  | 38,1  | 98  |  |  |
| 102                                                                                              | -     | 52,5                                                                                      | 50,5  | 46,8                                                                                     | 41,7  | 48,9                                                                                       | 49,3  | 41,7  | 38,6  | -                                                                                                  | 45,3  | 40,2  | 44,1  | 44,5  | 40,4  | 31,9  | 102 |  |  |
| 106                                                                                              | -     | 48,2                                                                                      | 47,5  | 43,3                                                                                     | 38,2  | 45,5                                                                                       | 46,0  | 40,3  | 32,4  | -                                                                                                  | 41,8  | 36,7  | 40,5  | 41,0  | 38,4  | 25,9  | 106 |  |  |
| 110                                                                                              | -     | 42,7                                                                                      | 43,2  | 40,1                                                                                     | 35,0  | 42,4                                                                                       | 43,0  | 39,4  | 26,6  | -                                                                                                  | 38,6  | 33,5  | 37,3  | 37,8  | 37,0  | 20,2  | 110 |  |  |
| 111                                                                                              | -     | 41,3                                                                                      | 41,9  | 39,4                                                                                     | 34,3  | 41,7                                                                                       | 42,4  | 39,3  | 25,2  | -                                                                                                  | 37,8  | 32,8  | 36,6  | 37,1  | 36,9  | 18,8  | 111 |  |  |
| 114                                                                                              | -     | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | -     | -     | -     | -                                                                                                  | 35,7  | 30,6  | 34,5  | 35,2  | 36,8  | 14,9  | 114 |  |  |



|     |      |       |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|
| 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-----|------|-------|-------|-------|-------|-------|-------|

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

LSL\_1 – LSL\_7: 11-19 m

LSL\_9 – LSL\_13: 11-21 m

LSL\_15: 13-21 m

LSL\_15: 225 t + 50 t



# Operation

LSL

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|  165 t +  50 t |      |  11-21 m |       |  8,40 m |       |  9.8 m/s |        | 360°   |                                                                                         | EN13000                                                                                   |       |             |        |        |        |                                                                                     |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|--------|--------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-------|-------------|--------|--------|--------|-------------------------------------------------------------------------------------|-----|
|  132 m                                                                                          |      |                                                                                           |       |                                                                                          |       |                                                                                            |        |        |                                                                                         |  135 m |       |             |        |        |        |                                                                                     |     |
|  LSL_1                                                                                          |      | LSL_2                                                                                     | LSL_5 | LSL_7                                                                                    | LSL_9 | LSL_11                                                                                     | LSL_13 | LSL_15 |  LSL_5 |                                                                                           | LSL_7 | LSL_9       | LSL_11 | LSL_13 | LSL_15 |  |     |
|  0 t                                                                                            |      | 0 t - 325 t                                                                               |       |                                                                                          |       |                                                                                            |        |        |                                                                                         |  0 t     |       | 0 t - 325 t |        |        |        |                                                                                     |     |
| m                                                                                                                                                                                | t    | t                                                                                         | t     | t                                                                                        | t     | t                                                                                          | t      | t      | t                                                                                       | t                                                                                         | t     | t           | t      | t      | t      | t                                                                                   | n   |
| 15                                                                                                                                                                               | 98,5 | 101,0                                                                                     | 115,0 | 127,0                                                                                    | 138,0 | 156,0                                                                                      | 163,0  | 179,0  | 190,0                                                                                   | 105,0                                                                                     | 121,0 | 130,0       | 148,0  | 155,0  | 170,0  | 181,0                                                                               | 15  |
| 16                                                                                                                                                                               | 98,0 | 101,0                                                                                     | 115,0 | 127,0                                                                                    | 138,0 | 156,0                                                                                      | 163,0  | 179,0  | 190,0                                                                                   | 99,0                                                                                      | 121,0 | 130,0       | 148,0  | 155,0  | 170,0  | 181,0                                                                               | 16  |
| 18                                                                                                                                                                               | 96,5 | 100,0                                                                                     | 115,0 | 127,0                                                                                    | 137,0 | 156,0                                                                                      | 163,0  | 178,0  | 190,0                                                                                   | 87,0                                                                                      | 121,0 | 130,0       | 148,0  | 155,0  | 170,0  | 181,0                                                                               | 18  |
| 20                                                                                                                                                                               | 86,5 | 100,0                                                                                     | 114,0 | 127,0                                                                                    | 137,0 | 156,0                                                                                      | 163,0  | 177,0  | 190,0                                                                                   | 77,5                                                                                      | 121,0 | 130,0       | 148,0  | 155,0  | 170,0  | 181,0                                                                               | 20  |
| 22                                                                                                                                                                               | 78,0 | 99,5                                                                                      | 114,0 | 127,0                                                                                    | 137,0 | 156,0                                                                                      | 162,0  | 177,0  | 190,0                                                                                   | 69,0                                                                                      | 120,0 | 129,0       | 148,0  | 154,0  | 169,0  | 181,0                                                                               | 22  |
| 24                                                                                                                                                                               | 70,0 | 98,5                                                                                      | 113,0 | 126,0                                                                                    | 137,0 | 155,0                                                                                      | 162,0  | 176,0  | 190,0                                                                                   | 61,5                                                                                      | 120,0 | 129,0       | 147,0  | 154,0  | 168,0  | 181,0                                                                               | 24  |
| 26                                                                                                                                                                               | 63,5 | 98,0                                                                                      | 113,0 | 126,0                                                                                    | 136,0 | 155,0                                                                                      | 161,0  | 175,0  | 190,0                                                                                   | 55,0                                                                                      | 120,0 | 129,0       | 147,0  | 153,0  | 167,0  | 181,0                                                                               | 26  |
| 28                                                                                                                                                                               | 58,0 | 97,0                                                                                      | 112,0 | 125,0                                                                                    | 136,0 | 154,0                                                                                      | 161,0  | 175,0  | 190,0                                                                                   | 49,6                                                                                      | 119,0 | 128,0       | 147,0  | 153,0  | 167,0  | 181,0                                                                               | 28  |
| 30                                                                                                                                                                               | 52,5 | 96,0                                                                                      | 112,0 | 125,0                                                                                    | 135,0 | 153,0                                                                                      | 159,0  | 174,0  | 189,0                                                                                   | 44,6                                                                                      | 118,0 | 128,0       | 146,0  | 152,0  | 166,0  | 179,5                                                                               | 30  |
| 34                                                                                                                                                                               | 44,2 | 95,0                                                                                      | 111,3 | 123,6                                                                                    | 133,6 | 149,6                                                                                      | 155,6  | 171,0  | 186,0                                                                                   | 36,3                                                                                      | 117,3 | 126,6       | 144,0  | 150,0  | 164,3  | 177,0                                                                               | 34  |
| 38                                                                                                                                                                               | 36,9 | 93,3                                                                                      | 110,0 | 121,3                                                                                    | 131,3 | 144,3                                                                                      | 148,6  | 165,3  | 180,0                                                                                   | 29,1                                                                                      | 115,6 | 124,6       | 140,0  | 144,3  | 158,6  | 172,0                                                                               | 38  |
| 42                                                                                                                                                                               | 30,6 | 91,0                                                                                      | 108,0 | 118,0                                                                                    | 128,0 | 140,0                                                                                      | 144,0  | 156,0  | 169,3                                                                                   | 22,9                                                                                      | 113,0 | 122,0       | 134,0  | 139,0  | 150,0  | 163,0                                                                               | 42  |
| 46                                                                                                                                                                               | 25,6 | 88,8                                                                                      | 106,0 | 115,3                                                                                    | 124,6 | 135,0                                                                                      | 139,0  | 146,0  | 156,0                                                                                   | 18,0                                                                                      | 110,3 | 118,6       | 130,0  | 134,0  | 140,6  | 153,0                                                                               | 46  |
| 50                                                                                                                                                                               | 21,2 | 87,0                                                                                      | 104,0 | 112,0                                                                                    | 121,6 | 129,6                                                                                      | 133,0  | 135,3  | 143,3                                                                                   | 13,6                                                                                      | 108,0 | 115,6       | 125,6  | 129,3  | 130,6  | 140,3                                                                               | 50  |
| 54                                                                                                                                                                               | 17,3 | 85,0                                                                                      | 102,0 | 110,0                                                                                    | 119,0 | 126,0                                                                                      | 129,0  | 126,0  | 130,6                                                                                   | 9,8                                                                                       | 106,0 | 113,0       | 123,0  | 126,0  | 120,0  | 128,0                                                                               | 54  |
| 58                                                                                                                                                                               | 13,6 | 82,1                                                                                      | 99,0  | 106,0                                                                                    | 111,0 | 118,6                                                                                      | 120,2  | 116,6  | 118,0                                                                                   | 6,2                                                                                       | 104,0 | 109,0       | 118,2  | 120,0  | 110,8  | 117,0                                                                               | 58  |
| 60                                                                                                                                                                               | 11,8 | 81,0                                                                                      | 98,0  | 105,0                                                                                    | 106,0 | 115,0                                                                                      | 115,0  | 112,0  | 113,4                                                                                   | 4,5                                                                                       | 103,0 | 104,0       | 114,0  | 114,0  | 106,0  | 111,6                                                                               | 60  |
| 62                                                                                                                                                                               | 10,3 | 79,0                                                                                      | 95,7  | 102,0                                                                                    | 101,5 | 110,3                                                                                      | 110,0  | 106,6  | 108,2                                                                                   | -                                                                                         | 99,6  | 99,8        | 109,3  | 109,1  | 101,0  | 106,3                                                                               | 62  |
| 66                                                                                                                                                                               | 7,3  | 77,0                                                                                      | 94,0  | 94,0                                                                                     | 92,5  | 101,0                                                                                      | 100,0  | 96,0   | 98,6                                                                                    | -                                                                                         | 93,0  | 91,5        | 100,0  | 99,5   | 91,0   | 96,6                                                                                | 66  |
| 70                                                                                                                                                                               | 4,8  | 74,6                                                                                      | 88,0  | 86,3                                                                                     | 84,8  | 92,6                                                                                       | 92,3   | 86,3   | 90,0                                                                                    | -                                                                                         | 85,6  | 83,8        | 91,6   | 91,5   | 81,6   | 88,0                                                                                | 70  |
| 71                                                                                                                                                                               | 4,2  | 73,8                                                                                      | 86,5  | 84,4                                                                                     | 82,9  | 90,5                                                                                       | 90,4   | 83,9   | 88,0                                                                                    | -                                                                                         | 83,8  | 81,9        | 89,5   | 89,5   | 79,4   | 86,0                                                                                | 71  |
| 74                                                                                                                                                                               | -    | 72,0                                                                                      | 81,8  | 79,3                                                                                     | 77,8  | 85,1                                                                                       | 85,0   | 77,1   | 82,3                                                                                    | -                                                                                         | 78,8  | 76,8        | 84,1   | 84,0   | 73,3   | 80,3                                                                                | 74  |
| 78                                                                                                                                                                               | -    | 70,0                                                                                      | 75,5  | 73,0                                                                                     | 71,5  | 78,5                                                                                       | 78,0   | 68,5   | 75,1                                                                                    | -                                                                                         | 72,5  | 70,5        | 77,5   | 77,0   | 65,0   | 73,0                                                                                | 78  |
| 82                                                                                                                                                                               | -    | 67,5                                                                                      | 70,1  | 67,6                                                                                     | 65,8  | 72,8                                                                                       | 72,3   | 61,3   | 68,5                                                                                    | -                                                                                         | 67,1  | 64,5        | 71,8   | 71,3   | 57,3   | 66,5                                                                                | 82  |
| 86                                                                                                                                                                               | -    | 64,1                                                                                      | 65,1  | 62,8                                                                                     | 60,8  | 67,5                                                                                       | 67,1   | 54,5   | 63,1                                                                                    | -                                                                                         | 61,8  | 59,0        | 66,5   | 66,2   | 50,9   | 61,1                                                                                | 86  |
| 90                                                                                                                                                                               | -    | 59,5                                                                                      | 60,5  | 58,5                                                                                     | 56,0  | 62,5                                                                                       | 62,5   | 48,5   | 58,0                                                                                    | -                                                                                         | 57,0  | 54,0        | 61,5   | 61,0   | 44,9   | 56,0                                                                                | 90  |
| 94                                                                                                                                                                               | -    | 54,8                                                                                      | 56,5  | 54,1                                                                                     | 51,5  | 58,1                                                                                       | 57,8   | 43,5   | 53,0                                                                                    | -                                                                                         | 52,3  | 49,8        | 57,1   | 56,6   | 39,8   | 51,0                                                                                | 94  |
| 98                                                                                                                                                                               | -    | 50,4                                                                                      | 53,2  | 50,0                                                                                     | 47,3  | 54,0                                                                                       | 53,6   | 39,0   | 48,8                                                                                    | -                                                                                         | 48,1  | 45,8        | 52,8   | 52,4   | 35,3   | 46,3                                                                                | 98  |
| 102                                                                                                                                                                              | -    | 46,1                                                                                      | 49,6  | 46,0                                                                                     | 43,3  | 50,0                                                                                       | 49,9   | 35,2   | 44,7                                                                                    | -                                                                                         | 44,5  | 41,9        | 48,5   | 48,3   | 31,3   | 41,9                                                                                | 102 |
| 106                                                                                                                                                                              | -    | 41,4                                                                                      | 46,4  | 42,4                                                                                     | 39,8  | 46,2                                                                                       | 46,1   | 32,5   | 40,8                                                                                    | -                                                                                         | 40,9  | 38,2        | 44,7   | 44,5   | 28,2   | 38,0                                                                                | 106 |
| 110                                                                                                                                                                              | -    | 36,7                                                                                      | 41,9  | 39,1                                                                                     | 36,5  | 42,8                                                                                       | 42,7   | 30,4   | 37,4                                                                                    | -                                                                                         | 37,6  | 35,0        | 41,1   | 40,9   | 25,9   | 34,6                                                                                | 110 |
| 114                                                                                                                                                                              | -    | 32,3                                                                                      | 36,2  | 36,1                                                                                     | 33,5  | 39,6                                                                                       | 39,5   | 28,9   | 34,1                                                                                    | -                                                                                         | 34,6  | 32,0        | 38,0   | 37,8   | 24,1   | 31,5                                                                                | 114 |
| 116                                                                                                                                                                              | -    | 29,9                                                                                      | 32,9  | 34,7                                                                                     | 32,1  | 38,3                                                                                       | 38,1   | 28,6   | 32,6                                                                                    | -                                                                                         | 33,2  | 30,6        | 36,6   | 36,4   | 23,6   | 30,1                                                                                | 116 |
| 118                                                                                                                                                                              | -    | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | -      | -      | -                                                                                       | -                                                                                         | 31,8  | 29,2        | 35,2   | 35,0   | 23,2   | 28,9                                                                                | 118 |
| 119                                                                                                                                                                              | -    | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | -      | -      | -                                                                                       | -                                                                                         | 31,2  | 28,6        | 34,5   | 34,3   | 23,0   | 28,4                                                                                | 119 |

 0 t   65 t   125 t   165 t   205 t   245 t   285 t   325 t

LSL\_1 – LSL\_7:  11-19 m

LSL\_9 – LSL\_13:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t



# Operation

LSL

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| 165 t +  50 t |      |  11-21 m |       |  8,40 m |       |  9.8 m/s |        | 360°   |       | EN13000 |       |             |        |        |        |       |     |                                                                                     |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|--------|--------|-------|---------|-------|-------------|--------|--------|--------|-------|-----|-------------------------------------------------------------------------------------|
|  138 m        |      |                                                                                           |       |                                                                                          |       |                                                                                            |        |        |       | 141 m   |       |             |        |        |        |       |     |                                                                                     |
| LSL_1                                                                                          |      | LSL_2                                                                                     | LSL_5 | LSL_7                                                                                    | LSL_9 | LSL_11                                                                                     | LSL_13 | LSL_15 | LSL_5 |         | LSL_7 | LSL_9       | LSL_11 | LSL_13 | LSL_15 |       |     |                                                                                     |
| 0 t                                                                                            |      | 0 t - 325 t                                                                               |       |                                                                                          |       |                                                                                            |        |        |       | 0 t     |       | 0 t - 325 t |        |        |        |       |     |  |
| m                                                                                              | t    | t                                                                                         | t     | t                                                                                        | t     | t                                                                                          | t      | t      | t     | t       | t     | t           | t      | t      | t      | n     |     |                                                                                     |
| 15                                                                                             | 84,5 | 87,5                                                                                      | 98,5  | 117,0                                                                                    | 123,0 | 140,0                                                                                      | 146,0  | 162,0  | 171,0 | -       | -     | -           | -      | -      | -      | 15    |     |                                                                                     |
| 16                                                                                             | 84,5 | 87,0                                                                                      | 98,5  | 117,0                                                                                    | 123,0 | 140,0                                                                                      | 146,0  | 162,0  | 171,0 | 93,5    | 111,0 | 116,0       | 131,0  | 139,0  | 153,0  | 163,0 | 16  |                                                                                     |
| 18                                                                                             | 84,0 | 86,5                                                                                      | 98,0  | 117,0                                                                                    | 122,0 | 140,0                                                                                      | 146,0  | 162,0  | 171,0 | 82,0    | 111,0 | 116,0       | 130,0  | 139,0  | 153,0  | 163,0 | 18  |                                                                                     |
| 20                                                                                             | 83,0 | 86,0                                                                                      | 97,5  | 117,0                                                                                    | 122,0 | 139,0                                                                                      | 146,0  | 162,0  | 171,0 | 72,5    | 111,0 | 116,0       | 130,0  | 139,0  | 153,0  | 163,0 | 20  |                                                                                     |
| 22                                                                                             | 75,5 | 85,0                                                                                      | 97,0  | 117,0                                                                                    | 122,0 | 139,0                                                                                      | 146,0  | 162,0  | 171,0 | 64,5    | 110,0 | 115,0       | 130,0  | 139,0  | 153,0  | 163,0 | 22  |                                                                                     |
| 24                                                                                             | 68,0 | 84,5                                                                                      | 96,5  | 116,0                                                                                    | 122,0 | 138,0                                                                                      | 145,0  | 161,0  | 171,0 | 57,5    | 110,0 | 115,0       | 129,0  | 138,0  | 153,0  | 162,0 | 24  |                                                                                     |
| 26                                                                                             | 61,5 | 83,5                                                                                      | 96,0  | 116,0                                                                                    | 121,0 | 137,0                                                                                      | 145,0  | 161,0  | 171,0 | 51,0    | 110,0 | 115,0       | 129,0  | 138,0  | 153,0  | 162,0 | 26  |                                                                                     |
| 28                                                                                             | 56,0 | 82,5                                                                                      | 95,0  | 115,0                                                                                    | 121,0 | 136,0                                                                                      | 145,0  | 160,0  | 171,0 | 45,7    | 109,0 | 114,0       | 129,0  | 138,0  | 152,0  | 162,0 | 28  |                                                                                     |
| 30                                                                                             | 51,0 | 82,0                                                                                      | 94,5  | 115,0                                                                                    | 120,0 | 135,0                                                                                      | 144,0  | 160,0  | 170,0 | 40,8    | 109,0 | 114,0       | 129,0  | 137,0  | 152,0  | 161,5 | 30  |                                                                                     |
| 34                                                                                             | 42,8 | 80,6                                                                                      | 93,5  | 113,6                                                                                    | 119,3 | 132,3                                                                                      | 142,0  | 154,0  | 168,0 | 32,6    | 107,6 | 112,6       | 127,6  | 134,6  | 147,3  | 159,5 | 34  |                                                                                     |
| 38                                                                                             | 35,6 | 79,5                                                                                      | 92,1  | 112,0                                                                                    | 117,6 | 128,0                                                                                      | 137,6  | 146,6  | 164,0 | 25,5    | 106,3 | 111,0       | 125,3  | 131,0  | 140,6  | 156,0 | 38  |                                                                                     |
| 42                                                                                             | 29,4 | 77,5                                                                                      | 90,5  | 110,0                                                                                    | 115,0 | 124,0                                                                                      | 133,0  | 138,0  | 156,0 | 19,5    | 105,0 | 109,0       | 122,0  | 127,0  | 134,0  | 150,6 | 42  |                                                                                     |
| 46                                                                                             | 24,5 | 75,8                                                                                      | 88,8  | 107,3                                                                                    | 112,3 | 119,0                                                                                      | 128,6  | 128,0  | 148,0 | 14,7    | 102,3 | 106,3       | 119,3  | 122,3  | 124,0  | 144,0 | 46  |                                                                                     |
| 50                                                                                             | 20,1 | 74,0                                                                                      | 87,1  | 104,6                                                                                    | 109,6 | 114,3                                                                                      | 124,3  | 117,8  | 136,6 | 10,4    | 100,0 | 104,0       | 116,6  | 119,3  | 114,3  | 133,3 | 50  |                                                                                     |
| 54                                                                                             | 16,3 | 72,0                                                                                      | 86,0  | 102,0                                                                                    | 107,0 | 110,0                                                                                      | 121,0  | 107,0  | 125,8 | 6,6     | 98,0  | 102,0       | 114,0  | 116,0  | 105,0  | 122,5 | 54  |                                                                                     |
| 57                                                                                             | 13,9 | 71,0                                                                                      | 84,7  | 100,5                                                                                    | 105,0 | 107,0                                                                                      | 119,0  | 99,7   | 118,0 | 4,2     | 96,5  | 100,2       | 111,2  | 112,2  | 97,7   | 114,5 | 57  |                                                                                     |
| 58                                                                                             | 13,1 | 70,6                                                                                      | 84,3  | 100,0                                                                                    | 104,0 | 106,0                                                                                      | 117,0  | 97,3   | 115,0 | -       | 96,0  | 99,8        | 110,5  | 111,5  | 95,3   | 112,0 | 58  |                                                                                     |
| 62                                                                                             | 10,0 | 69,0                                                                                      | 82,2  | 96,6                                                                                     | 98,0  | 101,1                                                                                      | 108,3  | 88,1   | 105,0 | -       | 92,8  | 95,1        | 105,0  | 105,8  | 85,8   | 102,6 | 62  |                                                                                     |
| 66                                                                                             | 7,1  | 67,0                                                                                      | 80,5  | 91,0                                                                                     | 90,0  | 97,5                                                                                       | 99,0   | 79,5   | 95,8  | -       | 88,5  | 87,5        | 97,0   | 97,5   | 76,5   | 93,6  | 66  |                                                                                     |
| 70                                                                                             | 4,5  | 65,2                                                                                      | 77,8  | 84,0                                                                                     | 82,6  | 90,5                                                                                       | 90,6   | 70,8   | 87,5  | -       | 81,8  | 80,5        | 89,6   | 89,5   | 68,1   | 85,0  | 70  |                                                                                     |
| 74                                                                                             | -    | 62,6                                                                                      | 75,3  | 76,5                                                                                     | 75,6  | 83,6                                                                                       | 83,1   | 62,5   | 79,8  | -       | 75,0  | 73,8        | 82,5   | 82,1   | 60,1   | 77,6  | 74  |                                                                                     |
| 78                                                                                             | -    | 61,0                                                                                      | 74,0  | 68,5                                                                                     | 69,0  | 77,0                                                                                       | 76,5   | 55,0   | 72,3  | -       | 68,0  | 67,5        | 75,5   | 75,5   | 52,5   | 70,6  | 78  |                                                                                     |
| 82                                                                                             | -    | 58,8                                                                                      | 69,6  | 60,5                                                                                     | 63,0  | 71,3                                                                                       | 70,8   | 48,4   | 66,0  | -       | 60,0  | 61,5        | 69,9   | 69,5   | 46,0   | 64,0  | 82  |                                                                                     |
| 86                                                                                             | -    | 56,6                                                                                      | 65,3  | 52,8                                                                                     | 58,0  | 65,8                                                                                       | 65,5   | 42,3   | 58,3  | -       | 52,4  | 56,0        | 64,5   | 64,3   | 39,9   | 58,6  | 86  |                                                                                     |
| 90                                                                                             | -    | 54,0                                                                                      | 61,0  | 46,1                                                                                     | 53,0  | 61,0                                                                                       | 60,5   | 36,8   | 51,9  | -       | 45,3  | 51,0        | 59,5   | 59,0   | 34,3   | 53,2  | 90  |                                                                                     |
| 94                                                                                             | -    | 50,2                                                                                      | 56,6  | 40,9                                                                                     | 48,6  | 56,3                                                                                       | 55,8   | 32,0   | 46,8  | -       | 40,2  | 46,9        | 54,5   | 54,3   | 29,5   | 47,8  | 94  |                                                                                     |
| 98                                                                                             | -    | 46,3                                                                                      | 52,8  | 36,1                                                                                     | 44,5  | 51,9                                                                                       | 51,4   | 27,8   | 42,2  | -       | 35,4  | 42,9        | 50,0   | 49,9   | 25,2   | 42,9  | 98  |                                                                                     |
| 102                                                                                            | -    | 42,3                                                                                      | 48,4  | 31,6                                                                                     | 40,6  | 47,8                                                                                       | 47,3   | 24,0   | 38,0  | -       | 30,9  | 39,0        | 46,0   | 45,7   | 21,4   | 38,5  | 102 |                                                                                     |
| 106                                                                                            | -    | 38,4                                                                                      | 42,4  | 27,7                                                                                     | 37,0  | 44,0                                                                                       | 43,5   | 21,0   | 34,1  | -       | 26,9  | 35,5        | 42,1   | 41,8   | 18,2   | 34,4  | 106 |                                                                                     |
| 110                                                                                            | -    | 35,0                                                                                      | 36,7  | 24,1                                                                                     | 33,7  | 40,3                                                                                       | 39,9   | 18,6   | 30,7  | -       | 23,2  | 32,2        | 38,6   | 38,3   | 15,5   | 30,7  | 110 |                                                                                     |
| 114                                                                                            | -    | 31,2                                                                                      | 31,1  | 20,9                                                                                     | 30,7  | 37,1                                                                                       | 36,7   | 16,6   | 27,6  | -       | 20,0  | 29,2        | 35,3   | 35,0   | 13,3   | 27,5  | 114 |                                                                                     |
| 118                                                                                            | -    | 27,2                                                                                      | 25,1  | 18,3                                                                                     | 27,9  | 34,1                                                                                       | 33,9   | 15,3   | 24,9  | -       | 17,1  | 26,4        | 32,4   | 32,1   | 11,8   | 24,5  | 118 |                                                                                     |
| 121                                                                                            | -    | 24,3                                                                                      | 21,0  | 16,4                                                                                     | 26,0  | 32,0                                                                                       | 31,8   | 14,6   | 23,2  | -       | 15,2  | 24,5        | 30,3   | 30,0   | 10,9   | 22,7  | 121 |                                                                                     |
| 122                                                                                            | -    | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | -      | -      | -     | -       | 14,6  | 23,9        | 29,7   | 29,4   | 10,7   | 22,1  | 122 |                                                                                     |
| 124                                                                                            | -    | -                                                                                         | -     | -                                                                                        | -     | -                                                                                          | -      | -      | -     | -       | 13,5  | 22,7        | 28,5   | 28,2   | 10,4   | 21,0  | 124 |                                                                                     |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

LSL\_1 – LSL\_7: 11-19 m

LSL\_9 – LSL\_13: 11-21 m

LSL\_15: 13-21 m

LSL\_15: 225 t + 50 t

# Operation

LSL

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|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000 |      |      |      |       |       |       |       |       |       |      |      |       |       |       |       |       |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-----|
|  144 m  147 m                                                                                                                                                                                                                                                                                                               |      |      |      |       |       |       |       |       |       |      |      |       |       |       |       |       |     |
|  0 t  0 t - 325 t  0 t  0 t - 325 t  0 t                               |      |      |      |       |       |       |       |       |       |      |      |       |       |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t    | t    | t    | t     | t     | t     | t     | t     | t     | t    | t    | t     | t     | t     | t     | t     | m   |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 73,0 | 75,5 | 86,0 | 102,0 | 106,0 | 126,0 | 133,0 | 142,0 | 156,0 | 90,0 | 97,0 | 101,0 | 120,0 | 126,0 | 135,0 | 148,0 | 16  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 72,5 | 75,0 | 85,5 | 102,0 | 106,0 | 125,0 | 133,0 | 142,0 | 156,0 | 79,0 | 96,5 | 100,0 | 119,0 | 126,0 | 135,0 | 148,0 | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 72,0 | 74,0 | 85,0 | 101,0 | 105,0 | 125,0 | 133,0 | 141,0 | 156,0 | 70,0 | 96,0 | 100,0 | 119,0 | 126,0 | 135,0 | 148,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 71,0 | 73,5 | 84,5 | 101,0 | 105,0 | 125,0 | 132,0 | 141,0 | 156,0 | 62,0 | 96,0 | 100,0 | 119,0 | 126,0 | 135,0 | 148,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 65,5 | 72,5 | 84,0 | 101,0 | 105,0 | 124,0 | 132,0 | 140,0 | 156,0 | 55,0 | 95,5 | 100,0 | 119,0 | 125,0 | 135,0 | 148,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 59,0 | 71,5 | 83,0 | 101,0 | 105,0 | 124,0 | 131,0 | 140,0 | 155,0 | 49,0 | 95,5 | 99,5  | 118,0 | 125,0 | 134,0 | 147,0 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 53,5 | 71,0 | 82,5 | 100,0 | 104,0 | 124,0 | 130,0 | 139,0 | 154,0 | 43,6 | 95,5 | 99,0  | 118,0 | 124,0 | 133,0 | 146,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 48,9 | 70,0 | 81,5 | 100,0 | 103,0 | 124,0 | 130,0 | 138,0 | 153,5 | 38,8 | 95,0 | 98,5  | 118,0 | 124,0 | 132,0 | 145,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40,8 | 68,3 | 80,3 | 99,0  | 101,6 | 122,0 | 127,3 | 135,3 | 152,0 | 30,8 | 94,0 | 97,1  | 116,6 | 122,0 | 130,0 | 144,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 33,7 | 66,8 | 79,3 | 97,8  | 100,3 | 120,0 | 122,3 | 131,3 | 149,0 | 23,9 | 93,0 | 96,0  | 114,6 | 119,3 | 126,0 | 141,5 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 27,6 | 65,5 | 78,0 | 96,5  | 99,0  | 118,0 | 119,0 | 127,0 | 144,0 | 18,0 | 92,0 | 95,0  | 112,0 | 116,0 | 122,0 | 137,3 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22,8 | 63,8 | 76,3 | 94,5  | 95,6  | 115,3 | 114,6 | 122,3 | 138,0 | 13,2 | 90,0 | 93,0  | 109,3 | 111,6 | 117,6 | 132,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 18,5 | 62,0 | 74,6 | 92,5  | 92,1  | 112,6 | 110,0 | 117,0 | 129,3 | 9,0  | 88,1 | 90,0  | 107,0 | 108,0 | 112,0 | 125,3 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 14,7 | 60,0 | 73,0 | 90,5  | 89,5  | 110,0 | 106,0 | 113,0 | 120,3 | 5,3  | 86,5 | 88,0  | 105,0 | 105,0 | 109,0 | 117,0 | 54  |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 13,9 | 59,5 | 72,5 | 90,0  | 89,0  | 109,0 | 105,0 | 111,0 | 118,0 | 4,5  | 86,0 | 86,7  | 104,3 | 103,8 | 107,1 | 114,5 | 55  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11,5 | 58,3 | 71,3 | 88,7  | 86,3  | 107,0 | 102,0 | 108,0 | 110,0 | -    | 84,8 | 84,7  | 102,3 | 101,3 | 104,0 | 107,0 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8,6  | 56,6 | 69,5 | 86,1  | 83,5  | 102,5 | 98,3  | 102,6 | 101,0 | -    | 83,1 | 81,8  | 98,3  | 97,8  | 99,3  | 98,3  | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6,0  | 55,0 | 68,0 | 84,5  | 80,5  | 95,5  | 95,0  | 96,0  | 92,3  | -    | 81,5 | 79,5  | 93,0  | 93,5  | 94,0  | 90,0  | 66  |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4,0  | 53,7 | 66,0 | 80,7  | 78,7  | 90,0  | 90,0  | 90,2  | 86,0  | -    | 78,2 | 77,7  | 87,7  | 88,2  | 88,2  | 84,0  | 69  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 53,3 | 65,6 | 79,5  | 78,1  | 88,1  | 88,3  | 88,3  | 84,0  | -    | 77,1 | 77,1  | 86,0  | 86,5  | 86,3  | 82,0  | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 51,6 | 63,8 | 74,3  | 74,3  | 81,1  | 81,6  | 81,0  | 76,6  | -    | 72,3 | 73,0  | 79,3  | 79,6  | 79,1  | 74,6  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 50,0 | 62,0 | 69,0  | 69,0  | 74,5  | 75,0  | 74,0  | 69,6  | -    | 67,0 | 67,0  | 73,0  | 73,0  | 72,5  | 67,8  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 48,3 | 60,6 | 63,4  | 63,4  | 68,9  | 69,0  | 68,2  | 63,0  | -    | 61,6 | 61,6  | 66,6  | 67,0  | 66,5  | 61,5  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 46,7 | 58,3 | 58,5  | 58,5  | 63,5  | 63,5  | 63,0  | 57,6  | -    | 56,3 | 56,5  | 61,5  | 61,5  | 61,0  | 55,8  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 44,9 | 57,0 | 53,5  | 53,5  | 58,5  | 58,5  | 58,0  | 52,7  | -    | 51,0 | 51,5  | 56,5  | 56,5  | 56,0  | 50,6  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 41,9 | 52,5 | 47,7  | 49,1  | 53,5  | 53,8  | 53,3  | 48,1  | -    | 45,6 | 47,3  | 52,1  | 52,1  | 51,5  | 46,1  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 38,4 | 47,5 | 42,0  | 45,0  | 49,0  | 49,4  | 48,8  | 43,8  | -    | 40,2 | 43,4  | 47,8  | 47,7  | 46,9  | 41,9  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 35,0 | 43,0 | 36,4  | 41,2  | 45,1  | 45,2  | 44,6  | 39,8  | -    | 34,9 | 39,7  | 43,6  | 43,5  | 42,2  | 37,9  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 31,7 | 38,0 | 31,4  | 37,3  | 41,2  | 41,2  | 40,7  | 36,0  | -    | 30,1 | 36,2  | 39,8  | 39,7  | 37,8  | 34,1  | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 28,5 | 33,0 | 26,9  | 32,6  | 37,7  | 37,3  | 37,2  | 32,4  | -    | 25,8 | 32,2  | 36,2  | 36,1  | 33,8  | 30,6  | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 25,0 | 28,5 | 23,0  | 27,5  | 34,4  | 33,3  | 33,8  | 29,1  | -    | 21,8 | 27,6  | 32,9  | 32,8  | 30,1  | 27,3  | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 21,5 | 23,3 | 19,6  | 23,4  | 31,4  | 29,6  | 30,8  | 26,1  | -    | 18,4 | 23,4  | 29,8  | 29,0  | 26,9  | 24,3  | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 18,0 | 18,3 | 16,6  | 20,2  | 28,7  | 26,4  | 28,1  | 23,3  | -    | 15,3 | 19,7  | 27,1  | 25,5  | 23,9  | 21,5  | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 14,7 | 13,4 | 14,2  | 17,5  | 26,3  | 23,6  | 25,7  | 20,8  | -    | 12,6 | 16,8  | 24,6  | 22,3  | 21,3  | 18,9  | 126 |
| 127                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 13,8 | 12,1 | 13,7  | 17,0  | 25,7  | 23,0  | 25,1  | 20,2  | -    | 12,0 | 16,1  | 24,0  | 21,6  | 20,7  | 18,3  | 127 |
| 129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | -    | -    | -     | -     | -     | -     | -     | -     | -    | 10,9 | 14,9  | 22,9  | 20,4  | 19,7  | 17,1  | 129 |

 0 t
  65 t
  125 t
  165 t
  205 t
  245 t
  285 t
  325 t

LSL\_1 – LSL\_7:  11-19 m

LSL\_9 – LSL\_13:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t

# Operation

LSL

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|  165 t +  50 t |      |  11-21 m |      |  8,40 m |       |  9.8 m/s |       | 360°                                                                                     |      | EN13000 |       |           |       |       |       |       |       |        |       |        |       |                                                                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|------|---------|-------|-----------|-------|-------|-------|-------|-------|--------|-------|--------|-------|-------------------------------------------------------------------------------------|--|
|  150 m                                                                                          |      |                                                                                           |      |                                                                                          |       |                                                                                            |       |  153 m |      |         |       |           |       |       |       |       |       |        |       |        |       |                                                                                     |  |
|  LSL_5                                                                                          |      | LSL_7                                                                                     |      | LSL_9                                                                                    |       | LSL_11                                                                                     |       | LSL_13                                                                                   |      | LSL_15  |       | LSL_5     |       | LSL_7 |       | LSL_9 |       | LSL_11 |       | LSL_13 |       | LSL_15                                                                              |  |
|  0 t                                                                                            |      | 0 t-325 t                                                                                 |      |                                                                                          |       |                                                                                            |       |                                                                                          |      | 0 t     |       | 0 t-325 t |       |       |       |       |       |        |       |        |       |  |  |
| m                                                                                                                                                                                | t    | t                                                                                         | t    | t                                                                                        | t     | t                                                                                          | t     | t                                                                                        | t    | t       | t     | t         | t     | t     | t     | t     | t     | t      | t     | t      | t     | m                                                                                   |  |
| 16                                                                                                                                                                               | 87,0 | 90,5                                                                                      | 95,5 | 113,0                                                                                    | 119,0 | 129,0                                                                                      | 141,0 | -                                                                                        | -    | -       | -     | -         | -     | -     | -     | -     | -     | -      | -     | -      | -     | 16                                                                                  |  |
| 17                                                                                                                                                                               | 82,7 | 90,2                                                                                      | 95,5 | 113,0                                                                                    | 119,0 | 129,0                                                                                      | 141,0 | 81,5                                                                                     | 86,0 | 90,5    | 108,0 | 113,0     | 122,0 | 133,0 | 133,0 | 133,0 | 133,0 | 133,0  | 133,0 | 133,0  | 133,0 | 17                                                                                  |  |
| 18                                                                                                                                                                               | 79,0 | 90,0                                                                                      | 95,5 | 113,0                                                                                    | 119,0 | 129,0                                                                                      | 141,0 | 77,0                                                                                     | 86,0 | 90,5    | 108,0 | 113,0     | 122,0 | 133,0 | 133,0 | 133,0 | 133,0 | 133,0  | 133,0 | 133,0  | 133,0 | 18                                                                                  |  |
| 20                                                                                                                                                                               | 70,0 | 90,0                                                                                      | 95,0 | 113,0                                                                                    | 119,0 | 128,0                                                                                      | 141,0 | 68,0                                                                                     | 85,5 | 90,0    | 107,0 | 113,0     | 122,0 | 133,0 | 133,0 | 133,0 | 133,0 | 133,0  | 133,0 | 133,0  | 133,0 | 20                                                                                  |  |
| 22                                                                                                                                                                               | 62,0 | 89,5                                                                                      | 94,5 | 112,0                                                                                    | 119,0 | 128,0                                                                                      | 141,0 | 60,0                                                                                     | 85,0 | 90,0    | 107,0 | 113,0     | 122,0 | 133,0 | 133,0 | 133,0 | 133,0 | 133,0  | 133,0 | 133,0  | 133,0 | 22                                                                                  |  |
| 24                                                                                                                                                                               | 55,0 | 89,0                                                                                      | 94,5 | 112,0                                                                                    | 119,0 | 128,0                                                                                      | 140,0 | 53,5                                                                                     | 84,5 | 89,5    | 107,0 | 113,0     | 122,0 | 133,0 | 133,0 | 133,0 | 133,0 | 133,0  | 133,0 | 133,0  | 133,0 | 24                                                                                  |  |
| 26                                                                                                                                                                               | 49,3 | 89,0                                                                                      | 94,0 | 112,0                                                                                    | 118,0 | 128,0                                                                                      | 139,5 | 47,7                                                                                     | 84,5 | 89,0    | 107,0 | 112,0     | 121,0 | 132,0 | 132,0 | 132,0 | 132,0 | 132,0  | 132,0 | 132,0  | 132,0 | 26                                                                                  |  |
| 28                                                                                                                                                                               | 44,0 | 88,5                                                                                      | 93,5 | 112,0                                                                                    | 118,0 | 127,0                                                                                      | 139,0 | 42,4                                                                                     | 84,0 | 89,0    | 106,0 | 112,0     | 121,0 | 131,0 | 131,0 | 131,0 | 131,0 | 131,0  | 131,0 | 131,0  | 131,0 | 28                                                                                  |  |
| 30                                                                                                                                                                               | 39,2 | 88,0                                                                                      | 93,0 | 111,0                                                                                    | 117,0 | 127,0                                                                                      | 138,0 | 37,7                                                                                     | 83,5 | 88,5    | 106,0 | 111,0     | 120,0 | 130,5 | 130,5 | 130,5 | 130,5 | 130,5  | 130,5 | 130,5  | 130,5 | 30                                                                                  |  |
| 34                                                                                                                                                                               | 31,4 | 87,0                                                                                      | 92,0 | 109,6                                                                                    | 115,6 | 124,3                                                                                      | 137,0 | 29,9                                                                                     | 82,8 | 87,5    | 104,6 | 109,6     | 118,0 | 129,5 | 129,5 | 129,5 | 129,5 | 129,5  | 129,5 | 129,5  | 129,5 | 34                                                                                  |  |
| 38                                                                                                                                                                               | 24,5 | 85,8                                                                                      | 91,0 | 108,3                                                                                    | 112,6 | 120,3                                                                                      | 135,0 | 23,1                                                                                     | 82,0 | 86,6    | 103,3 | 107,6     | 115,3 | 128,0 | 128,0 | 128,0 | 128,0 | 128,0  | 128,0 | 128,0  | 128,0 | 38                                                                                  |  |
| 42                                                                                                                                                                               | 18,6 | 84,5                                                                                      | 90,0 | 107,0                                                                                    | 110,0 | 117,0                                                                                      | 131,0 | 17,3                                                                                     | 81,0 | 86,0    | 102,0 | 105,0     | 112,0 | 124,6 | 124,6 | 124,6 | 124,6 | 124,6  | 124,6 | 124,6  | 124,6 | 42                                                                                  |  |
| 46                                                                                                                                                                               | 14,0 | 82,8                                                                                      | 88,3 | 104,3                                                                                    | 106,6 | 112,6                                                                                      | 126,0 | 12,7                                                                                     | 79,6 | 84,3    | 99,3  | 101,6     | 107,6 | 120,0 | 120,0 | 120,0 | 120,0 | 120,0  | 120,0 | 120,0  | 120,0 | 46                                                                                  |  |
| 50                                                                                                                                                                               | 9,8  | 81,1                                                                                      | 85,7 | 101,8                                                                                    | 103,6 | 109,0                                                                                      | 121,3 | 8,5                                                                                      | 78,2 | 82,8    | 97,0  | 99,3      | 103,2 | 116,0 | 116,0 | 116,0 | 116,0 | 116,0  | 116,0 | 116,0  | 116,0 | 50                                                                                  |  |
| 54                                                                                                                                                                               | 6,0  | 79,5                                                                                      | 84,0 | 99,5                                                                                     | 100,0 | 104,0                                                                                      | 113,8 | 4,8                                                                                      | 76,5 | 81,5    | 94,5  | 96,5      | 100,0 | 110,0 | 110,0 | 110,0 | 110,0 | 110,0  | 110,0 | 110,0  | 110,0 | 54                                                                                  |  |
| 55                                                                                                                                                                               | 5,2  | 78,5                                                                                      | 83,0 | 99,0                                                                                     | 99,2  | 102,7                                                                                      | 111,6 | 4,0                                                                                      | 76,1 | 80,5    | 93,9  | 95,8      | 99,0  | 108,0 | 108,0 | 108,0 | 108,0 | 108,0  | 108,0 | 108,0  | 108,0 | 55                                                                                  |  |
| 56                                                                                                                                                                               | 4,4  | 78,1                                                                                      | 82,1 | 98,5                                                                                     | 98,5  | 101,5                                                                                      | 109,4 | -                                                                                        | 75,8 | 79,6    | 93,3  | 95,1      | 98,0  | 106,0 | 106,0 | 106,0 | 106,0 | 106,0  | 106,0 | 106,0  | 106,0 | 56                                                                                  |  |
| 58                                                                                                                                                                               | -    | 77,3                                                                                      | 81,0 | 97,5                                                                                     | 97,0  | 100,0                                                                                      | 105,0 | -                                                                                        | 75,1 | 78,8    | 92,1  | 93,8      | 96,5  | 102,0 | 102,0 | 102,0 | 102,0 | 102,0  | 102,0 | 102,0  | 102,0 | 58                                                                                  |  |
| 62                                                                                                                                                                               | -    | 75,1                                                                                      | 78,6 | 94,6                                                                                     | 94,1  | 96,3                                                                                       | 96,3  | -                                                                                        | 73,3 | 76,6    | 90,0  | 90,3      | 93,3  | 93,6  | 93,6  | 93,6  | 93,6  | 93,6   | 93,6  | 93,6   | 93,6  | 62                                                                                  |  |
| 66                                                                                                                                                                               | -    | 73,5                                                                                      | 76,5 | 91,0                                                                                     | 91,5  | 92,0                                                                                       | 88,1  | -                                                                                        | 72,0 | 75,0    | 88,0  | 88,0      | 90,0  | 85,6  | 85,6  | 85,6  | 85,6  | 85,6   | 85,6  | 85,6   | 85,6  | 66                                                                                  |  |
| 70                                                                                                                                                                               | -    | 71,0                                                                                      | 74,5 | 84,3                                                                                     | 84,8  | 84,6                                                                                       | 80,5  | -                                                                                        | 69,3 | 73,0    | 82,0  | 82,0      | 82,6  | 78,0  | 78,0  | 78,0  | 78,0  | 78,0   | 78,0  | 78,0   | 78,0  | 70                                                                                  |  |
| 74                                                                                                                                                                               | -    | 68,8                                                                                      | 70,8 | 77,8                                                                                     | 78,1  | 77,6                                                                                       | 73,3  | -                                                                                        | 67,0 | 69,2    | 76,0  | 75,7      | 75,6  | 71,0  | 71,0  | 71,0  | 71,0  | 71,0   | 71,0  | 71,0   | 71,0  | 74                                                                                  |  |
| 78                                                                                                                                                                               | -    | 66,5                                                                                      | 65,5 | 71,5                                                                                     | 71,5  | 71,0                                                                                       | 66,8  | -                                                                                        | 64,0 | 63,5    | 69,5  | 69,5      | 69,0  | 64,5  | 64,5  | 64,5  | 64,5  | 64,5   | 64,5  | 64,5   | 64,5  | 78                                                                                  |  |
| 82                                                                                                                                                                               | -    | 62,5                                                                                      | 60,1 | 65,5                                                                                     | 65,5  | 65,3                                                                                       | 60,5  | -                                                                                        | 60,8 | 58,5    | 63,8  | 63,8      | 63,3  | 58,5  | 58,5  | 58,5  | 58,5  | 58,5   | 58,5  | 58,5   | 58,5  | 82                                                                                  |  |
| 86                                                                                                                                                                               | -    | 58,1                                                                                      | 55,1 | 60,1                                                                                     | 60,1  | 60,0                                                                                       | 54,8  | -                                                                                        | 56,1 | 53,6    | 58,5  | 58,5      | 57,6  | 52,8  | 52,8  | 52,8  | 52,8  | 52,8   | 52,8  | 52,8   | 52,8  | 86                                                                                  |  |
| 90                                                                                                                                                                               | -    | 53,5                                                                                      | 50,5 | 55,5                                                                                     | 55,5  | 55,0                                                                                       | 49,7  | -                                                                                        | 51,5 | 49,0    | 53,5  | 53,5      | 52,0  | 47,9  | 47,9  | 47,9  | 47,9  | 47,9   | 47,9  | 47,9   | 47,9  | 90                                                                                  |  |
| 94                                                                                                                                                                               | -    | 48,9                                                                                      | 46,1 | 50,9                                                                                     | 50,9  | 49,8                                                                                       | 45,2  | -                                                                                        | 47,3 | 44,6    | 49,3  | 49,1      | 46,2  | 43,2  | 43,2  | 43,2  | 43,2  | 43,2   | 43,2  | 43,2   | 43,2  | 94                                                                                  |  |
| 98                                                                                                                                                                               | -    | 44,8                                                                                      | 42,0 | 46,6                                                                                     | 46,6  | 44,6                                                                                       | 41,0  | -                                                                                        | 43,1 | 40,5    | 45,0  | 44,8      | 40,8  | 39,1  | 39,1  | 39,1  | 39,1  | 39,1   | 39,1  | 39,1   | 39,1  | 98                                                                                  |  |
| 102                                                                                                                                                                              | -    | 41,0                                                                                      | 38,3 | 42,5                                                                                     | 42,5  | 39,9                                                                                       | 37,1  | -                                                                                        | 39,4 | 36,7    | 41,0  | 40,5      | 35,8  | 35,1  | 35,1  | 35,1  | 35,1  | 35,1   | 35,1  | 35,1   | 35,1  | 102                                                                                 |  |
| 106                                                                                                                                                                              | -    | 36,1                                                                                      | 34,9 | 38,7                                                                                     | 38,7  | 35,5                                                                                       | 33,4  | -                                                                                        | 34,3 | 33,3    | 37,2  | 35,4      | 31,3  | 31,5  | 31,5  | 31,5  | 31,5  | 31,5   | 31,5  | 31,5   | 31,5  | 106                                                                                 |  |
| 110                                                                                                                                                                              | -    | 30,5                                                                                      | 30,7 | 35,1                                                                                     | 34,6  | 31,3                                                                                       | 29,9  | -                                                                                        | 29,0 | 29,6    | 32,9  | 30,6      | 27,1  | 28,1  | 28,1  | 28,1  | 28,1  | 28,1   | 28,1  | 28,1   | 28,1  | 110                                                                                 |  |
| 114                                                                                                                                                                              | -    | 24,9                                                                                      | 25,5 | 31,8                                                                                     | 30,2  | 27,6                                                                                       | 26,6  | -                                                                                        | 23,5 | 25,5    | 28,2  | 26,2      | 23,3  | 24,8  | 24,8  | 24,8  | 24,8  | 24,8   | 24,8  | 24,8   | 24,8  | 114                                                                                 |  |
| 118                                                                                                                                                                              | -    | 20,4                                                                                      | 20,9 | 28,8                                                                                     | 26,2  | 24,3                                                                                       | 23,5  | -                                                                                        | 18,9 | 20,5    | 24,0  | 22,2      | 20,0  | 21,7  | 21,7  | 21,7  | 21,7  | 21,7   | 21,7  | 21,7   | 21,7  | 118                                                                                 |  |
| 122                                                                                                                                                                              | -    | 16,4                                                                                      | 17,2 | 26,0                                                                                     | 22,5  | 21,3                                                                                       | 20,7  | -                                                                                        | 15,0 | 16,1    | 20,2  | 18,5      | 17,0  | 18,9  | 18,9  | 18,9  | 18,9  | 18,9   | 18,9  | 18,9   | 18,9  | 122                                                                                 |  |
| 126                                                                                                                                                                              | -    | 13,2                                                                                      | 14,0 | 23,4                                                                                     | 19,2  | 18,6                                                                                       | 18,1  | -                                                                                        | 11,5 | 13,0    | 16,8  | 15,4      | 14,4  | 16,3  | 16,3  | 16,3  | 16,3  | 16,3   | 16,3  | 16,3   | 16,3  | 126                                                                                 |  |
| 130                                                                                                                                                                              | -    | 11,2                                                                                      | 11,5 | 21,1                                                                                     | 16,5  | 16,4                                                                                       | 15,7  | -                                                                                        | 9,3  | 10,4    | 13,9  | 12,6      | 12,3  | 13,9  | 13,9  | 13,9  | 13,9  | 13,9   | 13,9  | 13,9   | 13,9  | 130                                                                                 |  |
| 132                                                                                                                                                                              | -    | 10,3                                                                                      | 10,5 | 20,1                                                                                     | 15,3  | 15,3                                                                                       | 14,6  | -                                                                                        | 8,2  | 9,1     | 12,5  | 11,3      | 11,3  | 12,8  | 12,8  | 12,8  | 12,8  | 12,8   | 12,8  | 12,8   | 12,8  | 132                                                                                 |  |
| 134                                                                                                                                                                              | -    | -                                                                                         | -    | -                                                                                        | -     | -                                                                                          | -     | -                                                                                        | 7,2  | 8,0     | 11,4  | 10,2      | 10,5  | 11,7  | 11,7  | 11,7  | 11,7  | 11,7   | 11,7  | 11,7   | 11,7  | 134                                                                                 |  |

 0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

LSL\_5 – LSL\_7:  11-19 m

LSL\_9 – LSL\_13:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t

# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000 |      |      |      |       |       |       |       |                                        |      |      |      |       |       |       |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-------|-------|-------|-------|----------------------------------------|------|------|------|-------|-------|-------|-----|
| 156 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |      |      |       |       |       |       | 159 m                                  |      |      |      |       |       |       |     |
| LSL_5 LSL_7 LSL_9 LSL_11 LSL_13 LSL_15                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |      |      |       |       |       |       | LSL_5 LSL_7 LSL_9 LSL_11 LSL_13 LSL_15 |      |      |      |       |       |       |     |
| 0 t 0 t - 325 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      |      |      |       |       |       |       | 0 t 0 t - 325 t                        |      |      |      |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t    | t    | t    | t     | t     | t     | t     | t                                      | t    | t    | t    | t     | t     | t     | m   |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 77,0 | 79,0 | 85,5 | 102,0 | 108,0 | 116,0 | 128,0 | 73,0                                   | 75,5 | 81,0 | 97,0 | 102,0 | 109,0 | 121,0 | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 75,5 | 79,0 | 85,0 | 102,0 | 108,0 | 116,0 | 128,0 | 72,5                                   | 75,0 | 80,5 | 97,0 | 101,0 | 109,0 | 121,0 | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 67,0 | 78,5 | 85,0 | 102,0 | 108,0 | 116,0 | 127,0 | 65,0                                   | 74,5 | 80,5 | 96,5 | 101,0 | 109,0 | 121,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 59,5 | 78,0 | 84,5 | 102,0 | 108,0 | 116,0 | 127,0 | 57,5                                   | 74,5 | 80,0 | 96,5 | 101,0 | 108,0 | 121,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 52,5 | 78,0 | 84,0 | 101,0 | 108,0 | 116,0 | 127,0 | 51,0                                   | 74,0 | 79,5 | 96,0 | 101,0 | 108,0 | 120,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 47,1 | 77,5 | 84,0 | 100,0 | 107,0 | 116,0 | 126,5 | 45,5                                   | 73,5 | 79,5 | 95,5 | 100,0 | 107,0 | 119,5 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 41,8 | 77,0 | 83,5 | 99,5  | 106,0 | 115,0 | 126,0 | 40,3                                   | 73,5 | 79,0 | 95,5 | 99,5  | 107,0 | 119,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 37,2 | 76,5 | 83,5 | 98,5  | 104,0 | 115,0 | 125,0 | 35,7                                   | 73,0 | 79,0 | 95,0 | 98,5  | 106,0 | 118,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 29,6 | 75,5 | 82,5 | 96,5  | 102,0 | 113,0 | 124,0 | 28,1                                   | 72,0 | 78,0 | 93,6 | 96,8  | 104,0 | 117,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22,8 | 74,6 | 81,6 | 94,1  | 99,5  | 110,6 | 122,0 | 21,5                                   | 71,1 | 77,1 | 91,8 | 94,6  | 101,8 | 116,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17,0 | 74,0 | 81,0 | 91,5  | 96,5  | 108,0 | 119,3 | 15,7                                   | 70,5 | 76,5 | 89,5 | 92,0  | 99,5  | 113,6 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12,4 | 72,6 | 79,3 | 88,3  | 92,6  | 103,8 | 116,0 | 11,1                                   | 69,5 | 75,1 | 87,1 | 89,0  | 95,8  | 111,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8,3  | 71,2 | 78,0 | 84,8  | 89,5  | 99,8  | 112,6 | 7,0                                    | 68,3 | 74,0 | 84,3 | 85,6  | 92,0  | 107,6 | 50  |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5,6  | 70,2 | 76,8 | 82,7  | 87,2  | 97,6  | 110,0 | 4,3                                    | 67,3 | 72,8 | 82,5 | 83,6  | 89,7  | 105,0 | 53  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4,7  | 70,0 | 76,5 | 82,0  | 86,5  | 97,0  | 109,0 | -                                      | 67,0 | 72,5 | 82,0 | 83,0  | 89,0  | 104,0 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 68,3 | 75,1 | 78,5  | 82,5  | 94,0  | 104,0 | -                                      | 65,6 | 71,1 | 78,8 | 79,5  | 85,0  | 100,0 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 66,8 | 73,8 | 75,3  | 78,8  | 90,0  | 96,0  | -                                      | 64,3 | 69,8 | 75,8 | 76,1  | 81,6  | 92,6  | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 65,5 | 72,5 | 72,0  | 75,5  | 87,0  | 88,3  | -                                      | 63,0 | 68,5 | 73,5 | 73,5  | 78,0  | 85,5  | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 63,3 | 71,1 | 68,6  | 72,1  | 80,6  | 81,0  | -                                      | 61,6 | 67,1 | 70,6 | 70,3  | 75,0  | 78,5  | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 61,1 | 68,3 | 64,5  | 67,5  | 74,5  | 74,2  | -                                      | 59,7 | 65,5 | 67,0 | 66,5  | 69,5  | 71,8  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 59,5 | 63,5 | 59,5  | 62,5  | 68,0  | 68,0  | -                                      | 57,5 | 61,5 | 62,0 | 61,0  | 61,5  | 65,6  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 57,5 | 58,5 | 54,1  | 57,5  | 62,3  | 62,0  | -                                      | 55,5 | 56,5 | 57,0 | 55,6  | 53,8  | 60,0  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 54,8 | 53,7 | 49,0  | 52,4  | 56,3  | 56,3  | -                                      | 53,0 | 51,8 | 52,1 | 50,3  | 46,8  | 54,3  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 51,5 | 49,3 | 44,2  | 47,4  | 50,0  | 51,2  | -                                      | 50,0 | 47,6 | 47,5 | 45,1  | 40,3  | 49,2  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 47,5 | 44,9 | 39,2  | 42,4  | 44,6  | 46,7  | -                                      | 45,9 | 43,3 | 42,6 | 39,7  | 33,9  | 44,7  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 43,4 | 40,8 | 34,2  | 37,3  | 39,2  | 42,5  | -                                      | 41,9 | 39,2 | 37,6 | 34,5  | 28,1  | 40,5  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 39,4 | 36,9 | 29,3  | 32,3  | 34,0  | 38,5  | -                                      | 37,9 | 35,3 | 32,6 | 29,3  | 22,7  | 36,5  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 36,1 | 33,5 | 24,8  | 27,6  | 29,4  | 34,8  | -                                      | 34,5 | 31,9 | 27,5 | 24,8  | 18,0  | 32,9  | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 32,4 | 30,3 | 20,5  | 23,2  | 25,2  | 31,1  | -                                      | 30,9 | 28,8 | 22,9 | 20,6  | 13,9  | 29,5  | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 28,2 | 27,1 | 16,6  | 19,2  | 21,3  | 27,5  | -                                      | 25,8 | 25,8 | 18,5 | 16,6  | 10,1  | 26,2  | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 23,4 | 22,2 | 13,1  | 15,6  | 17,9  | 23,9  | -                                      | 20,7 | 20,8 | 14,6 | 13,0  | 6,8   | 23,3  | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 19,0 | 17,7 | 9,8   | 12,2  | 14,9  | 20,7  | -                                      | 16,5 | 16,3 | 11,0 | 9,7   | 4,1   | 20,3  | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 15,5 | 14,3 | 7,0   | 9,3   | 12,2  | 17,8  | -                                      | 12,5 | 12,6 | 7,8  | 6,7   | -     | 17,4  | 126 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 12,1 | 11,2 | 4,4   | 6,7   | 10,0  | 15,2  | -                                      | 9,1  | 9,4  | 5,0  | 4,1   | -     | 14,6  | 130 |
| 131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 11,2 | 10,4 | -     | 6,1   | 9,5   | 14,6  | -                                      | 8,3  | 8,6  | 4,3  | -     | -     | 14,0  | 131 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 9,0  | 8,5  | -     | 4,4   | 8,2   | 12,9  | -                                      | 6,4  | 6,6  | -    | -     | -     | 12,2  | 134 |
| 137                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 6,9  | 6,8  | -     | -     | 7,1   | 11,4  | -                                      | 4,9  | 4,8  | -    | -     | -     | 10,5  | 137 |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | -    | -    | -     | -     | -     | -     | -                                      | 4,4  | 4,3  | -    | -     | -     | 10,0  | 138 |
| 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | -    | -    | -     | -     | -     | -     | -                                      | -    | -    | -    | -     | -     | 9,0   | 140 |

|                                                                                     |     |      |       |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-------------------------------------------------------------------------------------|-----|------|-------|-------|-------|-------|-------|-------|

LSL\_5 – LSL\_7:  11-19 m

LSL\_9 – LSL\_13:  11-21 m

LSL\_15:  13-21 m

LSL\_15:  225 t +  50 t

# Operation

LSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |      |  11-21 m |        |        |       |  8,40 m |        |           |        |  9.8 m/s |      |        | 360°   |           | EN13000 |      |     |           |   |                                                                                     |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|--------|--------|-------|------------------------------------------------------------------------------------------|--------|-----------|--------|--------------------------------------------------------------------------------------------|------|--------|--------|-----------|---------|------|-----|-----------|---|-------------------------------------------------------------------------------------|
| 162 m                                                                                          |      |                                                                                           |        |        |       | 165 m                                                                                    |        |           |        |                                                                                            |      | 168 m  |        |           | 171 m   |      |     |           |   |                                                                                     |
| LSL_9                                                                                          |      | LSL_11                                                                                    | LSL_13 | LSL_15 | LSL_9 |                                                                                          | LSL_11 | LSL_13    | LSL_15 | LSL_13                                                                                     |      | LSL_15 | LSL_13 |           | LSL_15  |      |     |           |   |                                                                                     |
|  0 t          |      | 0 t-325 t                                                                                 |        |        |       | 0 t                                                                                      |        | 0 t-325 t |        |                                                                                            |      | 0 t    |        | 0 t-325 t |         | 0 t  |     | 0 t-325 t |   |  |
| m                                                                                              | t    | t                                                                                         | t      | t      | t     | t                                                                                        | t      | t         | t      | t                                                                                          | t    | t      | t      | t         | t       | t    | t   | t         | m |                                                                                     |
| 18                                                                                             | 70,5 | 91,5                                                                                      | 96,0   | 104,0  | 115,0 | 68,5                                                                                     | 86,0   | 90,5      | 98,0   | 109,0                                                                                      | 65,5 | 92,0   | 104,0  | 63,5      | 87,0    | 97,5 | 18  |           |   |                                                                                     |
| 20                                                                                             | 61,5 | 91,0                                                                                      | 95,5   | 103,0  | 115,0 | 59,5                                                                                     | 85,5   | 90,5      | 98,0   | 109,0                                                                                      | 57,0 | 91,5   | 104,0  | 55,0      | 86,5    | 97,5 | 20  |           |   |                                                                                     |
| 22                                                                                             | 54,0 | 90,5                                                                                      | 95,5   | 103,0  | 114,0 | 52,0                                                                                     | 85,0   | 90,0      | 97,5   | 108,0                                                                                      | 49,9 | 91,5   | 103,0  | 47,9      | 86,0    | 97,0 | 22  |           |   |                                                                                     |
| 24                                                                                             | 47,8 | 90,5                                                                                      | 95,5   | 103,0  | 114,0 | 45,9                                                                                     | 85,0   | 90,0      | 97,5   | 108,0                                                                                      | 43,5 | 91,5   | 103,0  | 41,5      | 86,0    | 96,5 | 24  |           |   |                                                                                     |
| 26                                                                                             | 41,9 | 90,0                                                                                      | 95,0   | 103,0  | 113,5 | 40,1                                                                                     | 84,5   | 90,0      | 97,5   | 107,5                                                                                      | 37,7 | 91,0   | 102,5  | 35,8      | 86,0    | 96,2 | 26  |           |   |                                                                                     |
| 28                                                                                             | 36,6 | 90,0                                                                                      | 94,5   | 102,0  | 113,0 | 34,9                                                                                     | 84,5   | 89,5      | 97,0   | 107,0                                                                                      | 32,6 | 90,5   | 102,0  | 30,8      | 85,5    | 96,0 | 28  |           |   |                                                                                     |
| 30                                                                                             | 32,0 | 89,5                                                                                      | 94,0   | 102,0  | 112,5 | 30,3                                                                                     | 84,0   | 89,0      | 96,5   | 106,5                                                                                      | 28,0 | 90,5   | 101,5  | 26,2      | 85,0    | 95,2 | 30  |           |   |                                                                                     |
| 34                                                                                             | 24,2 | 88,5                                                                                      | 92,6   | 100,3  | 111,5 | 22,7                                                                                     | 83,3   | 88,3      | 95,8   | 105,5                                                                                      | 20,4 | 90,1   | 100,5  | 18,7      | 84,6    | 94,2 | 34  |           |   |                                                                                     |
| 38                                                                                             | 17,4 | 87,1                                                                                      | 90,8   | 98,5   | 110,0 | 15,9                                                                                     | 82,5   | 87,1      | 94,8   | 104,0                                                                                      | 13,7 | 89,3   | 99,5   | 12,1      | 84,0    | 93,2 | 38  |           |   |                                                                                     |
| 42                                                                                             | 11,6 | 85,5                                                                                      | 88,5   | 96,5   | 108,0 | 10,1                                                                                     | 81,5   | 85,5      | 93,5   | 102,0                                                                                      | 8,0  | 88,0   | 98,1   | 6,4       | 83,0    | 91,8 | 42  |           |   |                                                                                     |
| 43                                                                                             | 10,4 | 85,0                                                                                      | 88,0   | 95,7   | 107,5 | 8,9                                                                                      | 81,1   | 85,0      | 93,0   | 101,5                                                                                      | 6,8  | 87,5   | 97,7   | 5,1       | 82,5    | 91,5 | 43  |           |   |                                                                                     |
| 45                                                                                             | 8,1  | 84,0                                                                                      | 87,0   | 94,2   | 106,5 | 6,5                                                                                      | 80,3   | 83,8      | 91,8   | 100,5                                                                                      | 4,4  | 86,5   | 96,9   | -         | 81,7    | 90,8 | 45  |           |   |                                                                                     |
| 46                                                                                             | 7,0  | 83,5                                                                                      | 86,0   | 93,5   | 106,0 | 5,3                                                                                      | 80,0   | 83,2      | 91,2   | 100,0                                                                                      | -    | 86,0   | 96,5   | -         | 81,3    | 90,5 | 46  |           |   |                                                                                     |
| 47                                                                                             | 5,8  | 83,0                                                                                      | 85,2   | 92,7   | 105,2 | 4,2                                                                                      | 79,7   | 82,6      | 90,6   | 99,5                                                                                       | -    | 85,5   | 96,0   | -         | 80,9    | 90,0 | 47  |           |   |                                                                                     |
| 48                                                                                             | 4,7  | 82,5                                                                                      | 84,5   | 92,0   | 104,4 | -                                                                                        | 79,5   | 82,0      | 90,0   | 99,0                                                                                       | -    | 85,0   | 95,5   | -         | 80,5    | 89,5 | 48  |           |   |                                                                                     |
| 50                                                                                             | -    | 81,3                                                                                      | 83,1   | 90,1   | 102,8 | -                                                                                        | 78,5   | 80,8      | 88,5   | 98,0                                                                                       | -    | 83,6   | 94,3   | -         | 79,5    | 88,2 | 50  |           |   |                                                                                     |
| 54                                                                                             | -    | 79,0                                                                                      | 80,5   | 87,5   | 99,6  | -                                                                                        | 76,5   | 78,5      | 86,0   | 95,1                                                                                       | -    | 81,5   | 91,6   | -         | 77,5    | 85,6 | 54  |           |   |                                                                                     |
| 58                                                                                             | -    | 77,0                                                                                      | 78,1   | 83,8   | 97,0  | -                                                                                        | 75,1   | 76,5      | 83,6   | 92,5                                                                                       | -    | 79,3   | 89,0   | -         | 75,5    | 83,0 | 58  |           |   |                                                                                     |
| 62                                                                                             | -    | 74,5                                                                                      | 75,3   | 80,3   | 90,3  | -                                                                                        | 73,6   | 74,0      | 81,5   | 86,8                                                                                       | -    | 77,5   | 82,6   | -         | 73,6    | 80,0 | 62  |           |   |                                                                                     |
| 66                                                                                             | -    | 72,5                                                                                      | 73,0   | 77,5   | 83,5  | -                                                                                        | 72,0   | 72,0      | 79,5   | 80,5                                                                                       | -    | 75,5   | 76,5   | -         | 72,0    | 75,5 | 66  |           |   |                                                                                     |
| 70                                                                                             | -    | 69,6                                                                                      | 69,8   | 74,7   | 76,5  | -                                                                                        | 70,5   | 69,5      | 74,0   | 74,0                                                                                       | -    | 72,6   | 70,5   | -         | 69,1    | 69,5 | 70  |           |   |                                                                                     |
| 74                                                                                             | -    | 66,5                                                                                      | 66,3   | 70,0   | 70,5  | -                                                                                        | 67,5   | 66,1      | 68,0   | 68,0                                                                                       | -    | 67,1   | 64,8   | -         | 64,8    | 63,8 | 74  |           |   |                                                                                     |
| 78                                                                                             | -    | 62,5                                                                                      | 62,0   | 64,0   | 64,5  | -                                                                                        | 62,5   | 62,5      | 62,0   | 62,1                                                                                       | -    | 61,5   | 59,1   | -         | 59,5    | 58,3 | 78  |           |   |                                                                                     |
| 82                                                                                             | -    | 57,8                                                                                      | 56,6   | 56,3   | 58,5  | -                                                                                        | 57,5   | 57,1      | 56,6   | 56,5                                                                                       | -    | 56,5   | 53,5   | -         | 54,5    | 53,0 | 82  |           |   |                                                                                     |
| 86                                                                                             | -    | 53,1                                                                                      | 51,5   | 49,2   | 53,1  | -                                                                                        | 52,6   | 51,9      | 51,6   | 51,0                                                                                       | -    | 51,6   | 48,8   | -         | 49,4    | 48,0 | 86  |           |   |                                                                                     |
| 90                                                                                             | -    | 48,3                                                                                      | 46,7   | 42,7   | 48,2  | -                                                                                        | 47,9   | 46,7      | 46,9   | 46,4                                                                                       | -    | 46,9   | 44,2   | -         | 45,0    | 43,4 | 90  |           |   |                                                                                     |
| 94                                                                                             | -    | 43,6                                                                                      | 41,5   | 36,6   | 43,7  | -                                                                                        | 43,6   | 41,3      | 41,1   | 41,8                                                                                       | -    | 42,6   | 39,8   | -         | 40,6    | 38,9 | 94  |           |   |                                                                                     |
| 98                                                                                             | -    | 38,8                                                                                      | 36,3   | 30,9   | 39,4  | -                                                                                        | 39,5   | 36,0      | 35,3   | 37,4                                                                                       | -    | 38,6   | 35,6   | -         | 36,5    | 34,7 | 98  |           |   |                                                                                     |
| 102                                                                                            | -    | 34,0                                                                                      | 31,1   | 25,5   | 35,4  | -                                                                                        | 35,7   | 30,6      | 29,7   | 33,5                                                                                       | -    | 34,4   | 31,6   | -         | 32,9    | 30,8 | 102 |           |   |                                                                                     |
| 106                                                                                            | -    | 28,7                                                                                      | 26,3   | 20,7   | 31,8  | -                                                                                        | 32,1   | 25,7      | 24,7   | 29,8                                                                                       | -    | 29,7   | 27,8   | -         | 29,4    | 27,1 | 106 |           |   |                                                                                     |
| 110                                                                                            | -    | 23,8                                                                                      | 21,8   | 16,3   | 28,4  | -                                                                                        | 27,9   | 21,1      | 19,9   | 26,5                                                                                       | -    | 25,2   | 23,8   | -         | 25,8    | 22,9 | 110 |           |   |                                                                                     |
| 114                                                                                            | -    | 19,2                                                                                      | 17,6   | 12,3   | 25,0  | -                                                                                        | 22,9   | 16,8      | 15,6   | 23,4                                                                                       | -    | 21,1   | 20,2   | -         | 21,8    | 19,1 | 114 |           |   |                                                                                     |
| 118                                                                                            | -    | 15,0                                                                                      | 13,7   | 8,8    | 21,4  | -                                                                                        | 18,3   | 12,9      | 11,8   | 20,4                                                                                       | -    | 17,2   | 16,6   | -         | 18,0    | 15,5 | 118 |           |   |                                                                                     |
| 122                                                                                            | -    | 11,3                                                                                      | 10,2   | 5,8    | 18,1  | -                                                                                        | 14,1   | 9,3       | 8,3    | 17,5                                                                                       | -    | 13,5   | 13,4   | -         | 14,3    | 12,3 | 122 |           |   |                                                                                     |
| 124                                                                                            | -    | 9,5                                                                                       | 8,5    | 4,4    | 16,5  | -                                                                                        | 12,2   | 7,6       | 6,8    | 16,0                                                                                       | -    | 11,8   | 11,8   | -         | 12,5    | 10,7 | 124 |           |   |                                                                                     |
| 126                                                                                            | -    | 7,8                                                                                       | 6,9    | -      | 15,0  | -                                                                                        | 10,3   | 5,9       | 5,6    | 14,5                                                                                       | -    | 10,2   | 10,4   | -         | 10,8    | 9,2  | 126 |           |   |                                                                                     |
| 128                                                                                            | -    | 6,2                                                                                       | 5,4    | -      | 13,6  | -                                                                                        | 8,5    | 4,4       | 4,3    | 13,0                                                                                       | -    | 8,6    | 9,0    | -         | 9,2     | 7,8  | 128 |           |   |                                                                                     |
| 130                                                                                            | -    | 4,7                                                                                       | 4,0    | -      | 12,3  | -                                                                                        | 6,9    | -         | -      | 11,5                                                                                       | -    | 7,1    | 7,6    | -         | 7,6     | 6,4  | 130 |           |   |                                                                                     |
| 133                                                                                            | -    | -                                                                                         | -      | -      | 10,4  | -                                                                                        | 4,6    | -         | -      | 9,5                                                                                        | -    | 4,9    | 5,7    | -         | 5,3     | 4,4  | 133 |           |   |                                                                                     |
| 134                                                                                            | -    | -                                                                                         | -      | -      | 9,8   | -                                                                                        | -      | -         | -      | 8,9                                                                                        | -    | 4,3    | 5,0    | -         | 4,7     | -    | 134 |           |   |                                                                                     |
| 135                                                                                            | -    | -                                                                                         | -      | -      | 9,2   | -                                                                                        | -      | -         | -      | 8,3                                                                                        | -    | -      | 4,4    | -         | -       | -    | 135 |           |   |                                                                                     |
| 138                                                                                            | -    | -                                                                                         | -      | -      | 7,5   | -                                                                                        | -      | -         | -      | 6,6                                                                                        | -    | -      | -      | -         | -       | -    | 138 |           |   |                                                                                     |
| 142                                                                                            | -    | -                                                                                         | -      | -      | 5,5   | -                                                                                        | -      | -         | -      | 4,4                                                                                        | -    | -      | -      | -         | -       | -    | 142 |           |   |                                                                                     |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

LSL\_9 – LSL\_13: 11-21 m

LSL\_15: 13-21 m

LSL\_15: 225 t + 50 t



# FIXED FLY JIB

STARRER HILFSAUSLEGER

FLÉCHETTE FIXE

FALCONE FISSO

PLUMÍN FIJO

LANÇA AUXILIAR FIXA

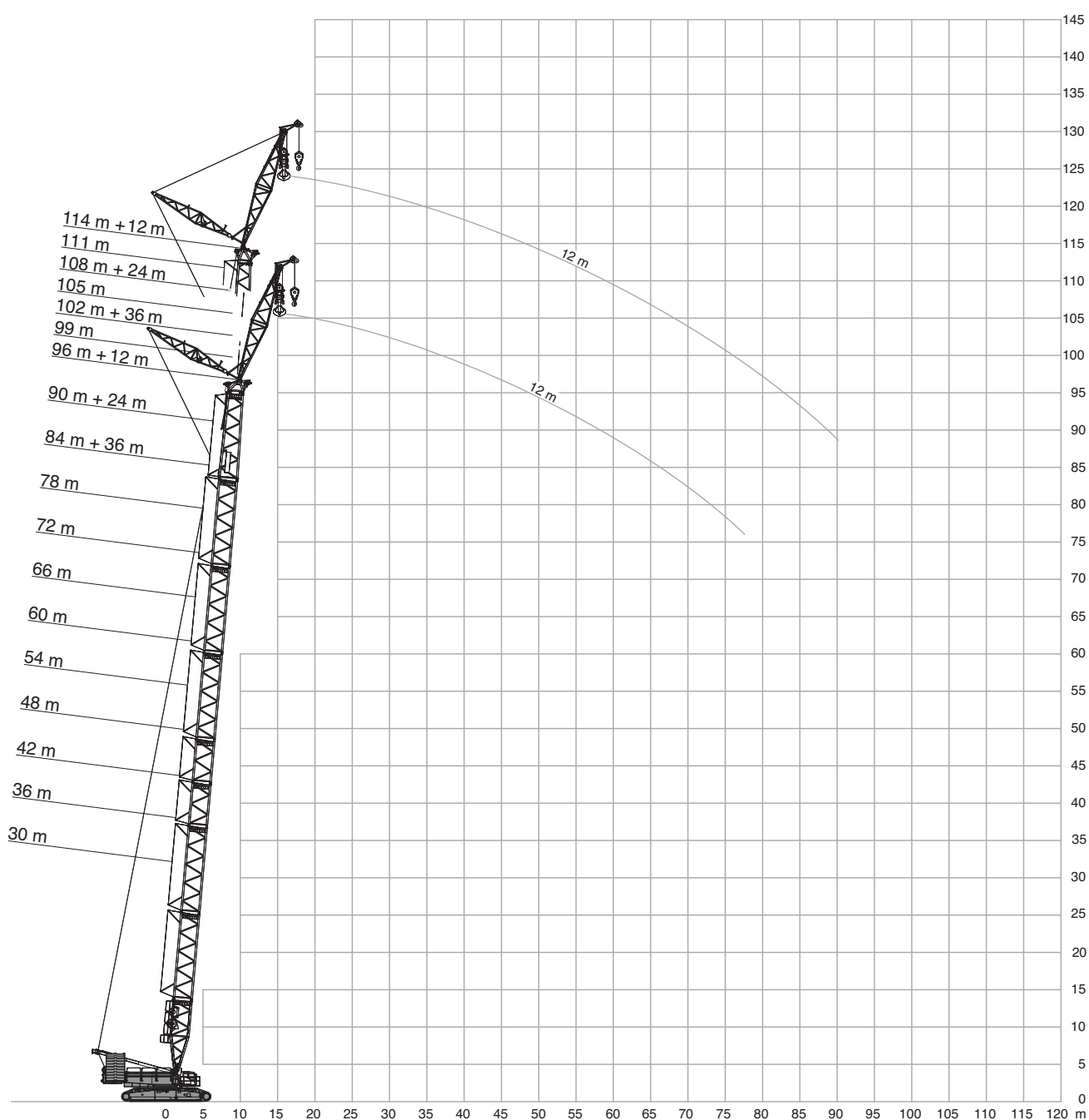
НЕПОДВИЖНАЯ СТРЕЛА С ИЗМЕНЯЕМЫМ ВЫЛЕТОМ



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH+LF, LH+LF





Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH+LF

| 12-36 m                           |       |       |      |      |      |      |      |      |      | 8,40 m |     |       | 9.8 m/s |      |      | 360° |      |      | EN13000 |     |
|-----------------------------------|-------|-------|------|------|------|------|------|------|------|--------|-----|-------|---------|------|------|------|------|------|---------|-----|
| 30 m                              |       |       |      |      |      |      |      |      |      | 36 m   |     |       |         |      |      |      |      |      |         |     |
| SH+LF_1                           |       |       |      |      |      |      |      |      |      |        |     |       |         |      |      |      |      |      |         |     |
| 12 m                              |       |       | 24 m |      |      | 36 m |      |      | 12 m |        |     | 24 m  |         |      | 36 m |      |      |      |         |     |
| 15°                               | 20°   | 30°   | 15°  | 20°  | 30°  | 15°  | 20°  | 30°  | 15°  | 20°    | 30° | 15°   | 20°     | 30°  | 15°  | 20°  | 30°  | 15°  | 20°     | 30° |
| m                                 | t     | t     | t    | t    | t    | t    | t    | t    | t    | t      | t   | t     | t       | t    | t    | t    | t    | t    | t       | m   |
| 9                                 | 171,0 | -     | -    | -    | -    | -    | -    | -    | -    | -      | -   | -     | -       | -    | -    | -    | -    | -    | -       | 9   |
| 10                                | 160,0 | -     | -    | -    | -    | -    | -    | -    | -    | -      | -   | -     | -       | -    | -    | -    | -    | -    | -       | 10  |
| 11                                | 150,5 | 119,0 | -    | -    | -    | -    | -    | -    | -    | -      | -   | 157,0 | 122,0   | -    | -    | -    | -    | -    | -       | 11  |
| 12                                | 141,0 | 113,0 | 77,0 | -    | -    | -    | -    | -    | -    | -      | -   | 148,0 | 117,0   | -    | -    | -    | -    | -    | -       | 12  |
| 13                                | 133,5 | 108,0 | 74,2 | -    | -    | -    | -    | -    | -    | -      | -   | 141,0 | 112,0   | 75,5 | -    | -    | -    | -    | -       | 13  |
| 14                                | 126,0 | 103,0 | 71,5 | 78,5 | -    | -    | -    | -    | -    | -      | -   | 134,0 | 107,0   | 73,0 | 81,0 | -    | -    | -    | -       | 14  |
| 16                                | 114,0 | 95,0  | 67,0 | 71,0 | 57,5 | -    | -    | -    | -    | -      | -   | 122,0 | 99,5    | 69,0 | 73,5 | 59,0 | -    | -    | -       | 16  |
| 18                                | 105,0 | 87,5  | 63,0 | 64,5 | 53,0 | -    | 50,5 | -    | -    | -      | -   | 112,0 | 92,5    | 65,5 | 67,5 | 54,5 | -    | 51,5 | -       | 18  |
| 19                                | 101,0 | 84,7  | 61,5 | 61,7 | 51,2 | 36,1 | 48,4 | -    | -    | -      | -   | 108,0 | 89,5    | 63,7 | 64,7 | 52,7 | -    | 49,4 | -       | 19  |
| 20                                | 97,0  | 82,0  | 60,0 | 59,0 | 49,4 | 35,0 | 46,4 | -    | -    | -      | -   | 104,0 | 86,5    | 62,0 | 62,0 | 51,0 | 35,5 | 47,4 | -       | 20  |
| 21                                | 93,5  | 79,2  | 58,5 | 56,7 | 47,7 | 34,0 | 44,6 | 36,9 | -    | -      | -   | 100,5 | 84,0    | 60,7 | 59,7 | 49,4 | 34,5 | 45,7 | 37,6    | 21  |
| 22                                | 90,0  | 76,5  | 57,0 | 54,5 | 46,0 | 33,0 | 42,9 | 35,6 | -    | -      | -   | 97,0  | 81,5    | 59,5 | 57,5 | 47,8 | 33,6 | 44,0 | 36,3    | 22  |
| 24                                | 84,0  | 72,0  | 54,5 | 50,5 | 43,0 | 31,2 | 39,7 | 33,1 | -    | -      | -   | 91,0  | 77,0    | 57,0 | 53,5 | 44,9 | 31,9 | 41,0 | 34,0    | 24  |
| 26                                | 78,5  | 68,5  | 52,0 | 47,5 | 40,4 | 29,6 | 36,8 | 31,0 | 22,0 | -      | -   | 85,5  | 73,0    | 54,5 | 50,0 | 42,4 | 30,4 | 38,4 | 31,9    | 26  |
| 27                                | 76,5  | 66,7  | 51,0 | 46,0 | 39,2 | 28,9 | 35,6 | 30,0 | 21,4 | -      | -   | 83,0  | 71,2    | 53,5 | 48,7 | 41,2 | 29,7 | 37,1 | 30,9    | 27  |
| 28                                | 74,5  | 65,0  | 50,0 | 44,5 | 38,1 | 28,2 | 34,4 | 29,0 | 20,8 | -      | -   | 80,5  | 69,5    | 52,5 | 47,4 | 40,1 | 29,1 | 35,9 | 30,0    | 28  |
| 30                                | 70,5  | 62,0  | 48,6 | 41,9 | 36,1 | 26,9 | 32,2 | 27,3 | 19,7 | -      | -   | 76,5  | 66,5    | 50,5 | 44,7 | 38,0 | 27,9 | 33,7 | 28,4    | 30  |
| 34                                | 64,0  | 57,0  | 45,9 | 37,5 | 32,7 | 24,8 | 28,5 | 24,4 | 17,8 | -      | -   | 65,0  | 61,0    | 48,0 | 40,2 | 34,6 | 25,7 | 29,9 | 25,5    | 34  |
| 38                                | 57,0  | 53,5  | -    | 34,0 | 29,9 | 23,0 | 25,6 | 22,1 | 16,2 | -      | -   | 55,5  | 55,5    | 45,7 | 36,5 | 31,7 | 24,0 | 27,1 | 23,1    | 38  |
| 39                                | 55,0  | -     | -    | 33,2 | 29,3 | 22,6 | 25,0 | 21,6 | 15,9 | -      | -   | 53,6  | 53,7    | 45,3 | 35,7 | 31,1 | 23,6 | 26,4 | 22,6    | 39  |
| 40                                | 53,0  | -     | -    | 32,5 | 28,7 | 22,3 | 24,4 | 21,1 | 15,6 | -      | -   | 51,8  | 51,9    | -    | 35,0 | 30,5 | 23,3 | 25,8 | 22,1    | 40  |
| 42                                | -     | -     | -    | 31,1 | 27,6 | 21,6 | 23,2 | 20,1 | 15,0 | -      | -   | 48,2  | 48,3    | -    | 33,5 | 29,4 | 22,6 | 24,6 | 21,2    | 42  |
| 43                                | -     | -     | -    | 30,5 | 27,1 | 21,3 | 22,6 | 19,7 | 14,7 | -      | -   | 46,6  | 46,7    | -    | 32,8 | 28,9 | 22,3 | 24,0 | 20,7    | 43  |
| 45                                | -     | -     | -    | 29,3 | 26,2 | 20,8 | 21,6 | 18,9 | 14,1 | -      | -   | 43,5  | -       | -    | 31,6 | 27,9 | 21,7 | 23,0 | 19,9    | 45  |
| 46                                | -     | -     | -    | 28,8 | 25,8 | 20,6 | 21,1 | 18,5 | 13,9 | -      | -   | -     | -       | -    | 31,0 | 27,4 | 21,4 | 22,5 | 19,5    | 46  |
| 50                                | -     | -     | -    | 27,0 | 24,4 | -    | 19,4 | 17,1 | 13,0 | -      | -   | -     | -       | -    | 29,0 | 25,8 | 20,5 | 20,8 | 18,1    | 50  |
| 51                                | -     | -     | -    | 26,6 | -    | -    | 19,0 | 16,8 | 12,8 | -      | -   | -     | -       | -    | 28,5 | 25,5 | -    | 20,4 | 17,8    | 51  |
| 54                                | -     | -     | -    | -    | -    | -    | 18,0 | 15,9 | 12,2 | -      | -   | -     | -       | -    | 27,3 | 24,6 | -    | 19,3 | 16,9    | 54  |
| 56                                | -     | -     | -    | -    | -    | -    | 17,4 | 15,4 | 11,9 | -      | -   | -     | -       | -    | 26,6 | -    | -    | 18,6 | 16,3    | 56  |
| 58                                | -     | -     | -    | -    | -    | -    | 16,8 | 15,0 | 11,7 | -      | -   | -     | -       | -    | -    | -    | -    | 18,0 | 15,8    | 58  |
| 61                                | -     | -     | -    | -    | -    | -    | 16,1 | 14,4 | -    | -      | -   | -     | -       | -    | -    | -    | -    | 17,1 | 15,2    | 61  |
| 62                                | -     | -     | -    | -    | -    | -    | 15,9 | -    | -    | -      | -   | -     | -       | -    | -    | -    | -    | 16,9 | 15,0    | 62  |
| 63                                | -     | -     | -    | -    | -    | -    | 15,7 | -    | -    | -      | -   | -     | -       | -    | -    | -    | -    | 16,6 | 14,8    | 63  |
| 66                                | -     | -     | -    | -    | -    | -    | -    | -    | -    | -      | -   | -     | -       | -    | -    | -    | -    | 16,0 | 14,3    | 66  |
| 68                                | -     | -     | -    | -    | -    | -    | -    | -    | -    | -      | -   | -     | -       | -    | -    | -    | -    | 15,6 | -       | 68  |
| 45 t 85 t 125 t 165 t 185 t 205 t |       |       |      |      |      |      |      |      |      |        |     |       |         |      |      |      |      |      |         |     |
| 0 t 30 t 50 t                     |       |       |      |      |      |      |      |      |      |        |     |       |         |      |      |      |      |      |         |     |



## Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH+LF

[illegible]

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SH+LF

[illegible]

# Operation

SH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  +  12-36 m |       |  8,40 m |                                                                                        |  9.8 m/s |      | 360°                                                                                   |      | EN13000                                                                               |                                                                                        |                                                                                        |   |                                                                                          |       |                                                                                        |                                                                                          |                                                                                         |      |                                                                                         |      |                                                                                         |   |                                                                                         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------|----------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------|-------|----------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|--|
|  72 m                                                                                        |       |                                                                                          |                                                                                        |                                                                                           |      |                                                                                        |      |                                                                                       |                                                                                        |  78 m |   |                                                                                          |       |                                                                                        |                                                                                          |                                                                                         |      |                                                                                         |      |                                                                                         |   |                                                                                         |  |
| SH+LF_1                                                                                                                                                                       |       |                                                                                          |                                                                                        |                                                                                           |      |                                                                                        |      |                                                                                       |                                                                                        |                                                                                        |   |                                                                                          |       |                                                                                        |                                                                                          |                                                                                         |      |                                                                                         |      |                                                                                         |   |                                                                                         |  |
|  12 m                                                                                        |       |                                                                                          |  24 m |                                                                                           |      |  36 m |      |                                                                                       |  12 m |                                                                                        |   |  24 m |       |                                                                                        |  36 m |                                                                                         |      |      |      |                                                                                         |   |                                                                                         |  |
|  15°                                                                                         |       |  20°    |                                                                                        |  30°     |      |  15°  |      |  20° |                                                                                        |  30°  |   |  15°    |       |  20° |                                                                                          |  30° |      |  15° |      |  20° |   |  30° |  |
| m                                                                                                                                                                             | t     | t                                                                                        | t                                                                                      | t                                                                                         | t    | t                                                                                      | t    | t                                                                                     | t                                                                                      | t                                                                                      | t | t                                                                                        | t     | t                                                                                      | t                                                                                        | t                                                                                       | t    | t                                                                                       | t    | t                                                                                       | t | m                                                                                       |  |
| 13                                                                                                                                                                            | 167,0 | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | -                                                                                        | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 13                                                                                      |  |
| 14                                                                                                                                                                            | 162,0 | 122,0                                                                                    | -                                                                                      | -                                                                                         | -    | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | 163,0                                                                                    | -     | -                                                                                      | -                                                                                        | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 14                                                                                      |  |
| 15                                                                                                                                                                            | 154,5 | 119,0                                                                                    | -                                                                                      | -                                                                                         | -    | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | 152,5                                                                                    | 121,0 | -                                                                                      | -                                                                                        | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 15                                                                                      |  |
| 16                                                                                                                                                                            | 147,0 | 116,0                                                                                    | 75,0                                                                                   | -                                                                                         | -    | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | 142,0                                                                                    | 118,0 | -                                                                                      | -                                                                                        | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 16                                                                                      |  |
| 17                                                                                                                                                                            | 138,5 | 113,0                                                                                    | 73,7                                                                                   | 81,0                                                                                      | -    | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | 134,0                                                                                    | 115,0 | 74,5                                                                                   | -                                                                                        | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 17                                                                                      |  |
| 18                                                                                                                                                                            | 130,0 | 110,0                                                                                    | 72,5                                                                                   | 78,5                                                                                      | -    | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | 126,0                                                                                    | 112,0 | 73,0                                                                                   | 79,5                                                                                     | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 18                                                                                      |  |
| 19                                                                                                                                                                            | 123,0 | 107,5                                                                                    | 71,2                                                                                   | 76,2                                                                                      | 58,5 | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | 119,0                                                                                    | 109,5 | 71,7                                                                                   | 77,5                                                                                     | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 19                                                                                      |  |
| 20                                                                                                                                                                            | 116,0 | 105,0                                                                                    | 70,0                                                                                   | 74,0                                                                                      | 57,0 | -                                                                                      | -    | -                                                                                     | -                                                                                      | -                                                                                      | - | 112,0                                                                                    | 107,0 | 70,5                                                                                   | 75,5                                                                                     | 58,0                                                                                    | -    | -                                                                                       | -    | -                                                                                       | - | 20                                                                                      |  |
| 21                                                                                                                                                                            | 110,0 | 103,0                                                                                    | 68,7                                                                                   | 72,0                                                                                      | 55,7 | -                                                                                      | 49,3 | -                                                                                     | -                                                                                      | -                                                                                      | - | 106,5                                                                                    | 104,5 | 69,5                                                                                   | 73,5                                                                                     | 56,7                                                                                    | -    | -                                                                                       | -    | -                                                                                       | - | 21                                                                                      |  |
| 22                                                                                                                                                                            | 104,0 | 101,0                                                                                    | 67,5                                                                                   | 70,0                                                                                      | 54,5 | -                                                                                      | 48,0 | -                                                                                     | -                                                                                      | -                                                                                      | - | 101,0                                                                                    | 102,0 | 68,5                                                                                   | 71,5                                                                                     | 55,5                                                                                    | -    | 48,1                                                                                    | -    | -                                                                                       | - | 22                                                                                      |  |
| 23                                                                                                                                                                            | 99,0  | 98,0                                                                                     | 66,5                                                                                   | 68,0                                                                                      | 53,2 | 35,0                                                                                   | 46,7 | -                                                                                     | -                                                                                      | -                                                                                      | - | 96,2                                                                                     | 97,2  | 67,5                                                                                   | 69,5                                                                                     | 54,2                                                                                    | -    | 46,9                                                                                    | -    | -                                                                                       | - | 23                                                                                      |  |
| 24                                                                                                                                                                            | 94,0  | 95,0                                                                                     | 65,5                                                                                   | 66,0                                                                                      | 52,0 | 34,4                                                                                   | 45,5 | 36,2                                                                                  | -                                                                                      | -                                                                                      | - | 91,5                                                                                     | 92,5  | 66,5                                                                                   | 67,5                                                                                     | 53,0                                                                                    | 34,6 | 45,8                                                                                    | -    | -                                                                                       | - | 24                                                                                      |  |
| 25                                                                                                                                                                            | 89,7  | 90,7                                                                                     | 64,5                                                                                   | 64,5                                                                                      | 51,0 | 33,8                                                                                   | 44,4 | 35,4                                                                                  | -                                                                                      | -                                                                                      | - | 87,2                                                                                     | 88,2  | 65,5                                                                                   | 66,0                                                                                     | 52,0                                                                                    | 34,0 | 44,7                                                                                    | 35,5 | -                                                                                       | - | 25                                                                                      |  |
| 26                                                                                                                                                                            | 85,5  | 86,5                                                                                     | 63,5                                                                                   | 63,0                                                                                      | 50,0 | 33,3                                                                                   | 43,3 | 34,6                                                                                  | -                                                                                      | -                                                                                      | - | 83,0                                                                                     | 84,0  | 64,5                                                                                   | 64,5                                                                                     | 51,0                                                                                    | 33,5 | 43,6                                                                                    | 34,8 | -                                                                                       | - | 26                                                                                      |  |
| 28                                                                                                                                                                            | 78,0  | 79,0                                                                                     | 62,0                                                                                   | 60,0                                                                                      | 48,0 | 32,2                                                                                   | 41,3 | 33,2                                                                                  | -                                                                                      | -                                                                                      | - | 75,5                                                                                     | 76,5  | 63,0                                                                                   | 61,5                                                                                     | 48,9                                                                                    | 32,5 | 41,7                                                                                    | 33,4 | -                                                                                       | - | 28                                                                                      |  |
| 30                                                                                                                                                                            | 70,5  | 71,0                                                                                     | 60,0                                                                                   | 57,0                                                                                      | 46,1 | 31,2                                                                                   | 39,5 | 31,9                                                                                  | 20,9                                                                                   | -                                                                                      | - | 69,0                                                                                     | 70,0  | 61,0                                                                                   | 58,5                                                                                     | 47,1                                                                                    | 31,5 | 40,0                                                                                    | 32,1 | -                                                                                       | - | 30                                                                                      |  |
| 31                                                                                                                                                                            | 67,2  | 67,7                                                                                     | 59,2                                                                                   | 55,8                                                                                      | 45,2 | 30,7                                                                                   | 38,6 | 31,3                                                                                  | 20,5                                                                                   | -                                                                                      | - | 66,0                                                                                     | 66,8  | 60,2                                                                                   | 57,3                                                                                     | 46,2                                                                                    | 31,0 | 39,2                                                                                    | 31,5 | 20,5                                                                                    | - | 31                                                                                      |  |
| 34                                                                                                                                                                            | 57,5  | 58,0                                                                                     | 57,0                                                                                   | 52,5                                                                                      | 42,8 | 29,4                                                                                   | 36,2 | 29,5                                                                                  | 19,6                                                                                   | -                                                                                      | - | 57,0                                                                                     | 57,5  | 58,0                                                                                   | 54,0                                                                                     | 43,8                                                                                    | 29,8 | 36,8                                                                                    | 29,9 | 19,6                                                                                    | - | 34                                                                                      |  |
| 38                                                                                                                                                                            | 47,9  | 48,4                                                                                     | 49,3                                                                                   | 48,4                                                                                      | 39,9 | 27,8                                                                                   | 33,3 | 27,4                                                                                  | 18,4                                                                                   | -                                                                                      | - | 47,3                                                                                     | 47,8  | 48,8                                                                                   | 50,0                                                                                     | 40,9                                                                                    | 28,3 | 34,0                                                                                    | 27,8 | 18,5                                                                                    | - | 38                                                                                      |  |
| 42                                                                                                                                                                            | 40,1  | 40,6                                                                                     | 41,4                                                                                   | 43,7                                                                                      | 37,4 | 26,5                                                                                   | 30,8 | 25,6                                                                                  | 17,4                                                                                   | -                                                                                      | - | 39,5                                                                                     | 40,0  | 40,8                                                                                   | 43,1                                                                                     | 38,4                                                                                    | 26,9 | 31,5                                                                                    | 26,0 | 17,5                                                                                    | - | 42                                                                                      |  |
| 46                                                                                                                                                                            | 33,6  | 34,0                                                                                     | 34,8                                                                                   | 37,3                                                                                      | 35,2 | 25,2                                                                                   | 28,5 | 23,9                                                                                  | 16,5                                                                                   | -                                                                                      | - | 32,8                                                                                     | 33,3  | 34,1                                                                                   | 36,6                                                                                     | 36,2                                                                                    | 25,7 | 29,3                                                                                    | 24,4 | 16,6                                                                                    | - | 46                                                                                      |  |
| 50                                                                                                                                                                            | 28,1  | 28,5                                                                                     | 29,1                                                                                   | 31,8                                                                                      | 32,6 | 24,1                                                                                   | 26,7 | 22,5                                                                                  | 15,6                                                                                   | -                                                                                      | - | 27,3                                                                                     | 27,7  | 28,4                                                                                   | 31,1                                                                                     | 31,9                                                                                    | 24,6 | 27,4                                                                                    | 23,0 | 15,8                                                                                    | - | 50                                                                                      |  |
| 54                                                                                                                                                                            | 23,5  | 23,8                                                                                     | 24,4                                                                                   | 27,1                                                                                      | 27,8 | 23,2                                                                                   | 25,2 | 21,3                                                                                  | 14,9                                                                                   | -                                                                                      | - | 22,7                                                                                     | 23,1  | 23,7                                                                                   | 26,3                                                                                     | 27,1                                                                                    | 23,6 | 25,8                                                                                    | 21,7 | 15,1                                                                                    | - | 54                                                                                      |  |
| 58                                                                                                                                                                            | 19,6  | 19,9                                                                                     | 20,4                                                                                   | 23,0                                                                                      | 23,7 | 22,3                                                                                   | 23,9 | 20,2                                                                                  | 14,3                                                                                   | -                                                                                      | - | 18,8                                                                                     | 19,1  | 19,7                                                                                   | 22,3                                                                                     | 22,9                                                                                    | 22,8 | 24,5                                                                                    | 20,7 | 14,5                                                                                    | - | 58                                                                                      |  |
| 62                                                                                                                                                                            | 16,3  | 16,6                                                                                     | 16,9                                                                                   | 19,6                                                                                      | 20,1 | 21,1                                                                                   | 22,0 | 19,2                                                                                  | 13,7                                                                                   | -                                                                                      | - | 15,5                                                                                     | 15,8  | 16,2                                                                                   | 18,8                                                                                     | 19,4                                                                                    | 20,4 | 21,2                                                                                    | 19,8 | 13,9                                                                                    | - | 62                                                                                      |  |
| 64                                                                                                                                                                            | 14,9  | 15,1                                                                                     | 15,4                                                                                   | 18,0                                                                                      | 18,5 | 19,4                                                                                   | 20,4 | 18,7                                                                                  | 13,3                                                                                   | -                                                                                      | - | 14,0                                                                                     | 14,3  | 14,7                                                                                   | 17,2                                                                                     | 17,8                                                                                    | 18,8 | 19,6                                                                                    | 19,3 | 13,6                                                                                    | - | 64                                                                                      |  |
| 66                                                                                                                                                                            | 13,5  | 13,7                                                                                     | -                                                                                      | 16,5                                                                                      | 17,0 | 17,8                                                                                   | 18,9 | 18,3                                                                                  | 13,1                                                                                   | -                                                                                      | - | 12,6                                                                                     | 12,8  | 13,2                                                                                   | 15,8                                                                                     | 16,3                                                                                    | 17,2 | 18,1                                                                                    | 18,8 | 13,4                                                                                    | - | 66                                                                                      |  |
| 68                                                                                                                                                                            | 12,2  | 12,4                                                                                     | -                                                                                      | 15,2                                                                                      | 15,6 | 16,4                                                                                   | 17,5 | 17,5                                                                                  | 12,9                                                                                   | -                                                                                      | - | 11,3                                                                                     | 11,5  | 11,9                                                                                   | 14,4                                                                                     | 14,9                                                                                    | 15,8 | 16,7                                                                                    | 17,4 | 13,1                                                                                    | - | 68                                                                                      |  |
| 70                                                                                                                                                                            | 11,0  | 11,1                                                                                     | -                                                                                      | 13,9                                                                                      | 14,3 | 15,0                                                                                   | 16,1 | 16,8                                                                                  | 12,7                                                                                   | -                                                                                      | - | 10,1                                                                                     | 10,3  | -                                                                                      | 13,1                                                                                     | 13,6                                                                                    | 14,4 | 15,4                                                                                    | 16,1 | 12,9                                                                                    | - | 70                                                                                      |  |
| 72                                                                                                                                                                            | 9,9   | 10,0                                                                                     | -                                                                                      | 12,7                                                                                      | 13,1 | 13,7                                                                                   | 14,9 | 15,5                                                                                  | 12,4                                                                                   | -                                                                                      | - | 9,0                                                                                      | 9,2   | -                                                                                      | 11,9                                                                                     | 12,4                                                                                    | 13,1 | 14,1                                                                                    | 14,8 | 12,7                                                                                    | - | 72                                                                                      |  |
| 74                                                                                                                                                                            | 8,8   | -                                                                                        | -                                                                                      | 11,6                                                                                      | 11,9 | 12,5                                                                                   | 13,7 | 14,3                                                                                  | 12,2                                                                                   | -                                                                                      | - | 7,9                                                                                      | 8,1   | -                                                                                      | 10,8                                                                                     | 11,2                                                                                    | 11,8 | 12,9                                                                                    | 13,6 | 12,5                                                                                    | - | 74                                                                                      |  |
| 75                                                                                                                                                                            | 8,3   | -                                                                                        | -                                                                                      | 11,0                                                                                      | 11,3 | 11,9                                                                                   | 13,1 | 13,7                                                                                  | 12,1                                                                                   | -                                                                                      | - | 7,4                                                                                      | 7,6   | -                                                                                      | 10,2                                                                                     | 10,6                                                                                    | 11,2 | 12,3                                                                                    | 13,0 | 12,4                                                                                    | - | 75                                                                                      |  |
| 76                                                                                                                                                                            | 7,8   | -                                                                                        | -                                                                                      | 10,5                                                                                      | 10,8 | -                                                                                      | 12,6 | 13,2                                                                                  | 12,0                                                                                   | -                                                                                      | - | 6,9                                                                                      | 7,1   | -                                                                                      | 9,7                                                                                      | 10,0                                                                                    | 10,7 | 11,8                                                                                    | 12,5 | 12,3                                                                                    | - | 76                                                                                      |  |
| 77                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 10,0                                                                                      | 10,3 | -                                                                                      | 12,1 | 12,6                                                                                  | 11,9                                                                                   | -                                                                                      | - | 6,4                                                                                      | 6,6   | -                                                                                      | 9,2                                                                                      | 9,5                                                                                     | 10,1 | 11,3                                                                                    | 11,9 | 12,2                                                                                    | - | 77                                                                                      |  |
| 78                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 9,5                                                                                       | 9,8  | -                                                                                      | 11,6 | 12,1                                                                                  | 11,9                                                                                   | -                                                                                      | - | 6,0                                                                                      | -     | -                                                                                      | 8,7                                                                                      | 9,0                                                                                     | 9,6  | 10,8                                                                                    | 11,4 | 12,1                                                                                    | - | 78                                                                                      |  |
| 80                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 8,5                                                                                       | 8,8  | -                                                                                      | 10,6 | 11,1                                                                                  | 11,4                                                                                   | -                                                                                      | - | 5,1                                                                                      | -     | -                                                                                      | 7,7                                                                                      | 8,0                                                                                     | 8,6  | 9,8                                                                                     | 10,3 | 11,2                                                                                    | - | 80                                                                                      |  |
| 81                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 8,0                                                                                       | 8,3  | -                                                                                      | 10,1 | 10,6                                                                                  | 11,1                                                                                   | -                                                                                      | - | 4,7                                                                                      | -     | -                                                                                      | 7,2                                                                                      | 7,5                                                                                     | -    | 9,3                                                                                     | 9,8  | 10,7                                                                                    | - | 81                                                                                      |  |
| 82                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 7,6                                                                                       | 7,9  | -                                                                                      | 9,6  | 10,1                                                                                  | 10,9                                                                                   | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | 6,8                                                                                      | 7,1                                                                                     | -    | 8,8                                                                                     | 9,4  | 10,3                                                                                    | - | 82                                                                                      |  |
| 84                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 6,8                                                                                       | 7,0  | -                                                                                      | 8,7  | 9,2                                                                                   | 9,9                                                                                    | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | 6,0                                                                                      | 6,2                                                                                     | -    | 7,9                                                                                     | 8,5  | 9,3                                                                                     | - | 84                                                                                      |  |
| 86                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 6,0                                                                                       | -    | -                                                                                      | 7,9  | 8,3                                                                                   | 9,0                                                                                    | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | 5,2                                                                                      | 5,4                                                                                     | -    | 7,1                                                                                     | 7,6  | 8,4                                                                                     | - | 86                                                                                      |  |
| 87                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | 5,6                                                                                       | -    | -                                                                                      | 7,5  | 7,9                                                                                   | 8,5                                                                                    | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | 4,8                                                                                      | 5,0                                                                                     | -    | 6,7                                                                                     | 7,1  | 7,9                                                                                     | - | 87                                                                                      |  |
| 89                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | 6,7  | 7,1                                                                                   | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | 4,0                                                                                      | 4,2                                                                                     | -    | 5,9                                                                                     | 6,3  | 7,0                                                                                     | - | 89                                                                                      |  |
| 90                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | 6,3  | 6,7                                                                                   | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | 3,7                                                                                      | -                                                                                       | -    | 5,5                                                                                     | 5,9  | 6,6                                                                                     | - | 90                                                                                      |  |
| 91                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | 5,9  | 6,3                                                                                   | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | -                                                                                        | -                                                                                       | -    | 5,1                                                                                     | 5,5  | 6,2                                                                                     | - | 91                                                                                      |  |
| 94                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | 4,9  | 5,2                                                                                   | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | -                                                                                        | -                                                                                       | -    | 4,1                                                                                     | 4,4  | -                                                                                       | - | 94                                                                                      |  |
| 95                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | 4,5  | 4,8                                                                                   | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | -                                                                                        | -                                                                                       | -    | 3,7                                                                                     | 4,0  | -                                                                                       | - | 95                                                                                      |  |
| 96                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | 4,2  | -                                                                                     | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | -                                                                                        | -                                                                                       | -    | -                                                                                       | 3,7  | -                                                                                       | - | 96                                                                                      |  |
| 98                                                                                                                                                                            | -     | -                                                                                        | -                                                                                      | -                                                                                         | -    | -                                                                                      | 3,5  | -                                                                                     | -                                                                                      | -                                                                                      | - | -                                                                                        | -     | -                                                                                      | -                                                                                        | -                                                                                       | -    | -                                                                                       | -    | -                                                                                       | - | 98                                                                                      |  |

# Operation

SH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 12-36 m |       |       |      |      |      |      |      |      |      | 8,40 m |   |   |   |   |   |   |   |   |   | 9.8 m/s |   |   |   |   |   |   |   |   |   | 360° |   |   |    |   |  |  |  |  |  | EN13000 |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|---------|-------|-------|------|------|------|------|------|------|------|--------|---|---|---|---|---|---|---|---|---|---------|---|---|---|---|---|---|---|---|---|------|---|---|----|---|--|--|--|--|--|---------|--|--|--|--|--|--|--|--|--|------|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|
| 84 m    |       |       |      |      |      |      |      |      |      | 90 m   |   |   |   |   |   |   |   |   |   | 96 m    |   |   |   |   |   |   |   |   |   |      |   |   |    |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| SH+LF_1 |       |       |      |      |      |      |      |      |      |        |   |   |   |   |   |   |   |   |   |         |   |   |   |   |   |   |   |   |   |      |   |   |    |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 12 m    |       |       |      |      |      |      |      |      |      | 24 m   |   |   |   |   |   |   |   |   |   | 36 m    |   |   |   |   |   |   |   |   |   | 12 m |   |   |    |   |  |  |  |  |  | 24 m    |  |  |  |  |  |  |  |  |  | 12 m |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 15°     |       |       |      |      |      |      |      |      |      | 20°    |   |   |   |   |   |   |   |   |   | 30°     |   |   |   |   |   |   |   |   |   | 15°  |   |   |    |   |  |  |  |  |  | 20°     |  |  |  |  |  |  |  |  |  | 30°  |  |  |  |  |  |  |  |  |  | 15° |  |  |  |  |  |  |  |  |  | 20° |  |  |  |  |  |  |  |  |  | 30° |  |  |  |  |  |  |  |  |  |
| m       | t     | t     | t    | t    | t    | t    | t    | t    | t    | t      | t | t | t | t | t | t | t | t | t | t       | t | t | t | t | t | t | t | t | t | t    | t | t | t  | m |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 14      | 156,0 | -     | -    | -    | -    | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 14 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 15      | 146,5 | 122,0 | -    | -    | -    | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 15 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 16      | 137,0 | 119,0 | -    | -    | -    | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 16 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 17      | 129,0 | 116,5 | 75,0 | -    | -    | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 17 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 18      | 121,0 | 114,0 | 73,5 | 80,5 | -    | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 18 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 19      | 114,5 | 111,5 | 72,5 | 78,5 | -    | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 19 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 20      | 108,0 | 109,0 | 71,5 | 76,5 | 58,5 | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 20 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 21      | 102,5 | 103,5 | 70,2 | 74,5 | 57,2 | -    | -    | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 21 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 22      | 97,0  | 98,0  | 69,0 | 72,5 | 56,0 | -    | 48,4 | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 22 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 24      | 87,5  | 88,5  | 67,0 | 69,0 | 53,5 | 34,8 | 46,1 | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 24 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 25      | 83,5  | 84,5  | 66,2 | 67,5 | 52,5 | 34,2 | 45,0 | -    | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 25 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 26      | 79,5  | 80,5  | 65,5 | 66,0 | 51,5 | 33,7 | 44,0 | 34,9 | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 26 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 28      | 72,0  | 73,0  | 63,5 | 63,0 | 49,8 | 32,8 | 42,2 | 33,6 | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 28 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 30      | 66,0  | 67,0  | 62,0 | 60,0 | 48,0 | 31,8 | 40,5 | 32,4 | -    | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 30 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 31      | 63,3  | 64,2  | 60,8 | 58,8 | 47,1 | 31,3 | 39,7 | 31,8 | 20,5 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 31 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 34      | 55,5  | 56,0  | 57,5 | 55,5 | 44,7 | 30,1 | 37,4 | 30,2 | 19,7 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 34 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 38      | 45,8  | 46,4  | 47,5 | 49,0 | 41,8 | 28,6 | 34,7 | 28,3 | 18,6 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 38 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 42      | 37,7  | 38,3  | 39,4 | 41,8 | 39,4 | 27,3 | 32,2 | 26,5 | 17,7 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 42 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 46      | 31,0  | 31,5  | 32,5 | 35,2 | 36,2 | 26,1 | 30,0 | 24,9 | 16,8 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 46 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 50      | 25,5  | 25,9  | 26,8 | 29,5 | 30,4 | 25,0 | 28,1 | 23,5 | 16,0 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 50 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 54      | 20,9  | 21,3  | 22,0 | 24,7 | 25,5 | 24,1 | 26,5 | 22,2 | 15,3 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 54 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 58      | 17,0  | 17,3  | 17,9 | 20,6 | 21,4 | 22,7 | 23,4 | 21,1 | 14,7 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 58 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 62      | 13,6  | 13,9  | 14,4 | 17,1 | 17,8 | 19,0 | 19,8 | 20,3 | 14,1 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 62 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 66      | 10,7  | 11,0  | 11,4 | 14,1 | 14,7 | 15,7 | 16,6 | 17,5 | 13,6 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 66 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 70      | 8,2   | 8,4   | 8,8  | 11,4 | 11,9 | 12,8 | 13,8 | 14,7 | 13,1 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 70 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 71      | 7,6   | 7,8   | 8,2  | 10,8 | 11,3 | 12,1 | 13,2 | 14,0 | 13,0 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 71 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 72      | 7,0   | 7,3   | 7,6  | 10,2 | 10,7 | 11,5 | 12,6 | 13,4 | 12,9 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 72 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 73      | 6,5   | 6,7   | -    | 9,6  | 10,1 | 10,9 | 12,0 | 12,7 | 12,8 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 73 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 74      | 6,0   | 6,2   | -    | 9,1  | 9,5  | 10,3 | 11,4 | 12,1 | 12,7 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 74 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 75      | 5,5   | 5,7   | -    | 8,5  | 8,9  | 9,7  | 10,8 | 11,5 | 12,3 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 75 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 76      | 5,0   | 5,2   | -    | 8,0  | 8,4  | 9,2  | 10,2 | 10,9 | 11,9 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 76 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 78      | 4,0   | 4,2   | -    | 7,0  | 7,4  | 8,1  | 9,2  | 9,9  | 11,1 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 78 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 79      | 3,6   | 3,7   | -    | 6,5  | 6,9  | 7,5  | 8,7  | 9,4  | 10,5 | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 79 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 82      | -     | -     | -    | 5,1  | 5,4  | 6,0  | 7,3  | 7,9  | 8,9  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 82 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 83      | -     | -     | -    | 4,6  | 4,9  | 5,5  | 6,8  | 7,4  | 8,4  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 83 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 84      | -     | -     | -    | 4,2  | 4,5  | 5,1  | 6,3  | 6,9  | 7,9  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 84 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 85      | -     | -     | -    | 3,8  | 4,1  | -    | 5,9  | 6,5  | 7,4  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 85 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 86      | -     | -     | -    | -    | 3,7  | -    | 5,5  | 6,0  | 7,0  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 86 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 90      | -     | -     | -    | -    | -    | -    | 3,9  | 4,4  | 5,2  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 90 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 91      | -     | -     | -    | -    | -    | -    | 3,5  | 4,0  | 4,8  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 91 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 92      | -     | -     | -    | -    | -    | -    | -    | 3,6  | 4,4  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 92 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 94      | -     | -     | -    | -    | -    | -    | -    | -    | 3,6  | -      | - | - | - | - | - | - | - | - | - | -       | - | - | - | - | - | - | - | - | - | -    | - | - | 94 |   |  |  |  |  |  |         |  |  |  |  |  |  |  |  |  |      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |

45 t

85 t

125 t

165 t

185 t

205 t

0 t

30 t

50 t

# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div><div><div></div><div></div><div></div></div><div>+</div><div><div><div></div><div></div><div></div></div><div>12 m</div></div><div><div><div></div><div></div><div></div></div><div>8,40 m</div></div><div><div><div></div><div></div><div></div></div><div>9.8 m/s</div></div><div>360°</div><div>EN13000</div></div> |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |         |       |       |      |  |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|-------|------|-------|---------|-------|-------|------|--|--|
| 48 m                                                                                                                                                                                                                                                                                                                        |       |       |      | 54 m  |       |      |       | 60 m  |      |       |       | 66 m |       |       |      | 72 m  |         |       |       | 75 m |  |  |
| LH+LF_1                                                                                                                                                                                                                                                                                                                     |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       | LH+LF_3 |       |       |      |  |  |
| 12 m                                                                                                                                                                                                                                                                                                                        |       |       |      |       |       |      |       |       |      |       |       |      |       |       |      |       |         |       |       |      |  |  |
| 15°                                                                                                                                                                                                                                                                                                                         |       | 20°   |      | 30°   |       | 15°  |       | 20°   |      | 30°   |       | 15°  |       | 20°   |      | 30°   |         | 15°   |       | 20°  |  |  |
| m                                                                                                                                                                                                                                                                                                                           | t     | t     | t    | t     | t     | t    | t     | t     | t    | t     | t     | t    | t     | t     | t    | t     | t       | t     | t     | t    |  |  |
| 10                                                                                                                                                                                                                                                                                                                          | 178,0 | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -       | -     | -     | -    |  |  |
| 11                                                                                                                                                                                                                                                                                                                          | 170,0 | 132,0 | -    | 175,0 | -     | -    | 178,0 | -     | -    | -     | -     | -    | -     | -     | -    | -     | -       | -     | -     | -    |  |  |
| 12                                                                                                                                                                                                                                                                                                                          | 162,0 | 127,0 | -    | 167,0 | 130,0 | -    | 172,0 | 132,0 | -    | 168,0 | -     | -    | 160,0 | -     | -    | 155,0 | -       | 154,0 | -     | -    |  |  |
| 13                                                                                                                                                                                                                                                                                                                          | 155,5 | 122,5 | 82,0 | 160,5 | 125,5 | 83,0 | 165,5 | 128,0 | -    | 163,0 | 130,0 | -    | 155,5 | 132,0 | -    | 152,0 | 114,0   | 151,5 | -     | -    |  |  |
| 14                                                                                                                                                                                                                                                                                                                          | 149,0 | 118,0 | 80,0 | 154,0 | 121,0 | 81,0 | 159,0 | 124,0 | 82,0 | 158,0 | 126,0 | 82,5 | 151,0 | 128,0 | -    | 149,0 | 111,0   | 149,0 | 112,0 | -    |  |  |
| 15                                                                                                                                                                                                                                                                                                                          | 143,5 | 114,5 | 78,0 | 148,5 | 117,5 | 79,2 | 153,5 | 120,5 | 80,2 | 153,0 | 123,0 | 81,0 | 147,0 | 125,0 | 81,5 | 145,0 | 108,5   | 146,0 | 109,0 | -    |  |  |
| 16                                                                                                                                                                                                                                                                                                                          | 138,0 | 111,0 | 76,0 | 143,0 | 114,0 | 77,5 | 148,0 | 117,0 | 78,5 | 148,0 | 120,0 | 79,5 | 143,0 | 122,0 | 80,0 | 141,0 | 106,0   | 143,0 | 106,0 | -    |  |  |
| 18                                                                                                                                                                                                                                                                                                                          | 128,0 | 104,0 | 72,5 | 134,0 | 108,0 | 74,0 | 139,0 | 111,0 | 75,5 | 140,0 | 114,0 | 76,5 | 135,0 | 116,0 | 77,5 | 133,0 | 101,0   | 132,0 | 102,0 | -    |  |  |
| 20                                                                                                                                                                                                                                                                                                                          | 120,0 | 99,0  | 69,5 | 126,0 | 102,0 | 71,0 | 130,0 | 105,0 | 72,5 | 125,0 | 108,0 | 73,5 | 121,0 | 111,0 | 74,5 | 121,0 | 96,5    | 119,0 | 97,5  | -    |  |  |
| 22                                                                                                                                                                                                                                                                                                                          | 113,0 | 94,0  | 67,0 | 118,0 | 97,5  | 68,5 | 117,0 | 100,0 | 70,0 | 113,0 | 103,0 | 71,0 | 109,0 | 106,0 | 72,5 | 109,0 | 92,0    | 107,0 | 93,0  | -    |  |  |
| 24                                                                                                                                                                                                                                                                                                                          | 106,0 | 89,0  | 64,5 | 107,0 | 93,0  | 66,0 | 106,0 | 96,0  | 67,5 | 102,0 | 99,0  | 69,0 | 99,5  | 100,0 | 70,0 | 99,0  | 88,5    | 97,0  | 89,5  | -    |  |  |
| 26                                                                                                                                                                                                                                                                                                                          | 97,0  | 85,0  | 62,0 | 96,0  | 88,5  | 64,0 | 95,0  | 92,0  | 65,5 | 93,5  | 94,5  | 66,5 | 90,5  | 91,5  | 68,0 | 90,5  | 85,0    | 88,5  | 86,0  | -    |  |  |
| 28                                                                                                                                                                                                                                                                                                                          | 87,5  | 81,5  | 60,0 | 86,5  | 85,0  | 61,5 | 85,5  | 86,0  | 63,5 | 84,0  | 84,5  | 64,5 | 83,0  | 84,0  | 66,0 | 83,0  | 82,0    | 81,5  | 82,0  | -    |  |  |
| 30                                                                                                                                                                                                                                                                                                                          | 79,5  | 78,0  | 58,0 | 78,5  | 79,0  | 60,0 | 77,0  | 77,5  | 61,5 | 76,0  | 76,5  | 63,0 | 75,0  | 75,5  | 64,0 | 75,0  | 75,5    | 74,5  | 75,0  | -    |  |  |
| 34                                                                                                                                                                                                                                                                                                                          | 66,5  | 67,0  | 54,5 | 65,5  | 66,0  | 56,5 | 64,0  | 64,5  | 58,0 | 63,0  | 63,5  | 59,5 | 62,0  | 62,5  | 61,0 | 62,0  | 62,5    | 61,0  | 62,0  | -    |  |  |
| 38                                                                                                                                                                                                                                                                                                                          | 57,0  | 57,0  | 52,0 | 55,5  | 56,0  | 53,5 | 54,5  | 54,5  | 55,5 | 53,0  | 53,5  | 54,0 | 52,0  | 52,5  | 53,0 | 52,0  | 52,5    | 51,5  | 51,5  | -    |  |  |
| 42                                                                                                                                                                                                                                                                                                                          | 49,4  | 49,6  | 49,9 | 48,1  | 48,4  | 48,8 | 46,8  | 47,1  | 47,6 | 45,4  | 45,8  | 46,3 | 44,5  | 44,8  | 45,5 | 44,3  | 44,7    | 43,6  | 44,0  | -    |  |  |
| 46                                                                                                                                                                                                                                                                                                                          | 43,2  | 43,3  | 43,6 | 41,9  | 42,1  | 42,4 | 40,5  | 40,8  | 41,2 | 39,1  | 39,4  | 39,9 | 38,2  | 38,5  | 39,0 | 38,0  | 38,4    | 37,3  | 37,6  | -    |  |  |
| 47                                                                                                                                                                                                                                                                                                                          | 41,9  | 42,0  | 42,2 | 40,6  | 40,8  | 41,1 | 39,2  | 39,4  | 39,8 | 37,8  | 38,1  | 38,5 | 36,9  | 37,1  | 37,6 | 36,7  | 37,0    | 35,9  | 36,2  | -    |  |  |
| 50                                                                                                                                                                                                                                                                                                                          | 38,1  | 38,2  | -    | 36,8  | 36,9  | 37,2 | 35,4  | 35,6  | 36,0 | 34,0  | 34,2  | 34,6 | 33,0  | 33,2  | 33,7 | 32,8  | 33,1    | 31,9  | 32,3  | -    |  |  |
| 51                                                                                                                                                                                                                                                                                                                          | 37,0  | 37,1  | -    | 35,7  | 35,8  | 36,0 | 34,3  | 34,5  | 34,9 | 32,9  | 33,1  | 33,5 | 31,8  | 32,0  | 32,5 | 31,6  | 31,9    | 30,7  | 31,1  | -    |  |  |
| 53                                                                                                                                                                                                                                                                                                                          | 34,9  | 35,0  | -    | 33,5  | 33,7  | -    | 32,1  | 32,3  | 32,7 | 30,7  | 30,9  | 31,3 | 29,5  | 29,7  | 30,2 | 29,3  | 29,6    | 28,4  | 28,7  | -    |  |  |
| 54                                                                                                                                                                                                                                                                                                                          | 33,9  | -     | -    | 32,5  | 32,7  | -    | 31,1  | 31,3  | 31,6 | 29,6  | 29,8  | 30,2 | 28,4  | 28,6  | 29,1 | 28,2  | 28,5    | 27,3  | 27,6  | -    |  |  |
| 55                                                                                                                                                                                                                                                                                                                          | 33,0  | -     | -    | 31,6  | 31,7  | -    | 30,1  | 30,3  | 30,6 | 28,6  | 28,8  | 29,2 | 27,3  | 27,6  | 28,0 | 27,2  | 27,4    | 26,3  | 26,6  | -    |  |  |
| 56                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | 30,7  | 30,8  | -    | 29,2  | 29,4  | 29,6 | 27,6  | 27,8  | 28,2 | 26,3  | 26,6  | 27,0 | 26,2  | 26,4    | 25,3  | 25,6  | -    |  |  |
| 57                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | 29,8  | 29,9  | -    | 28,3  | 28,5  | -    | 26,6  | 26,8  | 27,2 | 25,4  | 25,6  | 26,0 | 25,2  | 25,4    | 24,3  | 24,6  | -    |  |  |
| 58                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | 28,9  | -     | -    | 27,4  | 27,6  | -    | 25,7  | 25,9  | 26,2 | 24,5  | 24,7  | 25,1 | 24,3  | 24,5    | 23,4  | 23,6  | -    |  |  |
| 60                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | 27,4  | -     | -    | 25,7  | 25,9  | -    | 24,0  | 24,1  | 24,4 | 22,8  | 23,0  | 23,3 | 22,6  | 22,8    | 21,7  | 21,9  | -    |  |  |
| 62                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | 24,1  | 24,3  | -    | 22,4  | 22,5  | -    | 21,1  | 21,3  | 21,6 | 20,9  | 21,1    | 20,0  | 20,2  | -    |  |  |
| 64                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | 22,7  | -     | -    | 20,9  | 21,0  | -    | 19,6  | 19,8  | 20,1 | 19,5  | 19,6    | 18,5  | 18,7  | -    |  |  |
| 65                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | 22,0  | -     | -    | 20,2  | 20,3  | -    | 18,9  | 19,1  | -    | 18,8  | 18,9    | 17,8  | 18,0  | -    |  |  |
| 66                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | 19,5  | 19,6  | -    | 18,2  | 18,4  | -    | 18,1  | 18,2    | 17,1  | 17,3  | -    |  |  |
| 67                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | 18,8  | 19,0  | -    | 17,5  | 17,7  | -    | 17,4  | 17,5    | 16,4  | 16,6  | -    |  |  |
| 70                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | 17,0  | -     | -    | 15,7  | 15,9  | -    | 15,6  | 15,7    | 14,6  | 14,7  | -    |  |  |
| 71                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | 16,5  | -     | -    | 15,1  | 15,3  | -    | 15,0  | 15,1    | 14,0  | 14,1  | -    |  |  |
| 72                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | 14,6  | 14,7  | -    | 14,5  | 14,6    | 13,5  | 13,6  | -    |  |  |
| 74                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | 13,6  | -     | -    | 13,4  | -       | 12,4  | 12,5  | -    |  |  |
| 76                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | 12,6  | -     | -    | 12,4  | -       | 11,4  | -     | -    |  |  |
| 78                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -     | -    | -     | -       | 10,5  | -     | -    |  |  |

45 t

85 t

125 t

165 t

185 t

205 t

225 t

0 t

30 t

50 t

# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div><div><div></div><div></div><div></div></div><div>+</div><div><div><div></div><div></div><div></div></div><div>12 m</div></div><div><div><div></div><div></div><div></div></div><div>8,40 m</div></div><div><div><div></div><div></div><div></div></div><div>9.8 m/s</div></div><div>360°</div><div>EN13000</div></div> |       |       |      |         |       |       |       |         |       |      |       |         |       |         |       |         |       |       |    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|---------|-------|-------|-------|---------|-------|------|-------|---------|-------|---------|-------|---------|-------|-------|----|
| 78 m                                                                                                                                                                                                                                                                                                                        |       |       |      | 81 m    |       |       |       | 84 m    |       |      |       | 87 m    |       |         |       |         |       |       |    |
| LH+LF_1                                                                                                                                                                                                                                                                                                                     |       |       |      | LH+LF_3 |       |       |       | LH+LF_3 |       |      |       | LH+LF_4 |       | LH+LF_3 |       | LH+LF_4 |       |       |    |
| 12 m                                                                                                                                                                                                                                                                                                                        |       |       |      |         |       |       |       |         |       |      |       |         |       |         |       |         |       |       |    |
| 15°                                                                                                                                                                                                                                                                                                                         |       | 20°   |      | 30°     |       | 15°   |       | 20°     |       | 15°  |       | 20°     |       | 15°     |       | 20°     |       | 15°   |    |
| m                                                                                                                                                                                                                                                                                                                           | t     | t     | t    | t       | t     | t     | t     | t       | t     | t    | t     | t       | t     | t       | t     | t       | t     | t     | m  |
| 13                                                                                                                                                                                                                                                                                                                          | 145,0 | -     | -    | 158,0   | -     | 159,0 | -     | 137,0   | -     | -    | 154,0 | -       | 175,0 | -       | -     | -       | -     | -     | 13 |
| 14                                                                                                                                                                                                                                                                                                                          | 141,0 | 125,0 | -    | 153,0   | 113,0 | 155,0 | 113,0 | 135,0   | 124,0 | -    | 151,0 | 114,0   | 168,0 | -       | 146,0 | -       | 164,0 | -     | 14 |
| 15                                                                                                                                                                                                                                                                                                                          | 137,0 | 122,0 | -    | 148,5   | 110,0 | 150,0 | 110,5 | 133,5   | 123,0 | -    | 146,5 | 111,5   | 161,0 | 137,0   | 142,5 | 112,0   | 158,0 | 137,0 | 15 |
| 16                                                                                                                                                                                                                                                                                                                          | 133,0 | 119,0 | 81,0 | 144,0   | 107,0 | 145,0 | 108,0 | 132,0   | 122,0 | 81,5 | 142,0 | 109,0   | 155,0 | 134,0   | 139,0 | 109,0   | 152,0 | 134,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                          | 126,0 | 113,0 | 78,0 | 131,0   | 102,0 | 129,0 | 103,0 | 125,0   | 119,0 | 79,0 | 127,0 | 104,0   | 140,0 | 128,0   | 124,0 | 105,0   | 138,0 | 129,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                          | 116,0 | 108,0 | 75,5 | 118,0   | 98,5  | 115,0 | 99,0  | 113,0   | 114,0 | 76,5 | 113,0 | 100,0   | 125,0 | 123,0   | 111,0 | 101,0   | 123,0 | 124,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                          | 105,0 | 103,0 | 73,0 | 106,0   | 94,0  | 104,0 | 95,0  | 102,0   | 103,0 | 74,0 | 102,0 | 96,0    | 112,0 | 114,0   | 100,0 | 97,0    | 110,0 | 111,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                          | 95,5  | 96,5  | 71,0 | 97,0    | 90,5  | 94,5  | 91,5  | 93,0    | 94,0  | 72,0 | 93,5  | 92,5    | 102,0 | 103,0   | 91,0  | 92,0    | 100,0 | 101,0 | 24 |
| 26                                                                                                                                                                                                                                                                                                                          | 87,0  | 88,0  | 69,0 | 88,5    | 87,0  | 86,5  | 87,5  | 85,0    | 85,5  | 70,0 | 85,0  | 86,0    | 92,5  | 93,5    | 83,0  | 84,0    | 90,5  | 91,5  | 26 |
| 28                                                                                                                                                                                                                                                                                                                          | 80,0  | 80,5  | 67,0 | 81,5    | 82,0  | 79,5  | 80,0  | 77,5    | 78,5  | 68,0 | 78,0  | 79,0    | 84,5  | 85,5    | 76,0  | 77,0    | 82,5  | 83,5  | 28 |
| 30                                                                                                                                                                                                                                                                                                                          | 73,5  | 74,0  | 65,5 | 75,0    | 75,5  | 73,0  | 73,5  | 71,5    | 72,0  | 66,5 | 72,0  | 72,5    | 77,0  | 78,0    | 70,0  | 70,5    | 75,5  | 76,5  | 30 |
| 34                                                                                                                                                                                                                                                                                                                          | 60,5  | 61,0  | 62,0 | 62,0    | 62,5  | 61,0  | 61,5  | 60,5    | 61,0  | 62,0 | 60,5  | 61,0    | 63,0  | 64,0    | 59,5  | 60,0    | 62,5  | 63,0  | 34 |
| 38                                                                                                                                                                                                                                                                                                                          | 50,5  | 51,0  | 52,0 | 52,0    | 52,5  | 51,0  | 51,5  | 50,5    | 51,0  | 51,5 | 50,5  | 51,0    | 52,5  | 53,0    | 49,7  | 50,0    | 51,5  | 52,0  | 38 |
| 42                                                                                                                                                                                                                                                                                                                          | 43,1  | 43,5  | 44,2 | 44,3    | 44,6  | 43,3  | 43,7  | 42,6    | 43,0  | 43,8 | 42,9  | 43,3    | 44,2  | 44,7    | 41,9  | 42,3    | 43,3  | 43,8  | 42 |
| 46                                                                                                                                                                                                                                                                                                                          | 36,7  | 37,1  | 37,7 | 38,0    | 38,3  | 36,9  | 37,3  | 36,3    | 36,6  | 37,3 | 36,6  | 36,9    | 37,2  | 37,7    | 35,3  | 35,8    | 36,2  | 36,7  | 46 |
| 50                                                                                                                                                                                                                                                                                                                          | 31,3  | 31,6  | 32,2 | 32,7    | 33,0  | 31,5  | 31,8  | 30,7    | 31,1  | 31,8 | 31,0  | 31,4    | 31,3  | 31,7    | 29,8  | 30,2    | 30,2  | 30,6  | 50 |
| 54                                                                                                                                                                                                                                                                                                                          | 26,6  | 26,9  | 27,5 | 28,1    | 28,4  | 26,8  | 27,1  | 26,1    | 26,4  | 27,0 | 26,4  | 26,7    | 26,3  | 26,7    | 25,1  | 25,5    | 25,2  | 25,6  | 54 |
| 58                                                                                                                                                                                                                                                                                                                          | 22,7  | 23,0  | 23,4 | 24,2    | 24,4  | 22,9  | 23,2  | 22,1    | 22,4  | 22,9 | 22,5  | 22,7    | 22,1  | 22,4    | 21,1  | 21,5    | 21,0  | 21,3  | 58 |
| 62                                                                                                                                                                                                                                                                                                                          | 19,3  | 19,6  | 20,0 | 20,8    | 21,0  | 19,5  | 19,8  | 18,8    | 19,0  | 19,4 | 19,1  | 19,3    | 18,5  | 18,7    | 17,8  | 18,0    | 17,3  | 17,7  | 62 |
| 66                                                                                                                                                                                                                                                                                                                          | 16,4  | 16,6  | 17,0 | 17,9    | 18,1  | 16,6  | 16,8  | 15,8    | 16,1  | 16,4 | 16,2  | 16,4    | 15,3  | 15,6    | 14,8  | 15,1    | 14,2  | 14,5  | 66 |
| 68                                                                                                                                                                                                                                                                                                                          | 15,1  | 15,3  | 15,6 | 16,6    | 16,8  | 15,3  | 15,5  | 14,5    | 14,8  | 15,1 | 14,9  | 15,1    | 13,9  | 14,2    | 13,5  | 13,8    | 12,8  | 13,1  | 68 |
| 70                                                                                                                                                                                                                                                                                                                          | 13,9  | 14,1  | -    | 15,4    | 15,6  | 14,1  | 14,3  | 13,3    | 13,5  | 13,8 | 13,6  | 13,8    | 12,6  | 12,8    | 12,3  | 12,5    | 11,5  | 11,7  | 70 |
| 73                                                                                                                                                                                                                                                                                                                          | 12,2  | 12,3  | -    | 13,7    | 13,8  | 12,4  | 12,5  | 11,6    | 11,7  | 12,1 | 11,9  | 12,1    | 10,8  | 11,0    | 10,5  | 10,7    | 9,6   | 9,9   | 73 |
| 74                                                                                                                                                                                                                                                                                                                          | 11,7  | 11,8  | -    | 13,2    | 13,3  | 11,9  | 12,0  | 11,1    | 11,2  | -    | 11,4  | 11,6    | 10,2  | 10,4    | 10,0  | 10,2    | 9,1   | 9,3   | 74 |
| 77                                                                                                                                                                                                                                                                                                                          | 10,2  | 10,4  | -    | 11,7    | 11,8  | 10,4  | 10,5  | 9,6     | 9,7   | -    | 9,9   | 10,0    | 8,6   | 8,8     | 8,5   | 8,7     | 7,5   | 7,6   | 77 |
| 78                                                                                                                                                                                                                                                                                                                          | 9,8   | -     | -    | 11,3    | -     | 9,9   | 10,0  | 9,1     | 9,3   | -    | 9,4   | 9,6     | 8,1   | 8,3     | 8,1   | 8,2     | 7,0   | 7,1   | 78 |
| 79                                                                                                                                                                                                                                                                                                                          | 9,3   | -     | -    | 10,8    | -     | 9,4   | 9,6   | 8,6     | 8,8   | -    | 8,9   | 9,1     | 7,6   | 7,8     | 7,6   | 7,7     | 6,5   | 6,6   | 79 |
| 81                                                                                                                                                                                                                                                                                                                          | 8,5   | -     | -    | 10,0    | -     | 8,6   | -     | 7,8     | 7,9   | -    | 8,1   | 8,2     | 6,7   | 6,8     | 6,7   | 6,9     | 5,5   | 5,7   | 81 |
| 82                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -       | -     | 8,2   | -     | 7,4     | 7,5   | -    | 7,7   | -       | 6,3   | 6,4     | 6,3   | 6,4     | 5,1   | 5,2   | 82 |
| 83                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -       | -     | 7,8   | -     | 7,0     | -     | -    | 7,3   | -       | 5,8   | -       | 5,9   | 6,0     | 4,6   | 4,8   | 83 |
| 84                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -       | -     | -     | -     | 6,6     | -     | -    | 6,9   | -       | 5,4   | -       | 5,5   | 5,6     | 4,2   | 4,4   | 84 |
| 85                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -       | -     | -     | -     | 6,2     | -     | -    | 6,6   | -       | 5,0   | -       | 5,1   | -       | 3,8   | -     | 85 |
| 86                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -       | -     | -     | -     | 5,9     | -     | -    | 6,2   | -       | 4,6   | -       | 4,8   | -       | -     | -     | 86 |
| 89                                                                                                                                                                                                                                                                                                                          | -     | -     | -    | -       | -     | -     | -     | -       | -     | -    | -     | -       | -     | -       | 3,8   | -       | -     | -     | 89 |

45 t

85 t

125 t

165 t

185 t

205 t

225 t

0 t

30 t

50 t



# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   12 m  8,40 m  9.8 m/s 360° EN13000 </div>                                                                                            |       |       |      |       |       |       |       |       |       |       |       |       |       |      |       |       |       |       |    |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|----|
| <div>  <div> <div>90 m</div> <div>LH+LF_1</div> <div>LH+LF_3</div> <div>LH+LF_4</div> </div> <div>93 m</div> <div>LH+LF_3</div> <div>LH+LF_4</div> <div>96 m</div> <div>LH+LF_1</div> <div>LH+LF_3</div> <div>LH+LF_4</div> </div>                                                                                                                                                              |       |       |      |       |       |       |       |       |       |       |       |       |       |      |       |       |       |       |    |
| <div>  <div>12 m</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div>  </div> |       |       |      |       |       |       |       |       |       |       |       |       |       |      |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | t     | t     | t    | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t    | t     | t     | t     | t     | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 126,0 | -     | -    | 136,0 | -     | 160,0 | -     | 131,0 | -     | 156,0 | -     | 112,0 | -     | -    | 125,0 | -     | 154,0 | -     | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 124,5 | 113,0 | -    | 134,0 | 113,0 | 154,0 | 138,0 | 129,0 | 113,0 | 150,0 | 138,0 | 110,5 | 102,0 | -    | 123,0 | 114,0 | 149,0 | -     | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 123,0 | 112,0 | -    | 132,0 | 110,0 | 148,0 | 135,0 | 127,0 | 111,0 | 145,0 | 136,0 | 109,0 | 101,0 | -    | 121,0 | 111,0 | 143,0 | 136,0 | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 120,5 | 110,5 | 80,5 | 127,0 | 108,0 | 143,0 | 132,0 | 123,5 | 108,5 | 140,0 | 133,0 | 108,0 | 99,7  | 81,0 | 119,0 | 109,0 | 138,0 | 133,0 | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 118,0 | 109,0 | 79,5 | 122,0 | 106,0 | 135,0 | 129,0 | 120,0 | 106,0 | 133,0 | 130,0 | 107,0 | 98,5  | 80,0 | 117,0 | 107,0 | 130,0 | 130,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 109,0 | 106,0 | 77,0 | 110,0 | 101,0 | 121,0 | 122,0 | 107,0 | 102,0 | 118,0 | 120,0 | 104,0 | 96,0  | 77,5 | 106,0 | 103,0 | 116,0 | 118,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 98,5  | 99,5  | 75,0 | 99,5  | 97,5  | 108,0 | 110,0 | 97,0  | 98,0  | 106,0 | 107,0 | 95,0  | 93,5  | 75,5 | 95,5  | 96,5  | 104,0 | 105,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 89,5  | 90,0  | 73,0 | 90,5  | 91,5  | 98,0  | 99,5  | 88,0  | 89,0  | 96,0  | 97,0  | 86,5  | 87,5  | 73,5 | 87,0  | 88,0  | 94,0  | 95,5  | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 81,5  | 82,5  | 71,0 | 82,5  | 83,5  | 89,0  | 90,0  | 80,5  | 81,0  | 87,0  | 88,0  | 78,5  | 79,5  | 71,5 | 79,0  | 80,0  | 85,5  | 86,5  | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 74,5  | 75,5  | 69,0 | 75,5  | 76,5  | 81,0  | 82,0  | 73,5  | 74,5  | 79,5  | 80,5  | 72,0  | 73,0  | 70,0 | 72,5  | 73,5  | 77,5  | 79,0  | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 68,5  | 69,0  | 67,5 | 69,5  | 70,0  | 74,5  | 75,0  | 67,5  | 68,5  | 72,5  | 73,5  | 66,0  | 67,0  | 68,0 | 66,5  | 67,5  | 71,0  | 72,0  | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 58,0  | 59,0  | 60,0 | 59,5  | 60,0  | 61,5  | 62,5  | 57,5  | 58,0  | 61,0  | 61,5  | 56,0  | 56,5  | 58,0 | 56,5  | 57,0  | 59,5  | 60,5  | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 49,1  | 49,7  | 50,5 | 49,9  | 50,0  | 51,0  | 51,5  | 48,9  | 49,5  | 50,0  | 51,0  | 48,1  | 48,7  | 49,8 | 48,6  | 49,1  | 49,6  | 50,0  | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 41,2  | 41,7  | 42,5 | 42,1  | 42,5  | 42,7  | 43,3  | 41,0  | 41,5  | 41,7  | 42,3  | 40,4  | 40,8  | 41,7 | 40,7  | 41,2  | 40,8  | 41,5  | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 34,6  | 35,1  | 35,9 | 35,6  | 36,0  | 35,5  | 36,0  | 34,4  | 34,8  | 34,4  | 35,0  | 33,6  | 34,1  | 35,0 | 34,0  | 34,4  | 33,5  | 34,1  | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 29,0  | 29,5  | 30,2 | 30,0  | 30,4  | 29,5  | 29,9  | 28,8  | 29,2  | 28,4  | 28,9  | 28,0  | 28,4  | 29,2 | 28,4  | 28,8  | 27,5  | 28,0  | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 24,4  | 24,7  | 25,4 | 25,4  | 25,7  | 24,5  | 24,9  | 24,1  | 24,5  | 23,4  | 23,8  | 23,3  | 23,7  | 24,4 | 23,7  | 24,1  | 22,5  | 22,9  | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20,4  | 20,7  | 21,3 | 21,4  | 21,7  | 20,2  | 20,6  | 20,1  | 20,4  | 19,1  | 19,5  | 19,3  | 19,7  | 20,3 | 19,7  | 20,0  | 18,2  | 18,6  | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 17,0  | 17,3  | 17,8 | 18,0  | 18,3  | 16,6  | 16,9  | 16,7  | 17,0  | 15,5  | 15,8  | 15,9  | 16,2  | 16,8 | 16,3  | 16,6  | 14,6  | 14,9  | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 14,1  | 14,3  | 14,8 | 15,1  | 15,3  | 13,5  | 13,7  | 13,8  | 14,0  | 12,3  | 12,6  | 13,0  | 13,2  | 13,7 | 13,3  | 13,6  | 11,4  | 11,7  | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 11,5  | 11,8  | 12,1 | 12,5  | 12,7  | 10,7  | 11,0  | 11,2  | 11,4  | 9,6   | 9,9   | 10,4  | 10,6  | 11,1 | 10,8  | 11,0  | 8,6   | 8,9   | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9,3   | 9,5   | 9,8  | 10,3  | 10,5  | 8,3   | 8,5   | 9,0   | 9,2   | 7,2   | 7,4   | 8,1   | 8,4   | 8,7  | 8,5   | 8,7   | 6,2   | 6,5   | 74 |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7,8   | 8,0   | 8,2  | 8,8   | 9,0   | 6,7   | 6,9   | 7,5   | 7,6   | 5,5   | 5,7   | 6,6   | 6,8   | 7,1  | 7,0   | 7,2   | 4,6   | 4,8   | 77 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 7,3   | 7,5   | -    | 8,3   | 8,5   | 6,2   | 6,4   | 7,0   | 7,1   | 5,0   | 5,2   | 6,2   | 6,3   | 6,7  | 6,5   | 6,7   | 4,1   | 4,3   | 78 |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6,9   | 7,0   | -    | 7,8   | 8,0   | 5,7   | 5,9   | 6,5   | 6,7   | 4,5   | 4,7   | 5,7   | 5,8   | 6,2  | 6,0   | 6,2   | 3,6   | 3,8   | 79 |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 6,0   | 6,1   | -    | 7,0   | 7,1   | 4,7   | 4,9   | 5,6   | 5,8   | 3,6   | 3,8   | 4,8   | 5,0   | 5,3  | 5,2   | 5,3   | -     | -     | 81 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5,6   | 5,7   | -    | 6,6   | 6,7   | 4,3   | 4,5   | 5,2   | 5,4   | -     | -     | 4,4   | 4,6   | -    | 4,8   | 4,9   | -     | -     | 82 |
| 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 5,2   | 5,3   | -    | 6,2   | 6,3   | 3,9   | 4,0   | 4,8   | 5,0   | -     | -     | 4,0   | 4,1   | -    | 4,4   | 4,5   | -     | -     | 83 |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4,8   | 4,9   | -    | 5,8   | 5,9   | -     | 3,6   | 4,4   | 4,6   | -     | -     | 3,6   | 3,7   | -    | 4,0   | 4,1   | -     | -     | 84 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4,4   | 4,5   | -    | 5,4   | 5,5   | -     | -     | 4,0   | 4,2   | -     | -     | -     | -     | -    | 3,6   | 3,7   | -     | -     | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 4,0   | 4,1   | -    | 5,0   | 5,1   | -     | -     | 3,6   | 3,8   | -     | -     | -     | -     | -    | -     | -     | -     | -     | 86 |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3,7   | 3,8   | -    | 4,6   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -     | 87 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | -     | -     | -    | 3,7   | -     | -     | -     | -     | -     | -     | -     | -     | -     | -    | -     | -     | -     | -     | 90 |

45 t

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# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   12 m  8,40 m  9.8 m/s 360° EN13000 </div> |       |       |       |       |       |      |      |       |       |       |       |       |       |       |       |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|----|
| <div>  99 m 102 m 105 m </div>                                                                                                                                                                                                                                                                       |       |       |       |       |       |      |      |       |       |       |       |       |       |       |       |    |
| <div>  15° 20° 15° 20° 15° 20° 30° 15° 20° 15° 20° 15° 20° 15° 20°  </div>                                                                                                                                        |       |       |       |       |       |      |      |       |       |       |       |       |       |       |       |    |
| m                                                                                                                                                                                                                                                                                                                                                                                     | t     | t     | t     | t     | t     | t    | t    | t     | t     | t     | t     | t     | t     | t     | t     | m  |
| 15                                                                                                                                                                                                                                                                                                                                                                                    | 118,0 | -     | 145,0 | -     | 103,0 | -    | -    | 115,0 | -     | 140,0 | -     | 110,0 | -     | 129,0 | -     | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                    | 116,0 | 112,0 | 139,0 | 136,0 | 102,0 | 94,0 | -    | 113,0 | 110,0 | 135,0 | 133,0 | 108,0 | 106,0 | 127,0 | 117,0 | 16 |
| 18                                                                                                                                                                                                                                                                                                                                                                                    | 112,0 | 107,0 | 128,0 | 126,0 | 99,5  | 91,5 | 76,0 | 111,0 | 108,0 | 125,0 | 124,0 | 106,0 | 104,0 | 123,0 | 113,0 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                    | 103,0 | 103,0 | 114,0 | 115,0 | 97,0  | 88,5 | 74,0 | 101,0 | 102,0 | 112,0 | 113,0 | 99,5  | 100,0 | 112,0 | 110,0 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                    | 93,0  | 94,5  | 102,0 | 103,0 | 91,5  | 86,0 | 72,5 | 91,5  | 92,5  | 100,0 | 102,0 | 89,5  | 90,5  | 100,0 | 102,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                    | 84,5  | 85,5  | 92,0  | 93,5  | 83,0  | 83,5 | 70,5 | 83,0  | 84,0  | 90,5  | 92,0  | 81,0  | 82,0  | 91,0  | 92,0  | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                    | 77,0  | 78,0  | 83,5  | 84,5  | 75,5  | 76,5 | 68,5 | 75,5  | 76,5  | 82,0  | 83,0  | 74,0  | 75,0  | 82,5  | 83,5  | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                    | 70,5  | 71,0  | 76,0  | 77,0  | 69,0  | 69,5 | 66,5 | 69,0  | 70,0  | 74,5  | 75,5  | 67,5  | 68,5  | 75,0  | 76,0  | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                    | 64,5  | 65,5  | 69,0  | 70,0  | 63,0  | 64,0 | 65,0 | 63,0  | 64,0  | 68,0  | 69,0  | 61,5  | 62,5  | 68,5  | 69,5  | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                    | 54,5  | 55,5  | 58,0  | 59,0  | 53,5  | 54,0 | 55,5 | 53,5  | 54,0  | 56,5  | 57,5  | 52,0  | 52,5  | 57,5  | 58,5  | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                    | 46,8  | 47,4  | 48,7  | 49,4  | 45,5  | 46,2 | 47,3 | 45,6  | 46,2  | 47,9  | 48,6  | 44,3  | 44,9  | 48,9  | 49,6  | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                    | 39,5  | 40,1  | 39,7  | 40,4  | 38,8  | 39,4 | 40,5 | 38,8  | 39,4  | 39,0  | 39,8  | 37,7  | 38,3  | 40,2  | 40,9  | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                    | 32,7  | 33,2  | 32,4  | 33,0  | 31,9  | 32,5 | 33,5 | 32,0  | 32,5  | 31,7  | 32,4  | 31,1  | 31,7  | 32,9  | 33,5  | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                    | 27,1  | 27,5  | 26,4  | 27,0  | 26,3  | 26,8 | 27,7 | 26,4  | 26,8  | 25,7  | 26,3  | 25,5  | 26,0  | 26,9  | 27,4  | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                    | 22,4  | 22,8  | 21,4  | 21,9  | 21,6  | 22,0 | 22,8 | 21,7  | 22,1  | 20,7  | 21,2  | 20,8  | 21,2  | 21,9  | 22,4  | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                    | 18,4  | 18,8  | 17,1  | 17,5  | 17,6  | 18,0 | 18,7 | 17,7  | 18,0  | 16,4  | 16,8  | 16,8  | 17,2  | 17,6  | 18,0  | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                    | 15,0  | 15,3  | 13,4  | 13,8  | 14,2  | 14,5 | 15,1 | 14,2  | 14,6  | 12,7  | 13,1  | 13,3  | 13,7  | 13,9  | 14,3  | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                    | 12,0  | 12,3  | 10,3  | 10,6  | 11,2  | 11,5 | 12,1 | 11,3  | 11,6  | 9,5   | 9,9   | 10,4  | 10,7  | 10,7  | 11,1  | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                    | 9,4   | 9,7   | 7,5   | 7,8   | 8,7   | 8,9  | 9,4  | 8,7   | 9,0   | 6,7   | 7,1   | 7,8   | 8,1   | 8,0   | 8,3   | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                    | 7,2   | 7,4   | 5,1   | 5,3   | 6,4   | 6,6  | 7,0  | 6,4   | 6,6   | 4,3   | 4,6   | 5,5   | 5,7   | 5,5   | 5,8   | 74 |
| 75                                                                                                                                                                                                                                                                                                                                                                                    | 6,6   | 6,9   | 4,5   | 4,7   | 5,9   | 6,1  | 6,5  | 5,9   | 6,1   | 3,7   | 4,0   | 4,9   | 5,2   | 4,9   | 5,2   | 75 |
| 76                                                                                                                                                                                                                                                                                                                                                                                    | 6,1   | 6,4   | 3,9   | 4,2   | 5,4   | 5,6  | 6,0  | 5,4   | 5,6   | -     | -     | 4,4   | 4,7   | 4,4   | 4,7   | 76 |
| 77                                                                                                                                                                                                                                                                                                                                                                                    | 5,6   | 5,9   | -     | 3,7   | 4,9   | 5,1  | 5,5  | 4,9   | 5,1   | -     | -     | 3,9   | 4,2   | 3,9   | 4,1   | 77 |
| 78                                                                                                                                                                                                                                                                                                                                                                                    | 5,1   | 5,4   | -     | -     | 4,4   | 4,6  | 5,0  | 4,4   | 4,6   | -     | -     | -     | 3,7   | -     | 3,6   | 78 |
| 79                                                                                                                                                                                                                                                                                                                                                                                    | 4,6   | 4,9   | -     | -     | 3,9   | 4,1  | 4,5  | 3,9   | 4,1   | -     | -     | -     | -     | -     | -     | 79 |
| 80                                                                                                                                                                                                                                                                                                                                                                                    | 4,2   | 4,4   | -     | -     | -     | 3,7  | 4,0  | -     | 3,7   | -     | -     | -     | -     | -     | -     | 80 |
| 81                                                                                                                                                                                                                                                                                                                                                                                    | 3,8   | 3,9   | -     | -     | -     | -    | 3,5  | -     | -     | -     | -     | -     | -     | -     | -     | 81 |
| 82                                                                                                                                                                                                                                                                                                                                                                                    | -     | 3,5   | -     | -     | -     | -    | -    | -     | -     | -     | -     | -     | -     | -     | -     | 82 |


45 t
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225 t


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# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|   12 m  8,40 m  9.8 m/s 360° EN13000 |      |      |      |       |       |       |       |      |      |      |      |      |    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|-------|-------|-------|-------|------|------|------|------|------|----|
|                                                                                                                     |      |      |      |       |       |       |       |      |      |      |      |      |    |
| 108 m 111 m 114 m                                                                                                                                                                                                                                                                                                                                                        |      |      |      |       |       |       |       |      |      |      |      |      |    |
| LH+LF_1 LH+LF_3 LH+LF_4 LH+LF_3 LH+LF_1                                                                                                                                                                                                                                                                                                                                  |      |      |      |       |       |       |       |      |      |      |      |      |    |
| 12 m                                                                                                                                                                                                                                                                                                                                                                     |      |      |      |       |       |       |       |      |      |      |      |      |    |
| 15° 20° 30° 15° 20° 15° 20° 15° 20° 15° 20° 30°                                                                                                                                                                                                                                                                                                                          |      |      |      |       |       |       |       |      |      |      |      |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                        | t    | t    | t    | t     | t     | t     | t     | t    | t    | t    | t    | t    | m  |
| 15                                                                                                                                                                                                                                                                                                                                                                       | 96,5 | -    | -    | 105,0 | -     | 124,0 | -     | -    | -    | -    | -    | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                       | 95,5 | 88,0 | -    | 104,0 | 101,0 | 122,0 | -     | 99,5 | -    | 89,0 | -    | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                       | 94,2 | 86,7 | -    | 103,0 | 100,2 | 120,0 | 113,0 | 98,2 | 96,5 | 87,7 | 84,0 | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                       | 93,0 | 85,5 | 71,5 | 102,0 | 99,5  | 118,0 | 111,0 | 97,0 | 95,5 | 86,5 | 83,0 | -    | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                       | 91,7 | 84,5 | 70,7 | 99,7  | 98,5  | 116,0 | 110,0 | 95,7 | 94,7 | 85,5 | 82,0 | 69,0 | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                       | 90,5 | 83,5 | 70,0 | 97,5  | 97,5  | 110,0 | 108,0 | 94,5 | 94,0 | 84,5 | 81,0 | 68,5 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                       | 88,0 | 81,0 | 68,0 | 87,5  | 89,0  | 99,0  | 100,0 | 86,0 | 87,0 | 82,0 | 79,0 | 67,0 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                       | 79,5 | 78,5 | 66,0 | 79,5  | 80,5  | 89,5  | 90,5  | 77,5 | 78,5 | 76,0 | 77,0 | 65,5 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                       | 72,0 | 73,0 | 64,5 | 72,0  | 73,0  | 81,0  | 82,0  | 70,5 | 71,5 | 69,0 | 70,0 | 64,0 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                       | 66,0 | 67,0 | 62,5 | 66,0  | 66,5  | 73,5  | 74,5  | 64,0 | 65,0 | 63,0 | 63,5 | 62,5 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                       | 60,0 | 61,0 | 61,0 | 60,0  | 61,0  | 67,0  | 68,0  | 58,5 | 59,5 | 57,5 | 58,0 | 60,0 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                       | 50,5 | 51,5 | 53,0 | 50,5  | 51,5  | 56,5  | 57,0  | 49,4 | 50,0 | 48,1 | 48,9 | 50,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                       | 43,1 | 43,7 | 45,0 | 42,9  | 43,6  | 47,7  | 48,5  | 41,6 | 42,3 | 40,5 | 41,2 | 42,5 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                       | 36,6 | 37,2 | 38,3 | 36,5  | 37,1  | 39,5  | 40,2  | 35,2 | 35,8 | 34,1 | 34,7 | 35,9 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                       | 30,4 | 31,0 | 32,0 | 30,3  | 30,9  | 32,2  | 32,8  | 29,4 | 30,0 | 28,7 | 29,3 | 30,3 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                       | 24,7 | 25,3 | 26,2 | 24,6  | 25,1  | 26,2  | 26,7  | 23,8 | 24,3 | 23,0 | 23,6 | 24,6 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                       | 20,0 | 20,5 | 21,3 | 19,9  | 20,4  | 21,1  | 21,6  | 19,0 | 19,5 | 18,3 | 18,8 | 19,7 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                       | 16,0 | 16,4 | 17,2 | 15,9  | 16,3  | 16,8  | 17,3  | 15,0 | 15,4 | 14,3 | 14,7 | 15,5 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                       | 12,6 | 13,0 | 13,6 | 12,4  | 12,8  | 13,1  | 13,6  | 11,5 | 11,9 | 10,8 | 11,2 | 11,9 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                       | 9,6  | 9,9  | 10,5 | 9,5   | 9,8   | 10,0  | 10,3  | 8,5  | 8,9  | 7,8  | 8,2  | 8,8  | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                       | 7,0  | 7,3  | 7,8  | 6,9   | 7,2   | 7,2   | 7,5   | 5,9  | 6,2  | 5,2  | 5,5  | 6,1  | 70 |
| 72                                                                                                                                                                                                                                                                                                                                                                       | 5,8  | 6,1  | 6,6  | 5,7   | 6,0   | 5,9   | 6,2   | 4,7  | 5,0  | 4,0  | 4,3  | 4,9  | 72 |
| 73                                                                                                                                                                                                                                                                                                                                                                       | 5,2  | 5,5  | 6,0  | 5,1   | 5,4   | 5,3   | 5,6   | 4,1  | 4,4  | -    | 3,7  | 4,3  | 73 |
| 74                                                                                                                                                                                                                                                                                                                                                                       | 4,7  | 5,0  | 5,4  | 4,6   | 4,8   | 4,7   | 5,0   | 3,6  | 3,9  | -    | -    | 3,7  | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                       | 3,7  | 3,9  | 4,3  | 3,5   | 3,8   | 3,6   | 3,9   | -    | -    | -    | -    | -    | 76 |
| 77                                                                                                                                                                                                                                                                                                                                                                       | -    | -    | 3,8  | -     | -     | -     | -     | -    | -    | -    | -    | -    | 77 |


45 t
85 t
125 t
165 t
185 t
205 t
225 t


0 t
30 t
50 t

# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  +  18 m  8,40 m  9.8 m/s           360°           EN13000 |       |      |       |      |       |      |       |      |       |      |       |      |    |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|----|
| 84 m   87 m   90 m   93 m   96 m   99 m<br>LH+LF_4<br>18 m<br>15°   20°   15°   20°   15°   20°   15°   20°   15°   20°   15°   20°                                                                                                                                                                                                                                                            |       |      |       |      |       |      |       |      |       |      |       |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                              | t     | t    | t     | t    | t     | t    | t     | t    | t     | t    | t     | t    | m  |
| 15                                                                                                                                                                                                                                                                                                                                                                                             | 126,0 | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                             | 123,0 | -    | 123,0 | -    | 124,0 | -    | 124,0 | -    | 125,0 | -    | -     | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                             | 119,0 | 92,0 | 120,0 | 92,5 | 121,0 | -    | 121,0 | -    | 122,0 | -    | 121,0 | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                             | 116,0 | 90,0 | 117,0 | 90,5 | 118,0 | 90,5 | 118,0 | 91,0 | 119,0 | 91,5 | 117,0 | 91,5 | 18 |
| 20                                                                                                                                                                                                                                                                                                                                                                                             | 110,0 | 86,5 | 111,0 | 87,0 | 112,0 | 87,0 | 113,0 | 87,5 | 113,0 | 88,0 | 110,0 | 88,5 | 20 |
| 22                                                                                                                                                                                                                                                                                                                                                                                             | 105,0 | 83,0 | 106,0 | 83,5 | 107,0 | 84,0 | 106,0 | 84,5 | 104,0 | 85,0 | 102,0 | 85,5 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                             | 100,0 | 80,0 | 100,0 | 80,5 | 98,5  | 81,0 | 96,5  | 81,5 | 94,5  | 82,0 | 92,5  | 82,5 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                             | 93,0  | 77,5 | 91,0  | 78,0 | 89,5  | 78,5 | 87,5  | 79,0 | 86,0  | 79,0 | 84,0  | 79,5 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                             | 85,0  | 75,0 | 83,0  | 75,5 | 82,0  | 76,0 | 80,0  | 76,0 | 78,5  | 76,0 | 76,5  | 76,0 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                             | 78,0  | 72,5 | 76,5  | 73,0 | 75,0  | 73,5 | 73,0  | 73,5 | 71,5  | 73,0 | 70,0  | 71,5 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                             | 65,0  | 66,0 | 64,5  | 65,5 | 63,5  | 64,5 | 62,0  | 63,0 | 60,5  | 61,5 | 59,0  | 60,0 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                             | 54,0  | 55,0 | 53,5  | 54,5 | 53,0  | 54,0 | 52,0  | 53,0 | 51,5  | 52,5 | 50,0  | 51,0 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                             | 45,9  | 46,6 | 45,1  | 45,8 | 44,5  | 45,3 | 43,7  | 44,6 | 43,0  | 43,9 | 42,1  | 43,1 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                             | 39,0  | 39,7 | 38,1  | 38,9 | 37,4  | 38,2 | 36,4  | 37,3 | 35,6  | 36,5 | 34,6  | 35,5 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                             | 33,0  | 33,7 | 32,0  | 32,7 | 31,3  | 32,0 | 30,3  | 31,1 | 29,5  | 30,3 | 28,5  | 29,3 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                             | 27,9  | 28,5 | 26,9  | 27,5 | 26,2  | 26,9 | 25,2  | 25,9 | 24,4  | 25,1 | 23,3  | 24,1 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                             | 23,6  | 24,1 | 22,6  | 23,1 | 21,9  | 22,5 | 20,9  | 21,5 | 20,0  | 20,6 | 19,0  | 19,6 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                             | 19,9  | 20,4 | 18,9  | 19,4 | 18,2  | 18,7 | 17,1  | 17,7 | 16,3  | 16,8 | 15,2  | 15,8 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                             | 16,7  | 17,1 | 15,7  | 16,1 | 14,9  | 15,4 | 13,9  | 14,4 | 13,0  | 13,5 | 11,9  | 12,5 | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                             | 13,9  | 14,3 | 12,8  | 13,2 | 12,1  | 12,5 | 11,1  | 11,5 | 10,2  | 10,6 | 9,1   | 9,6  | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                             | 11,4  | 11,7 | 10,4  | 10,7 | 9,6   | 10,0 | 8,6   | 8,9  | 7,7   | 8,1  | 6,6   | 7,0  | 74 |
| 78                                                                                                                                                                                                                                                                                                                                                                                             | 9,2   | 9,5  | 8,2   | 8,5  | 7,4   | 7,7  | 6,4   | 6,7  | 5,5   | 5,8  | 4,3   | 4,7  | 78 |
| 79                                                                                                                                                                                                                                                                                                                                                                                             | 8,7   | 9,0  | 7,7   | 8,0  | 6,9   | 7,2  | 5,8   | 6,2  | 4,9   | 5,3  | 3,8   | 4,2  | 79 |
| 80                                                                                                                                                                                                                                                                                                                                                                                             | 8,2   | 8,5  | 7,2   | 7,5  | 6,4   | 6,7  | 5,3   | 5,7  | 4,4   | 4,8  | -     | 3,7  | 80 |
| 81                                                                                                                                                                                                                                                                                                                                                                                             | 7,7   | 8,0  | 6,7   | 7,0  | 5,9   | 6,2  | 4,8   | 5,2  | 3,9   | 4,3  | -     | -    | 81 |
| 82                                                                                                                                                                                                                                                                                                                                                                                             | 7,3   | 7,5  | 6,2   | 6,5  | 5,5   | 5,7  | 4,4   | 4,7  | -     | 3,8  | -     | -    | 82 |
| 83                                                                                                                                                                                                                                                                                                                                                                                             | 6,8   | 7,0  | 5,8   | 6,0  | 5,0   | 5,2  | 3,9   | 4,2  | -     | -    | -     | -    | 83 |
| 84                                                                                                                                                                                                                                                                                                                                                                                             | 6,4   | 6,6  | 5,3   | 5,5  | 4,6   | 4,8  | -     | 3,8  | -     | -    | -     | -    | 84 |
| 86                                                                                                                                                                                                                                                                                                                                                                                             | 5,6   | 5,7  | 4,5   | 4,7  | 3,7   | 3,9  | -     | -    | -     | -    | -     | -    | 86 |
| 87                                                                                                                                                                                                                                                                                                                                                                                             | 5,2   | 5,3  | 4,1   | 4,2  | -     | 3,5  | -     | -    | -     | -    | -     | -    | 87 |
| 88                                                                                                                                                                                                                                                                                                                                                                                             | 4,8   | 4,9  | 3,7   | 3,8  | -     | -    | -     | -    | -     | -    | -     | -    | 88 |
| 90                                                                                                                                                                                                                                                                                                                                                                                             | 4,0   | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                             | 3,6   | -    | -     | -    | -     | -    | -     | -    | -     | -    | -     | -    | 91 |

| 45 t              | 85 t | 125 t | 165 t | 185 t | 205 t | 225 t |
|-------------------|------|-------|-------|-------|-------|-------|
| 0 t   30 t   50 t |      |       |       |       |       |       |

# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   24 m  8,40 m  9.8 m/s 360° EN13000 </div> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| <div>  48 m 54 m 60 m 66 m 72 m 78 m  </div>                                                                                                                                                                      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| LH+LF_1                                                                                                                                                                                                                                                                                                                                                                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 24 m                                                                                                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| <div>  15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°  </div>                                                                                                                            |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                     | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | m  |
| 14                                                                                                                                                                                                                                                                                                                                                                                    | 86,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 14 |
| 15                                                                                                                                                                                                                                                                                                                                                                                    | 83,2 | -    | -    | 85,0 | -    | -    | 86,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15 |
| 16                                                                                                                                                                                                                                                                                                                                                                                    | 80,0 | 63,5 | -    | 82,0 | -    | -    | 83,5 | -    | -    | 84,5 | -    | -    | 85,0 | -    | -    | -    | -    | -    | 16 |
| 17                                                                                                                                                                                                                                                                                                                                                                                    | 77,0 | 61,5 | -    | 79,0 | 62,5 | -    | 80,7 | 63,5 | -    | 82,0 | -    | -    | 82,5 | -    | -    | 80,5 | -    | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                    | 74,0 | 59,5 | -    | 76,0 | 60,5 | -    | 78,0 | 61,5 | -    | 79,5 | 62,5 | -    | 80,0 | 63,0 | -    | 79,0 | -    | -    | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                                    | 71,5 | 57,7 | -    | 73,7 | 59,0 | -    | 75,7 | 60,0 | -    | 77,2 | 61,0 | -    | 78,0 | 61,5 | -    | 77,2 | 62,0 | -    | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                                    | 69,0 | 56,0 | 38,3 | 71,5 | 57,5 | 38,5 | 73,5 | 58,5 | -    | 75,0 | 59,5 | -    | 76,0 | 60,0 | -    | 75,5 | 60,5 | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                    | 66,7 | 54,5 | 37,5 | 69,2 | 56,0 | 37,7 | 71,2 | 57,0 | 38,0 | 73,0 | 58,0 | 38,1 | 74,0 | 58,7 | -    | 73,7 | 59,2 | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                    | 64,5 | 53,0 | 36,7 | 67,0 | 54,5 | 37,0 | 69,0 | 55,5 | 37,2 | 71,0 | 56,5 | 37,4 | 72,0 | 57,5 | 37,5 | 72,0 | 58,0 | 37,6 | 22 |
| 24                                                                                                                                                                                                                                                                                                                                                                                    | 61,0 | 50,0 | 35,2 | 63,0 | 51,5 | 35,6 | 65,0 | 53,0 | 35,9 | 67,0 | 54,0 | 36,1 | 69,0 | 55,0 | 36,3 | 69,0 | 55,5 | 36,4 | 24 |
| 26                                                                                                                                                                                                                                                                                                                                                                                    | 57,5 | 47,8 | 33,7 | 59,5 | 49,3 | 34,3 | 62,0 | 50,5 | 34,7 | 64,0 | 51,5 | 35,0 | 65,5 | 52,5 | 35,2 | 66,0 | 53,5 | 35,4 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                    | 54,5 | 45,5 | 32,4 | 56,5 | 47,0 | 33,1 | 58,5 | 48,4 | 33,5 | 60,5 | 49,6 | 33,9 | 62,5 | 50,5 | 34,1 | 63,0 | 51,5 | 34,4 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                    | 51,5 | 43,5 | 31,2 | 54,0 | 45,0 | 31,9 | 56,0 | 46,4 | 32,4 | 58,0 | 47,6 | 32,8 | 59,5 | 48,8 | 33,1 | 60,5 | 49,8 | 33,4 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                    | 47,0 | 39,9 | 29,1 | 49,2 | 41,4 | 29,8 | 51,0 | 42,8 | 30,5 | 53,0 | 44,1 | 30,9 | 55,0 | 45,3 | 31,3 | 56,0 | 46,4 | 31,7 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                    | 43,1 | 36,9 | 27,3 | 45,2 | 38,4 | 28,1 | 47,2 | 39,8 | 28,7 | 49,1 | 41,1 | 29,3 | 50,5 | 42,3 | 29,7 | 51,5 | 43,4 | 30,1 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                    | 39,8 | 34,4 | 25,8 | 41,8 | 35,8 | 26,5 | 43,7 | 37,2 | 27,2 | 45,6 | 38,5 | 27,8 | 47,3 | 39,6 | 28,3 | 46,2 | 40,7 | 28,7 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                    | 37,0 | 32,2 | 24,5 | 38,9 | 33,6 | 25,2 | 40,8 | 34,9 | 25,9 | 41,7 | 36,2 | 26,5 | 40,9 | 37,4 | 27,1 | 39,7 | 38,4 | 27,5 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                    | 34,6 | 30,3 | 23,4 | 36,4 | 31,7 | 24,1 | 37,7 | 33,0 | 24,7 | 36,4 | 34,2 | 25,3 | 35,6 | 35,3 | 25,9 | 34,3 | 34,9 | 26,4 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                    | 32,6 | 28,8 | 22,5 | 34,3 | 30,1 | 23,1 | 33,2 | 31,3 | 23,7 | 32,0 | 32,4 | 24,3 | 31,1 | 31,6 | 24,9 | 29,7 | 30,4 | 25,4 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                    | 30,8 | 27,5 | 21,8 | 30,7 | 28,6 | 22,3 | 29,5 | 29,8 | 22,9 | 28,2 | 28,6 | 23,5 | 27,2 | 27,7 | 24,0 | 25,6 | 26,2 | 24,5 | 58 |
| 59                                                                                                                                                                                                                                                                                                                                                                                    | 30,4 | 27,2 | 21,6 | 29,9 | 28,3 | 22,1 | 28,6 | 28,9 | 22,7 | 27,3 | 27,7 | 23,3 | 26,3 | 26,8 | 23,8 | 24,7 | 25,3 | 24,3 | 59 |
| 62                                                                                                                                                                                                                                                                                                                                                                                    | 28,6 | 26,4 | -    | 27,5 | 27,4 | 21,7 | 26,2 | 26,5 | 22,2 | 24,8 | 25,2 | 22,7 | 23,7 | 24,1 | 23,2 | 22,1 | 22,6 | 23,6 | 62 |
| 63                                                                                                                                                                                                                                                                                                                                                                                    | 27,9 | 26,1 | -    | 26,8 | 26,7 | 21,5 | 25,4 | 25,7 | 22,0 | 24,0 | 24,4 | 22,5 | 22,9 | 23,3 | 23,0 | 21,3 | 21,8 | 22,7 | 63 |
| 64                                                                                                                                                                                                                                                                                                                                                                                    | 27,2 | 25,9 | -    | 26,1 | 26,1 | -    | 24,7 | 25,0 | 21,9 | 23,2 | 23,6 | 22,3 | 22,1 | 22,5 | 22,8 | 20,6 | 21,0 | 21,9 | 64 |
| 66                                                                                                                                                                                                                                                                                                                                                                                    | 25,9 | -    | -    | 24,7 | 24,9 | -    | 23,3 | 23,6 | 21,6 | 21,7 | 22,1 | 22,0 | 20,6 | 21,0 | 21,7 | 19,1 | 19,5 | 20,3 | 66 |
| 67                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | 24,0 | 24,2 | -    | 22,6 | 22,9 | 21,5 | 21,0 | 21,4 | 21,4 | 19,9 | 20,3 | 21,0 | 18,4 | 18,8 | 19,6 | 67 |
| 69                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | 22,7 | 22,9 | -    | 21,3 | 21,5 | -    | 19,7 | 20,0 | 20,4 | 18,6 | 18,9 | 19,6 | 17,0 | 17,4 | 18,2 | 69 |
| 70                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | 22,1 | -    | -    | 20,7 | 20,9 | -    | 19,1 | 19,4 | 19,9 | 18,0 | 18,3 | 18,9 | 16,4 | 16,8 | 17,5 | 70 |
| 72                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | 21,0 | -    | -    | 19,5 | 19,7 | -    | 17,9 | 18,2 | 18,6 | 16,8 | 17,1 | 17,6 | 15,2 | 15,6 | 16,2 | 72 |
| 74                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | 18,4 | 18,5 | -    | 16,8 | 17,0 | -    | 15,7 | 15,9 | 16,4 | 14,1 | 14,4 | 15,0 | 74 |
| 76                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | 17,3 | -    | -    | 15,7 | 15,9 | -    | 14,6 | 14,8 | 15,3 | 13,0 | 13,3 | 13,9 | 76 |
| 77                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | 16,8 | -    | -    | 15,2 | 15,4 | -    | 14,1 | 14,3 | -    | 12,5 | 12,8 | 13,3 | 77 |
| 78                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 14,7 | 14,9 | -    | 13,6 | 13,8 | -    | 12,0 | 12,3 | 12,8 | 78 |
| 79                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 14,2 | 14,4 | -    | 13,1 | 13,3 | -    | 11,5 | 11,8 | 12,3 | 79 |
| 80                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 13,8 | -    | -    | 12,6 | 12,8 | -    | 11,0 | 11,3 | 11,8 | 80 |
| 82                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 12,9 | -    | -    | 11,7 | 11,9 | -    | 10,1 | 10,4 | -    | 82 |
| 84                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 10,9 | 11,1 | -    | 9,2  | 9,5  | -    | 84 |
| 86                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 10,1 | -    | -    | 8,4  | 8,7  | -    | 86 |
| 87                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 9,7  | -    | -    | 8,0  | 8,3  | -    | 87 |
| 89                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 7,2  | 7,5  | -    | 89 |
| 90                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 6,9  | -    | -    | 90 |
| 92                                                                                                                                                                                                                                                                                                                                                                                    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 6,2  | -    | -    | 92 |


45 t
85 t
125 t
165 t
185 t
205 t
225 t


0 t
30 t
50 t

# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>   24 m  8,40 m  9.8 m/s 360° EN13000 </div> |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
| <div>  84 m 90 m 96 m 102 m 108 m  </div>                                                                                                                                                                         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| LH+LF_1                                                                                                                                                                                                                                                                                                                                                                               |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| 24 m                                                                                                                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| <div>  15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°  </div>                                                                                                                                        |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
| m                                                                                                                                                                                                                                                                                                                                                                                     | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | m  |
| 17                                                                                                                                                                                                                                                                                                                                                                                    | 80,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 17 |
| 18                                                                                                                                                                                                                                                                                                                                                                                    | 79,0 | -    | -    | 74,0 | -    | -    | 67,0 | -    | -    | -    | -    | -    | -    | -    | -    | 18 |
| 19                                                                                                                                                                                                                                                                                                                                                                                    | 78,0 | 62,0 | -    | 73,0 | -    | -    | 66,2 | -    | -    | 62,0 | -    | -    | 58,5 | -    | -    | 19 |
| 20                                                                                                                                                                                                                                                                                                                                                                                    | 77,0 | 60,5 | -    | 72,0 | 60,5 | -    | 65,5 | 56,5 | -    | 61,0 | -    | -    | 57,5 | -    | -    | 20 |
| 21                                                                                                                                                                                                                                                                                                                                                                                    | 75,5 | 59,5 | -    | 71,2 | 59,5 | -    | 64,5 | 55,7 | -    | 60,2 | 52,5 | -    | 56,5 | 49,5 | -    | 21 |
| 22                                                                                                                                                                                                                                                                                                                                                                                    | 74,0 | 58,5 | -    | 70,5 | 58,5 | -    | 63,5 | 55,0 | -    | 59,5 | 51,5 | -    | 55,5 | 48,8 | -    | 22 |
| 23                                                                                                                                                                                                                                                                                                                                                                                    | 72,2 | 57,2 | 37,0 | 69,5 | 57,5 | 37,0 | 62,5 | 54,5 | -    | 58,5 | 51,0 | -    | 54,7 | 48,1 | -    | 23 |
| 24                                                                                                                                                                                                                                                                                                                                                                                    | 70,5 | 56,0 | 36,5 | 68,5 | 56,5 | 36,5 | 61,5 | 54,0 | 36,4 | 57,5 | 50,5 | 36,3 | 54,0 | 47,4 | -    | 24 |
| 25                                                                                                                                                                                                                                                                                                                                                                                    | 69,0 | 55,0 | 36,0 | 67,5 | 55,5 | 36,0 | 60,7 | 53,2 | 35,9 | 56,7 | 49,8 | 35,8 | 53,2 | 46,7 | 35,6 | 25 |
| 26                                                                                                                                                                                                                                                                                                                                                                                    | 67,5 | 54,0 | 35,5 | 66,5 | 54,5 | 35,5 | 60,0 | 52,5 | 35,5 | 56,0 | 49,2 | 35,4 | 52,5 | 46,1 | 35,2 | 26 |
| 28                                                                                                                                                                                                                                                                                                                                                                                    | 65,0 | 52,5 | 34,5 | 64,5 | 52,5 | 34,6 | 58,0 | 51,0 | 34,6 | 54,0 | 47,8 | 34,6 | 50,5 | 44,8 | 34,4 | 28 |
| 30                                                                                                                                                                                                                                                                                                                                                                                    | 62,5 | 50,5 | 33,7 | 62,5 | 51,0 | 33,8 | 56,0 | 49,9 | 33,8 | 52,0 | 46,4 | 33,8 | 49,2 | 43,5 | 33,6 | 30 |
| 34                                                                                                                                                                                                                                                                                                                                                                                    | 58,0 | 47,4 | 32,0 | 58,5 | 48,2 | 32,2 | 53,0 | 47,2 | 32,3 | 49,1 | 43,8 | 32,4 | 46,1 | 41,1 | 32,2 | 34 |
| 38                                                                                                                                                                                                                                                                                                                                                                                    | 53,5 | 44,4 | 30,5 | 51,0 | 45,3 | 30,8 | 49,4 | 44,8 | 30,9 | 46,0 | 41,4 | 31,1 | 43,2 | 38,7 | 31,0 | 38 |
| 42                                                                                                                                                                                                                                                                                                                                                                                    | 45,8 | 41,8 | 29,2 | 44,5 | 42,7 | 29,5 | 42,7 | 42,4 | 29,7 | 40,4 | 39,1 | 29,9 | 38,3 | 36,6 | 29,8 | 42 |
| 46                                                                                                                                                                                                                                                                                                                                                                                    | 39,2 | 39,5 | 28,0 | 38,1 | 38,9 | 28,3 | 37,1 | 38,0 | 28,5 | 34,9 | 35,9 | 28,7 | 32,8 | 33,8 | 28,7 | 46 |
| 50                                                                                                                                                                                                                                                                                                                                                                                    | 33,9 | 34,5 | 26,9 | 32,6 | 33,4 | 27,3 | 31,6 | 32,5 | 27,5 | 30,2 | 31,1 | 27,7 | 28,1 | 29,1 | 27,7 | 50 |
| 54                                                                                                                                                                                                                                                                                                                                                                                    | 29,2 | 29,9 | 25,9 | 27,7 | 28,5 | 26,3 | 26,8 | 27,6 | 26,6 | 25,3 | 26,2 | 26,8 | 23,9 | 24,8 | 26,5 | 54 |
| 58                                                                                                                                                                                                                                                                                                                                                                                    | 25,1 | 25,7 | 24,9 | 23,6 | 24,3 | 25,4 | 22,6 | 23,3 | 24,6 | 21,2 | 21,9 | 23,3 | 19,8 | 20,6 | 22,1 | 58 |
| 62                                                                                                                                                                                                                                                                                                                                                                                    | 21,6 | 22,1 | 23,1 | 20,1 | 20,7 | 21,8 | 19,1 | 19,7 | 20,9 | 17,6 | 18,3 | 19,6 | 16,2 | 16,9 | 18,3 | 62 |
| 66                                                                                                                                                                                                                                                                                                                                                                                    | 18,5 | 19,0 | 19,9 | 17,0 | 17,5 | 18,5 | 16,0 | 16,6 | 17,6 | 14,5 | 15,1 | 16,3 | 13,0 | 13,7 | 15,0 | 66 |
| 70                                                                                                                                                                                                                                                                                                                                                                                    | 15,9 | 16,3 | 17,0 | 14,3 | 14,8 | 15,6 | 13,3 | 13,8 | 14,8 | 11,8 | 12,3 | 13,4 | 10,3 | 10,9 | 12,1 | 70 |
| 74                                                                                                                                                                                                                                                                                                                                                                                    | 13,5 | 13,9 | 14,5 | 11,9 | 12,4 | 13,1 | 10,9 | 11,4 | 12,2 | 9,4  | 9,9  | 10,8 | 7,9  | 8,5  | 9,5  | 74 |
| 78                                                                                                                                                                                                                                                                                                                                                                                    | 11,4 | 11,7 | 12,3 | 9,8  | 10,2 | 10,9 | 8,8  | 9,2  | 10,0 | 7,2  | 7,7  | 8,5  | 5,7  | 6,3  | 7,2  | 78 |
| 82                                                                                                                                                                                                                                                                                                                                                                                    | 9,5  | 9,8  | 10,3 | 7,9  | 8,3  | 8,9  | 6,9  | 7,3  | 7,9  | 5,3  | 5,8  | 6,5  | 3,8  | 4,3  | 5,1  | 82 |
| 83                                                                                                                                                                                                                                                                                                                                                                                    | 9,1  | 9,3  | 9,8  | 7,5  | 7,8  | 8,4  | 6,4  | 6,8  | 7,4  | 4,8  | 5,3  | 6,0  | -    | 3,8  | 4,6  | 83 |
| 84                                                                                                                                                                                                                                                                                                                                                                                    | 8,7  | 8,9  | 9,4  | 7,1  | 7,4  | 7,9  | 6,0  | 6,3  | 7,0  | 4,4  | 4,9  | 5,6  | -    | -    | 4,1  | 84 |
| 85                                                                                                                                                                                                                                                                                                                                                                                    | 8,3  | 8,5  | -    | 6,7  | 6,9  | 7,4  | 5,6  | 5,9  | 6,6  | 4,0  | 4,4  | 5,1  | -    | -    | 3,7  | 85 |
| 86                                                                                                                                                                                                                                                                                                                                                                                    | 7,9  | 8,1  | -    | 6,2  | 6,5  | 7,0  | 5,2  | 5,5  | 6,1  | 3,6  | 4,0  | 4,7  | -    | -    | -    | 86 |
| 87                                                                                                                                                                                                                                                                                                                                                                                    | 7,5  | 7,7  | -    | 5,8  | 6,1  | 6,6  | 4,8  | 5,1  | 5,7  | -    | 3,6  | 4,2  | -    | -    | -    | 87 |
| 88                                                                                                                                                                                                                                                                                                                                                                                    | 7,1  | 7,3  | -    | 5,4  | 5,7  | 6,2  | 4,4  | 4,7  | 5,3  | -    | -    | 3,8  | -    | -    | -    | 88 |
| 89                                                                                                                                                                                                                                                                                                                                                                                    | 6,7  | 6,9  | -    | 5,0  | 5,3  | 5,8  | 4,0  | 4,3  | 4,9  | -    | -    | -    | -    | -    | -    | 89 |
| 90                                                                                                                                                                                                                                                                                                                                                                                    | 6,3  | 6,6  | -    | 4,7  | 5,0  | -    | 3,7  | 4,0  | 4,5  | -    | -    | -    | -    | -    | -    | 90 |
| 91                                                                                                                                                                                                                                                                                                                                                                                    | 5,9  | 6,2  | -    | 4,3  | 4,6  | -    | -    | 3,6  | 4,1  | -    | -    | -    | -    | -    | -    | 91 |
| 92                                                                                                                                                                                                                                                                                                                                                                                    | 5,6  | 5,9  | -    | 4,0  | 4,3  | -    | -    | -    | 3,7  | -    | -    | -    | -    | -    | -    | 92 |
| 93                                                                                                                                                                                                                                                                                                                                                                                    | 5,3  | 5,5  | -    | 3,7  | 3,9  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 93 |
| 94                                                                                                                                                                                                                                                                                                                                                                                    | 5,0  | 5,2  | -    | -    | 3,6  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 94 |
| 98                                                                                                                                                                                                                                                                                                                                                                                    | 3,8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 98 |


45 t
85 t
125 t
165 t
185 t
205 t
225 t


0 t
30 t
50 t

# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| +  36 m  8,40 m  9.8 m/s 360° EN13000 |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|  48 m 54 m 60 m 66 m 72 m 78 m                                                                                       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| LH+LF_1                                                                                                                                                                                                                                                                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 36 m                                                                                                                                                                                                                                                                                     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°                                                                                                                                                                                                                  |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |
| m                                                                                                                                                                                                                                                                                        | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | m   |
| 18                                                                                                                                                                                                                                                                                       | 53,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 18  |
| 19                                                                                                                                                                                                                                                                                       | 51,7 | -    | -    | 52,0 | -    | -    | 52,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 19  |
| 20                                                                                                                                                                                                                                                                                       | 50,0 | -    | -    | 50,5 | -    | -    | 51,0 | -    | -    | 51,0 | -    | -    | 51,5 | -    | -    | -    | -    | -    | 20  |
| 21                                                                                                                                                                                                                                                                                       | 48,4 | 39,1 | -    | 49,0 | -    | -    | 49,5 | -    | -    | 49,8 | -    | -    | 50,2 | -    | -    | 50,0 | -    | -    | 21  |
| 22                                                                                                                                                                                                                                                                                       | 46,8 | 38,0 | -    | 47,6 | 38,3 | -    | 48,1 | 38,6 | -    | 48,6 | -    | -    | 48,9 | -    | -    | 49,1 | -    | -    | 22  |
| 23                                                                                                                                                                                                                                                                                       | 45,4 | 37,0 | -    | 46,2 | 37,3 | -    | 46,8 | 37,6 | -    | 47,3 | 37,8 | -    | 47,7 | 37,9 | -    | 47,9 | -    | -    | 23  |
| 24                                                                                                                                                                                                                                                                                       | 44,1 | 36,0 | -    | 44,9 | 36,4 | -    | 45,5 | 36,7 | -    | 46,1 | 36,9 | -    | 46,5 | 37,0 | -    | 46,8 | 37,1 | -    | 24  |
| 26                                                                                                                                                                                                                                                                                       | 41,7 | 34,2 | -    | 42,6 | 34,6 | -    | 43,3 | 35,0 | -    | 43,8 | 35,3 | -    | 44,3 | 35,5 | -    | 44,6 | 35,7 | -    | 26  |
| 27                                                                                                                                                                                                                                                                                       | 40,6 | 33,4 | 22,3 | 41,5 | 33,8 | 22,3 | 42,2 | 34,2 | -    | 42,8 | 34,5 | -    | 43,3 | 34,8 | -    | 43,6 | 35,0 | -    | 27  |
| 28                                                                                                                                                                                                                                                                                       | 39,5 | 32,6 | 21,8 | 40,4 | 33,1 | 21,9 | 41,2 | 33,5 | 22,0 | 41,9 | 33,8 | 22,0 | 42,3 | 34,1 | -    | 42,7 | 34,3 | -    | 28  |
| 29                                                                                                                                                                                                                                                                                       | 38,4 | 31,8 | 21,3 | 39,4 | 32,3 | 21,5 | 40,2 | 32,8 | 21,6 | 40,9 | 33,1 | 21,6 | 41,4 | 33,4 | 21,6 | 41,8 | 33,6 | 21,6 | 29  |
| 30                                                                                                                                                                                                                                                                                       | 37,4 | 31,0 | 20,9 | 38,4 | 31,6 | 21,1 | 39,3 | 32,1 | 21,2 | 40,0 | 32,5 | 21,2 | 40,6 | 32,8 | 21,2 | 41,0 | 33,0 | 21,3 | 30  |
| 34                                                                                                                                                                                                                                                                                       | 33,7 | 28,3 | 19,4 | 34,8 | 29,0 | 19,6 | 35,8 | 29,5 | 19,8 | 36,6 | 30,0 | 19,9 | 37,3 | 30,4 | 20,0 | 37,9 | 30,8 | 20,0 | 34  |
| 38                                                                                                                                                                                                                                                                                       | 30,7 | 26,0 | 18,0 | 31,7 | 26,7 | 18,3 | 32,7 | 27,3 | 18,5 | 33,6 | 27,9 | 18,7 | 34,4 | 28,3 | 18,8 | 35,1 | 28,7 | 18,9 | 38  |
| 42                                                                                                                                                                                                                                                                                       | 28,3 | 24,0 | 16,9 | 29,2 | 24,7 | 17,2 | 30,2 | 25,4 | 17,4 | 31,1 | 25,9 | 17,6 | 31,8 | 26,5 | 17,8 | 32,6 | 26,9 | 17,9 | 42  |
| 46                                                                                                                                                                                                                                                                                       | 26,4 | 22,5 | 15,9 | 27,3 | 23,1 | 16,2 | 28,1 | 23,7 | 16,4 | 28,9 | 24,3 | 16,7 | 29,6 | 24,8 | 16,9 | 30,4 | 25,3 | 17,0 | 46  |
| 50                                                                                                                                                                                                                                                                                       | 24,6 | 21,1 | 15,0 | 25,6 | 21,8 | 15,3 | 26,4 | 22,4 | 15,6 | 27,1 | 22,9 | 15,8 | 27,8 | 23,4 | 16,0 | 28,5 | 23,9 | 16,2 | 50  |
| 54                                                                                                                                                                                                                                                                                       | 22,9 | 19,8 | 14,3 | 24,0 | 20,6 | 14,6 | 24,9 | 21,2 | 14,9 | 25,7 | 21,8 | 15,1 | 26,3 | 22,2 | 15,3 | 26,9 | 22,6 | 15,5 | 54  |
| 58                                                                                                                                                                                                                                                                                       | 21,5 | 18,7 | 13,6 | 22,5 | 19,4 | 13,9 | 23,5 | 20,1 | 14,2 | 24,3 | 20,6 | 14,5 | 25,0 | 21,1 | 14,7 | 25,6 | 21,6 | 14,9 | 58  |
| 62                                                                                                                                                                                                                                                                                       | 20,2 | 17,7 | 13,1 | 21,3 | 18,4 | 13,4 | 22,2 | 19,1 | 13,6 | 23,0 | 19,6 | 13,9 | 23,7 | 20,2 | 14,1 | 24,2 | 20,6 | 14,3 | 62  |
| 66                                                                                                                                                                                                                                                                                       | 19,1 | 16,8 | 12,6 | 20,1 | 17,6 | 12,9 | 21,0 | 18,2 | 13,1 | 21,8 | 18,7 | 13,4 | 22,4 | 19,2 | 13,6 | 21,1 | 19,7 | 13,8 | 66  |
| 70                                                                                                                                                                                                                                                                                       | 18,2 | 16,1 | 12,3 | 19,1 | 16,8 | 12,5 | 20,0 | 17,4 | 12,7 | 20,7 | 17,9 | 12,9 | 21,7 | 18,4 | 13,1 | 18,3 | 18,9 | 13,3 | 70  |
| 74                                                                                                                                                                                                                                                                                       | 17,4 | 15,5 | -    | 18,2 | 16,1 | 12,2 | 19,1 | 16,7 | 12,4 | 18,3 | 17,2 | 12,5 | 17,3 | 17,7 | 12,7 | 15,9 | 16,4 | 12,9 | 74  |
| 75                                                                                                                                                                                                                                                                                       | 17,2 | 15,3 | -    | 18,0 | 15,9 | 12,1 | 18,7 | 16,5 | 12,3 | 17,7 | 17,0 | 12,4 | 16,7 | 17,1 | 12,6 | 15,3 | 15,8 | 12,8 | 75  |
| 76                                                                                                                                                                                                                                                                                       | 17,0 | 15,2 | -    | 17,8 | 15,8 | -    | 18,3 | 16,4 | 12,2 | 17,2 | 16,8 | 12,3 | 16,2 | 16,6 | 12,5 | 14,8 | 15,3 | 12,7 | 76  |
| 78                                                                                                                                                                                                                                                                                       | 16,7 | -    | -    | 17,5 | 15,5 | -    | 17,6 | 16,1 | 12,1 | 16,2 | 16,5 | 12,2 | 15,1 | 15,6 | 12,4 | 13,7 | 14,2 | 12,5 | 78  |
| 79                                                                                                                                                                                                                                                                                       | -    | -    | -    | 17,3 | 15,4 | -    | 17,1 | 15,9 | 12,0 | 15,7 | 16,0 | 12,1 | 14,6 | 15,1 | 12,3 | 13,2 | 13,7 | 12,4 | 79  |
| 81                                                                                                                                                                                                                                                                                       | -    | -    | -    | 16,9 | 15,2 | -    | 16,1 | 15,6 | -    | 14,7 | 15,0 | 12,0 | 13,6 | 14,1 | 12,2 | 12,2 | 12,7 | 12,2 | 81  |
| 82                                                                                                                                                                                                                                                                                       | -    | -    | -    | 16,8 | -    | -    | 15,7 | 15,5 | -    | 14,2 | 14,6 | 12,0 | 13,2 | 13,6 | 12,1 | 11,8 | 12,2 | 12,2 | 82  |
| 83                                                                                                                                                                                                                                                                                       | -    | -    | -    | 16,6 | -    | -    | 15,2 | 15,1 | -    | 13,7 | 14,1 | 11,9 | 12,7 | 13,1 | 12,0 | 11,3 | 11,7 | 11,9 | 83  |
| 86                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | 13,9 | 14,1 | -    | 12,5 | 12,8 | -    | 11,5 | 11,8 | 11,9 | 10,0 | 10,4 | 11,1 | 86  |
| 87                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | 13,5 | -    | -    | 12,1 | 12,4 | -    | 11,1 | 11,4 | 11,8 | 9,6  | 10,0 | 10,6 | 87  |
| 88                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | 13,1 | -    | -    | 11,7 | 12,0 | -    | 10,7 | 11,0 | -    | 9,2  | 9,6  | 10,2 | 88  |
| 90                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | 10,9 | 11,2 | -    | 9,9  | 10,2 | -    | 8,4  | 8,8  | 9,4  | 90  |
| 92                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | 10,2 | -    | -    | 9,1  | 9,4  | -    | 7,7  | 8,0  | 8,6  | 92  |
| 94                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | 9,5  | -    | -    | 8,5  | 8,7  | -    | 7,0  | 7,3  | -    | 94  |
| 95                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 8,1  | 8,3  | -    | 6,6  | 6,9  | -    | 95  |
| 98                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 7,1  | -    | -    | 5,7  | 5,9  | -    | 98  |
| 99                                                                                                                                                                                                                                                                                       | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 6,8  | -    | -    | 5,3  | 5,6  | -    | 99  |
| 100                                                                                                                                                                                                                                                                                      | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 5,0  | 5,3  | -    | 100 |
| 102                                                                                                                                                                                                                                                                                      | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 4,4  | -    | -    | 102 |
| 104                                                                                                                                                                                                                                                                                      | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 3,9  | -    | -    | 104 |

45 t

85 t

125 t

165 t

185 t

205 t

225 t

0 t

30 t

50 t

# Operation

LH+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|   36 m  8,40 m  9.8 m/s 360° EN13000 |      |      |      |      |      |      |      |      |      |      |      |      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
|  84 m 90 m 96 m 102 m                                                                                                                                                                                                                                                                   |      |      |      |      |      |      |      |      |      |      |      |      |     |
|   LH+LF_1 36 m                                                                                                                                                                                         |      |      |      |      |      |      |      |      |      |      |      |      |     |
|   15° 20° 30° 15° 20° 30° 15° 20° 30° 15° 20° 30°                                                                   |      |      |      |      |      |      |      |      |      |      |      |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                        | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | m   |
| 21                                                                                                                                                                                                                                                                                                                                                                       | 50,0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                       | 49,0 | -    | -    | 48,2 | -    | -    | -    | -    | -    | -    | -    | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                       | 47,9 | -    | -    | 47,4 | -    | -    | 43,9 | -    | -    | 41,1 | -    | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                       | 46,9 | 37,0 | -    | 46,6 | -    | -    | 43,4 | -    | -    | 40,6 | -    | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                       | 45,9 | 36,3 | -    | 45,8 | 36,3 | -    | 42,8 | 36,0 | -    | 40,0 | -    | -    | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                       | 44,9 | 35,7 | -    | 45,0 | 35,7 | -    | 42,3 | 35,4 | -    | 39,5 | 33,9 | -    | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                       | 43,1 | 34,4 | -    | 43,3 | 34,4 | -    | 41,2 | 34,3 | -    | 38,4 | 33,1 | -    | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                       | 41,4 | 33,2 | 21,2 | 41,7 | 33,3 | 21,1 | 40,1 | 33,2 | -    | 37,4 | 32,3 | -    | 30  |
| 31                                                                                                                                                                                                                                                                                                                                                                       | 40,6 | 32,6 | 20,9 | 40,9 | 32,7 | 20,8 | 39,5 | 32,7 | 20,7 | 36,8 | 31,9 | 20,6 | 31  |
| 34                                                                                                                                                                                                                                                                                                                                                                       | 38,5 | 31,0 | 20,0 | 38,8 | 31,2 | 20,0 | 37,9 | 31,2 | 20,0 | 35,2 | 30,7 | 19,9 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                       | 35,8 | 29,1 | 19,0 | 36,2 | 29,4 | 19,0 | 35,8 | 29,4 | 19,0 | 33,2 | 29,2 | 19,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                       | 33,4 | 27,4 | 18,1 | 33,9 | 27,7 | 18,1 | 33,8 | 27,8 | 18,1 | 31,2 | 27,7 | 18,1 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                       | 31,2 | 25,8 | 17,2 | 31,8 | 26,1 | 17,3 | 31,9 | 26,3 | 17,3 | 29,4 | 26,3 | 17,4 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                       | 29,3 | 24,4 | 16,4 | 29,9 | 24,7 | 16,5 | 30,2 | 25,0 | 16,6 | 27,7 | 24,9 | 16,6 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                       | 27,7 | 23,1 | 15,7 | 28,2 | 23,5 | 15,8 | 28,6 | 23,8 | 15,9 | 26,1 | 23,7 | 16,0 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                       | 26,3 | 22,1 | 15,1 | 26,0 | 22,4 | 15,2 | 25,1 | 22,7 | 15,3 | 23,6 | 22,5 | 15,4 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                       | 23,7 | 21,2 | 14,5 | 22,3 | 21,5 | 14,7 | 21,4 | 21,7 | 14,8 | 20,1 | 21,1 | 14,8 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                       | 20,5 | 20,3 | 14,0 | 19,1 | 20,0 | 14,2 | 18,2 | 19,1 | 14,3 | 16,9 | 17,8 | 14,3 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                       | 17,8 | 18,4 | 13,5 | 16,4 | 17,1 | 13,7 | 15,4 | 16,2 | 13,8 | 14,1 | 14,9 | 14,0 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                       | 15,3 | 15,9 | 13,1 | 13,9 | 14,6 | 13,3 | 13,0 | 13,7 | 13,4 | 11,6 | 12,4 | 13,6 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                       | 13,1 | 13,7 | 12,8 | 11,7 | 12,3 | 12,9 | 10,8 | 11,4 | 12,7 | 9,4  | 10,1 | 11,4 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                       | 11,2 | 11,7 | 12,4 | 9,8  | 10,3 | 11,3 | 8,8  | 9,4  | 10,5 | 7,4  | 8,0  | 9,3  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                       | 9,4  | 9,9  | 10,7 | 8,0  | 8,5  | 9,4  | 7,0  | 7,6  | 8,6  | 5,6  | 6,2  | 7,3  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                       | 7,8  | 8,2  | 8,9  | 6,4  | 6,8  | 7,6  | 5,4  | 5,9  | 6,8  | 4,0  | 4,5  | 5,5  | 90  |
| 91                                                                                                                                                                                                                                                                                                                                                                       | 7,4  | 7,8  | 8,5  | 6,0  | 6,5  | 7,2  | 5,0  | 5,5  | 6,4  | 3,6  | 4,1  | 5,1  | 91  |
| 92                                                                                                                                                                                                                                                                                                                                                                       | 7,1  | 7,5  | 8,1  | 5,6  | 6,1  | 6,8  | 4,7  | 5,1  | 6,0  | -    | 3,7  | 4,7  | 92  |
| 94                                                                                                                                                                                                                                                                                                                                                                       | 6,4  | 6,8  | 7,3  | 4,9  | 5,3  | 6,0  | 4,0  | 4,4  | 5,2  | -    | -    | 3,9  | 94  |
| 95                                                                                                                                                                                                                                                                                                                                                                       | 6,0  | 6,4  | 6,9  | 4,5  | 4,9  | 5,6  | 3,6  | 4,0  | 4,8  | -    | -    | 3,5  | 95  |
| 96                                                                                                                                                                                                                                                                                                                                                                       | 5,7  | 6,0  | 6,6  | 4,2  | 4,6  | 5,3  | -    | 3,7  | 4,4  | -    | -    | -    | 96  |
| 98                                                                                                                                                                                                                                                                                                                                                                       | 5,1  | 5,4  | -    | 3,6  | 4,0  | 4,6  | -    | -    | 3,7  | -    | -    | -    | 98  |
| 99                                                                                                                                                                                                                                                                                                                                                                       | 4,8  | 5,0  | -    | -    | 3,6  | 4,2  | -    | -    | -    | -    | -    | -    | 99  |
| 100                                                                                                                                                                                                                                                                                                                                                                      | 4,5  | 4,7  | -    | -    | -    | 3,9  | -    | -    | -    | -    | -    | -    | 100 |
| 102                                                                                                                                                                                                                                                                                                                                                                      | 3,9  | 4,1  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 102 |
| 103                                                                                                                                                                                                                                                                                                                                                                      | 3,6  | 3,8  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 103 |
| 104                                                                                                                                                                                                                                                                                                                                                                      | -    | 3,5  | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | 104 |

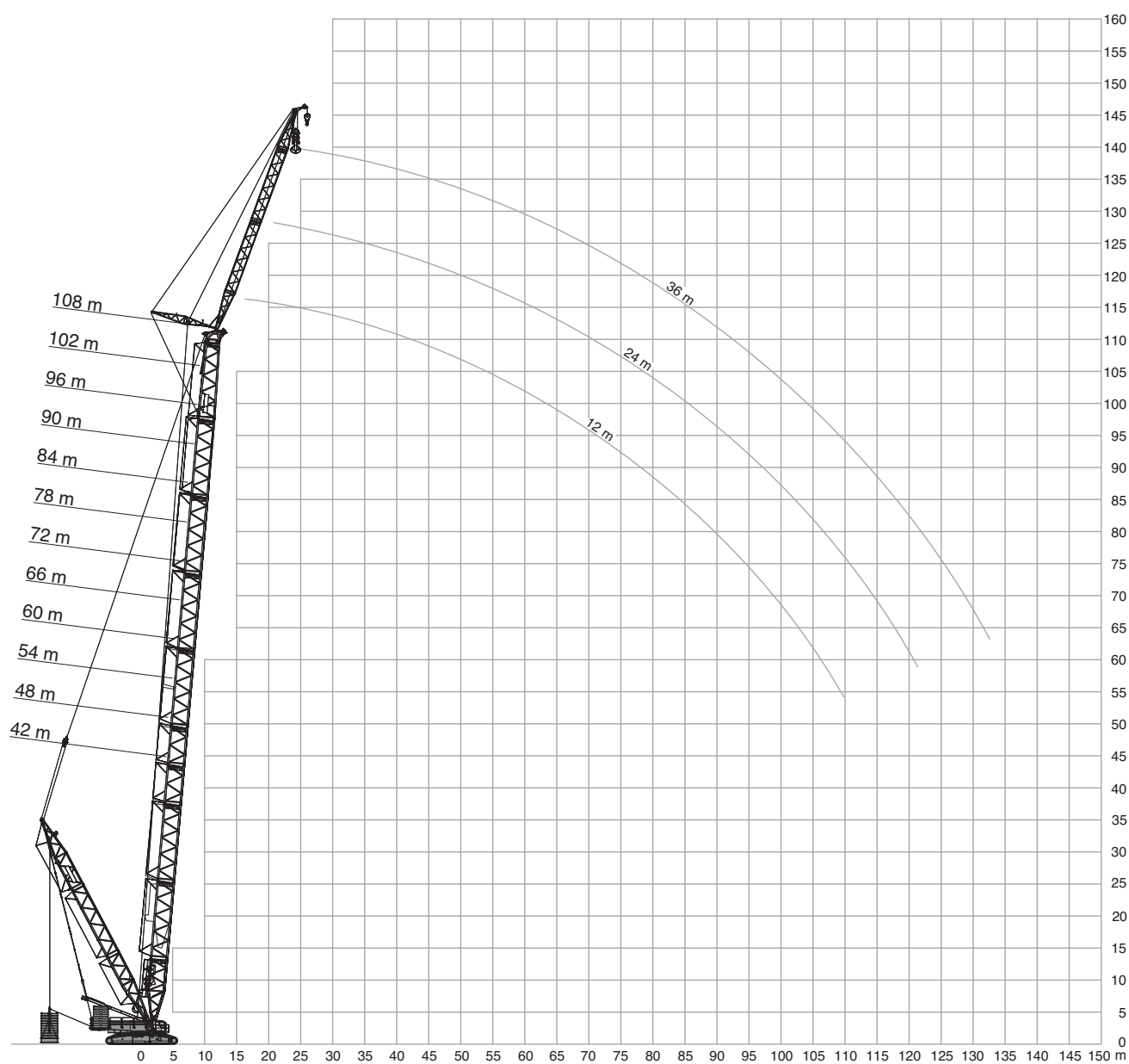
|                                                                                     |      |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|------|------|-------|-------|-------|-------|-------|
|  | 45 t | 85 t | 125 t | 165 t | 185 t | 205 t | 225 t |
|  | 0 t  |      | 30 t  |       | 50 t  |       |       |



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

SSL+LF\_1



# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  165 t +  50 t |       |  11-19 m |       |  8,40 m |      |  9.8 m/s |      | 360°      |      | EN13000   |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------|------|-----------|------|-----------|------|
|  42 m                                                                                           |       | SSL+LF_1                                                                                  |       |                                                                                          |      |                                                                                            |      |           |      |           |      |
|  12 m                                                                                           |       | 24 m                                                                                      |       | 36 m                                                                                     |      |                                                                                            |      |           |      |           |      |
|  0 t                                                                                            |       | 0 t-325 t                                                                                 |       | 0 t-325 t                                                                                |      | 0 t-325 t                                                                                  |      | 0 t-325 t |      | 0 t-325 t |      |
|  15°                                                                                            |       | 20°                                                                                       |       | 30°                                                                                      |      | 15°                                                                                        |      | 20°       |      | 30°       |      |
| m                                                                                                                                                                                | t     | t                                                                                         | t     | t                                                                                        | t    | t                                                                                          | t    | t         | t    | t         | t    |
| 11                                                                                                                                                                               | 162,0 | 162,0                                                                                     | -     | -                                                                                        | -    | -                                                                                          | -    | -         | -    | -         | -    |
| 12                                                                                                                                                                               | 154,0 | 154,0                                                                                     | 120,0 | 120,0                                                                                    | -    | -                                                                                          | -    | -         | -    | -         | -    |
| 13                                                                                                                                                                               | 147,0 | 147,0                                                                                     | 115,5 | 115,5                                                                                    | 76,5 | 76,5                                                                                       | -    | -         | -    | -         | -    |
| 14                                                                                                                                                                               | 140,0 | 140,0                                                                                     | 111,0 | 111,0                                                                                    | 74,5 | 74,5                                                                                       | -    | -         | -    | -         | -    |
| 15                                                                                                                                                                               | 134,0 | 134,0                                                                                     | 107,0 | 107,0                                                                                    | 72,5 | 72,5                                                                                       | 79,0 | 79,0      | -    | -         | -    |
| 16                                                                                                                                                                               | 128,0 | 128,0                                                                                     | 103,0 | 103,0                                                                                    | 70,5 | 70,5                                                                                       | 75,5 | 75,5      | -    | -         | -    |
| 17                                                                                                                                                                               | 123,5 | 123,5                                                                                     | 99,7  | 99,7                                                                                     | 68,7 | 68,7                                                                                       | 72,5 | 58,0      | 58,0 | -         | -    |
| 18                                                                                                                                                                               | 119,0 | 119,0                                                                                     | 96,5  | 96,5                                                                                     | 67,0 | 67,0                                                                                       | 69,5 | 56,0      | 56,0 | -         | -    |
| 19                                                                                                                                                                               | 114,5 | 114,5                                                                                     | 93,7  | 93,7                                                                                     | 65,5 | 65,5                                                                                       | 67,0 | 54,2      | 54,2 | -         | -    |
| 20                                                                                                                                                                               | 110,0 | 110,0                                                                                     | 91,0  | 91,0                                                                                     | 64,0 | 64,0                                                                                       | 64,5 | 52,5      | 52,5 | 35,9      | 35,9 |
| 22                                                                                                                                                                               | 103,0 | 103,0                                                                                     | 86,0  | 86,0                                                                                     | 61,5 | 61,5                                                                                       | 60,0 | 49,3      | 49,3 | 34,1      | 34,1 |
| 24                                                                                                                                                                               | 97,0  | 97,0                                                                                      | 81,5  | 81,5                                                                                     | 59,0 | 59,0                                                                                       | 56,0 | 46,5      | 46,5 | 32,5      | 32,5 |
| 26                                                                                                                                                                               | 91,5  | 91,5                                                                                      | 77,5  | 77,5                                                                                     | 56,5 | 56,5                                                                                       | 53,0 | 44,0      | 44,0 | 31,1      | 31,1 |
| 27                                                                                                                                                                               | 89,0  | 89,0                                                                                      | 75,5  | 75,5                                                                                     | 55,5 | 55,5                                                                                       | 51,4 | 42,9      | 42,9 | 30,4      | 30,4 |
| 28                                                                                                                                                                               | 86,5  | 86,5                                                                                      | 73,5  | 73,5                                                                                     | 54,5 | 54,5                                                                                       | 49,9 | 41,8      | 41,8 | 29,8      | 29,8 |
| 30                                                                                                                                                                               | 78,5  | 82,5                                                                                      | 70,5  | 70,5                                                                                     | 53,0 | 53,0                                                                                       | 47,2 | 39,8      | 39,8 | 28,6      | 28,6 |
| 34                                                                                                                                                                               | 66,5  | 75,1                                                                                      | 63,8  | 65,1                                                                                     | 50,0 | 50,0                                                                                       | 42,8 | 36,4      | 36,4 | 26,6      | 26,6 |
| 38                                                                                                                                                                               | 56,4  | 69,0                                                                                      | 56,5  | 60,6                                                                                     | 47,6 | 47,6                                                                                       | 38,9 | 33,5      | 33,5 | 24,9      | 24,9 |
| 42                                                                                                                                                                               | 48,3  | 64,0                                                                                      | 48,5  | 57,0                                                                                     | 45,6 | 45,6                                                                                       | 35,7 | 31,0      | 31,0 | 23,4      | 23,4 |
| 44                                                                                                                                                                               | 45,3  | 62,1                                                                                      | 45,5  | 55,6                                                                                     | 42,9 | 44,8                                                                                       | 34,4 | 30,0      | 30,0 | 22,8      | 22,8 |
| 46                                                                                                                                                                               | 42,4  | 60,3                                                                                      | 42,5  | 54,3                                                                                     | -    | -                                                                                          | 33,1 | 29,0      | 29,0 | 22,2      | 22,2 |
| 48                                                                                                                                                                               | 39,5  | 58,5                                                                                      | 39,6  | 53,0                                                                                     | -    | -                                                                                          | 31,9 | 28,1      | 28,1 | 21,7      | 21,7 |
| 50                                                                                                                                                                               | 37,1  | 57,0                                                                                      | -     | -                                                                                        | -    | -                                                                                          | 30,9 | 27,3      | 27,3 | 21,2      | 21,2 |
| 54                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | 29,0 | 25,8      | 25,8 | 20,4      | 20,4 |
| 55                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | 28,6 | 25,5      | 25,5 | 20,3      | 20,3 |
| 58                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | 27,5 | 24,7      | 24,7 | -         | -    |
| 60                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | 26,8 | 24,2      | 24,2 | -         | -    |
| 62                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | 26,3 | 23,7      | 23,7 | -         | -    |
| 66                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | -    | -         | -    | 18,0      | 18,0 |
| 67                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | -    | -         | -    | 17,0      | 17,0 |
| 70                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | -    | -         | -    | 16,2      | 16,2 |
| 72                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | -    | -         | -    | 15,8      | 15,8 |
| 73                                                                                                                                                                               | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                          | -    | -         | -    | 15,6      | 15,6 |

 0 t 65 t 125 t 165 t 205 t 265 t 325 t

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
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| 165 t +  50 t |       |         |  11-19 m |         |      |  8,40 m |      |         |  9.8 m/s |         |      | 360°    |      | EN13000 |      |         |      |         |
|------------------------------------------------------------------------------------------------|-------|---------|-------------------------------------------------------------------------------------------|---------|------|------------------------------------------------------------------------------------------|------|---------|--------------------------------------------------------------------------------------------|---------|------|---------|------|---------|------|---------|------|---------|
|  48 m         |       |         |                                                                                           |         |      |                                                                                          |      |         |                                                                                            |         |      |         |      |         |      |         |      |         |
| SSL+LF_1                                                                                       |       |         |                                                                                           |         |      |                                                                                          |      |         |                                                                                            |         |      |         |      |         |      |         |      |         |
| 12 m                                                                                           |       |         |                                                                                           |         |      | 24 m                                                                                     |      |         |                                                                                            |         |      | 36 m    |      |         |      |         |      |         |
|               | 0 t   | 0t-325t | 0 t                                                                                       | 0t-325t | 0 t  | 0t-325t                                                                                  | 0 t  | 0t-325t | 0 t                                                                                        | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t |
|               | 15°   |         | 20°                                                                                       |         | 30°  |                                                                                          | 15°  |         | 20°                                                                                        |         | 30°  |         | 15°  |         | 20°  |         | 30°  |         |
| m                                                                                              | t     | t       | t                                                                                         | t       | t    | t                                                                                        | t    | t       | t                                                                                          | t       | t    | t       | t    | t       | t    | t       | t    | t       |
| 11                                                                                             | 167,0 | 167,0   | -                                                                                         | -       | -    | -                                                                                        | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -    | -       | -    | -       |
| 12                                                                                             | 159,0 | 159,0   | 122,0                                                                                     | 122,0   | -    | -                                                                                        | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -    | -       | -    | -       |
| 14                                                                                             | 145,0 | 145,0   | 114,0                                                                                     | 114,0   | 75,5 | 75,5                                                                                     | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -    | -       | -    | -       |
| 15                                                                                             | 139,5 | 139,5   | 110,0                                                                                     | 110,0   | 73,7 | 73,7                                                                                     | 81,0 | 81,0    | -                                                                                          | -       | -    | -       | -    | -       | -    | -       | -    | -       |
| 16                                                                                             | 134,0 | 134,0   | 106,0                                                                                     | 106,0   | 72,0 | 72,0                                                                                     | 78,0 | 78,0    | -                                                                                          | -       | -    | -       | -    | -       | -    | -       | -    | -       |
| 17                                                                                             | 129,0 | 129,0   | 103,0                                                                                     | 103,0   | 70,2 | 70,2                                                                                     | 75,0 | 75,0    | 59,0                                                                                       | 59,0    | -    | -       | -    | -       | -    | -       | -    | -       |
| 18                                                                                             | 124,0 | 124,0   | 100,0                                                                                     | 100,0   | 68,5 | 68,5                                                                                     | 72,0 | 72,0    | 57,0                                                                                       | 57,0    | -    | -       | -    | -       | -    | -       | -    | -       |
| 19                                                                                             | 120,0 | 120,0   | 97,2                                                                                      | 97,2    | 67,0 | 67,0                                                                                     | 69,5 | 69,5    | 55,2                                                                                       | 55,2    | -    | -       | 51,0 | 51,0    | -    | -       | -    | -       |
| 20                                                                                             | 116,0 | 116,0   | 94,5                                                                                      | 94,5    | 65,5 | 65,5                                                                                     | 67,0 | 67,0    | 53,5                                                                                       | 53,5    | -    | -       | 49,2 | 49,4    | -    | -       | -    | -       |
| 21                                                                                             | 112,5 | 112,5   | 92,0                                                                                      | 92,0    | 64,2 | 64,2                                                                                     | 64,7 | 64,7    | 52,0                                                                                       | 52,0    | 35,4 | 35,4    | 47,5 | 47,7    | -    | -       | -    | -       |
| 22                                                                                             | 109,0 | 109,0   | 89,5                                                                                      | 89,5    | 63,0 | 63,0                                                                                     | 62,5 | 62,5    | 50,5                                                                                       | 50,5    | 34,6 | 34,6    | 45,9 | 46,1    | 37,3 | 37,5    | -    | -       |
| 24                                                                                             | 102,0 | 102,0   | 85,0                                                                                      | 85,0    | 60,5 | 60,5                                                                                     | 58,5 | 58,5    | 48,0                                                                                       | 48,0    | 33,1 | 33,1    | 43,1 | 43,3    | 35,2 | 35,4    | -    | -       |
| 26                                                                                             | 95,0  | 97,0    | 81,0                                                                                      | 81,0    | 58,5 | 58,5                                                                                     | 55,0 | 55,0    | 45,5                                                                                       | 45,5    | 31,7 | 31,7    | 40,7 | 40,8    | 33,4 | 33,4    | -    | -       |
| 28                                                                                             | 85,5  | 92,0    | 77,5                                                                                      | 77,5    | 56,5 | 56,5                                                                                     | 52,0 | 52,0    | 43,3                                                                                       | 43,3    | 30,5 | 30,5    | 38,4 | 38,5    | 31,7 | 31,7    | 21,5 | 21,5    |
| 30                                                                                             | 77,0  | 87,5    | 74,0                                                                                      | 74,0    | 54,5 | 54,5                                                                                     | 49,6 | 49,6    | 41,3                                                                                       | 41,3    | 29,3 | 29,3    | 36,3 | 36,4    | 30,1 | 30,1    | 20,6 | 20,6    |
| 34                                                                                             | 65,0  | 80,1    | 64,3                                                                                      | 68,6    | 51,5 | 51,5                                                                                     | 45,1 | 45,1    | 37,9                                                                                       | 37,9    | 27,3 | 27,3    | 32,7 | 32,8    | 27,4 | 27,4    | 19,0 | 19,0    |
| 38                                                                                             | 54,9  | 73,8    | 55,4                                                                                      | 64,0    | 49,0 | 49,0                                                                                     | 41,2 | 41,2    | 35,0                                                                                       | 35,0    | 25,6 | 25,6    | 29,7 | 29,7    | 25,0 | 25,0    | 17,6 | 17,6    |
| 42                                                                                             | 46,9  | 68,5    | 47,2                                                                                      | 60,0    | 47,0 | 47,0                                                                                     | 37,8 | 37,8    | 32,5                                                                                       | 32,5    | 24,1 | 24,1    | 27,1 | 27,2    | 23,0 | 23,0    | 16,4 | 16,4    |
| 46                                                                                             | 40,9  | 64,1    | 41,2                                                                                      | 57,0    | 41,3 | 45,4                                                                                     | 35,1 | 35,1    | 30,4                                                                                       | 30,4    | 22,9 | 22,9    | 25,1 | 25,1    | 21,4 | 21,4    | 15,4 | 15,4    |
| 48                                                                                             | 38,0  | 62,0    | 38,2                                                                                      | 55,5    | 38,5 | 44,7                                                                                     | 33,8 | 33,8    | 29,4                                                                                       | 29,4    | 22,4 | 22,4    | 24,1 | 24,1    | 20,6 | 20,6    | 14,9 | 14,9    |
| 50                                                                                             | 35,7  | 60,5    | 35,8                                                                                      | 54,3    | -    | -                                                                                        | 32,7 | 32,7    | 28,6                                                                                       | 28,6    | 21,9 | 21,9    | 23,2 | 23,2    | 19,9 | 19,9    | 14,4 | 14,4    |
| 53                                                                                             | 32,4  | 58,2    | 32,4                                                                                      | 52,5    | -    | -                                                                                        | 31,2 | 31,2    | 27,4                                                                                       | 27,4    | 21,2 | 21,2    | 22,0 | 22,0    | 18,9 | 18,9    | 13,8 | 13,8    |
| 54                                                                                             | 31,3  | 57,5    | -                                                                                         | -       | -    | -                                                                                        | 30,7 | 30,7    | 27,1                                                                                       | 27,1    | 21,0 | 21,0    | 21,6 | 21,6    | 18,6 | 18,6    | 13,6 | 13,6    |
| 55                                                                                             | 30,4  | 57,0    | -                                                                                         | -       | -    | -                                                                                        | 30,2 | 30,3    | 26,8                                                                                       | 26,8    | 20,8 | 20,8    | 21,2 | 21,2    | 18,3 | 18,3    | 13,4 | 13,4    |
| 58                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | 28,9 | 29,1    | 25,9                                                                                       | 25,9    | 20,3 | 20,3    | 20,2 | 20,2    | 17,5 | 17,5    | 13,0 | 13,0    |
| 59                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | 28,5 | 28,7    | 25,6                                                                                       | 25,6    | 20,2 | 20,2    | 19,9 | 19,9    | 17,2 | 17,2    | 12,8 | 12,8    |
| 62                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | 26,6 | 27,7    | 24,8                                                                                       | 24,8    | -    | -       | 19,0 | 19,0    | 16,5 | 16,5    | 12,4 | 12,4    |
| 65                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | 24,4 | 26,8    | 24,1                                                                                       | 24,1    | -    | -       | 18,1 | 18,1    | 15,9 | 15,9    | 12,0 | 12,0    |
| 66                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | 23,7 | 26,5    | -                                                                                          | -       | -    | -       | 17,9 | 17,9    | 15,7 | 15,7    | 11,9 | 11,9    |
| 67                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | 23,0 | 26,3    | -                                                                                          | -       | -    | -       | 17,6 | 17,6    | 15,5 | 15,5    | 11,8 | 11,8    |
| 70                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | -    | -       | -                                                                                          | -       | -    | -       | 17,0 | 17,0    | 15,0 | 15,0    | 11,5 | 11,5    |
| 71                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | -    | -       | -                                                                                          | -       | -    | -       | 16,8 | 16,8    | 14,8 | 14,8    | 11,4 | 11,4    |
| 74                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | -    | -       | -                                                                                          | -       | -    | -       | 16,2 | 16,2    | 14,4 | 14,4    | -    | -       |
| 76                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | -    | -       | -                                                                                          | -       | -    | -       | 15,9 | 15,9    | 14,2 | 14,2    | -    | -       |
| 78                                                                                             | -     | -       | -                                                                                         | -       | -    | -                                                                                        | -    | -       | -                                                                                          | -       | -    | -       | 15,6 | 15,6    | -    | -       | -    | -       |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|--|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF\_1

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| 165 t + 50 t                                                                                                                        |       |         | 11-19 m |       |      |         | 8,40 m |      |      |         | 9.8 m/s |      |      |         | 360° |      | EN13000 |         |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|---------|---------|-------|------|---------|--------|------|------|---------|---------|------|------|---------|------|------|---------|---------|--|
| 54 m                                                                                                                                |       |         |         |       |      |         |        |      |      |         |         |      |      |         |      |      |         |         |  |
| SSL+LF_1                                                                                                                            |       |         |         |       |      |         |        |      |      |         |         |      |      |         |      |      |         |         |  |
| 12 m                                                                                                                                |       |         |         |       |      |         |        | 24 m |      |         |         |      |      |         |      | 36 m |         |         |  |
| 0 t                                                                                                                                 |       | 0t-325t |         | 0 t   |      | 0t-325t |        | 0 t  |      | 0t-325t |         | 0 t  |      | 0t-325t |      | 0 t  |         | 0t-325t |  |
| 15°                                                                                                                                 |       | 20°     |         | 30°   |      | 15°     |        | 20°  |      | 30°     |         | 15°  |      | 20°     |      | 30°  |         |         |  |
| m                                                                                                                                   | t     | t       | t       | t     | t    | t       | t      | t    | t    | t       | t       | t    | t    | t       | t    | t    | t       | t       |  |
| 12                                                                                                                                  | 163,0 | 163,0   | -       | -     | -    | -       | -      | -    | -    | -       | -       | -    | -    | -       | -    | -    | -       | -       |  |
| 13                                                                                                                                  | 156,5 | 156,5   | 120,0   | 120,0 | -    | -       | -      | -    | -    | -       | -       | -    | -    | -       | -    | -    | -       | -       |  |
| 14                                                                                                                                  | 150,0 | 150,0   | 117,0   | 117,0 | 76,5 | 76,5    | -      | -    | -    | -       | -       | -    | -    | -       | -    | -    | -       | -       |  |
| 16                                                                                                                                  | 139,0 | 139,0   | 109,0   | 109,0 | 73,0 | 73,0    | 79,5   | 79,5 | -    | -       | -       | -    | -    | -       | -    | -    | -       | -       |  |
| 18                                                                                                                                  | 130,0 | 130,0   | 103,0   | 103,0 | 70,0 | 70,0    | 74,0   | 74,0 | 58,0 | 58,0    | -       | -    | -    | -       | -    | -    | -       | -       |  |
| 20                                                                                                                                  | 121,0 | 121,0   | 98,0    | 98,0  | 67,0 | 67,0    | 69,0   | 69,0 | 54,5 | 54,5    | -       | -    | 49,7 | 50,0    | -    | -    | -       | -       |  |
| 21                                                                                                                                  | 117,5 | 117,5   | 95,5    | 95,5  | 65,7 | 65,7    | 66,7   | 66,7 | 53,0 | 53,0    | 35,7    | 35,7 | 48,1 | 48,4    | -    | -    | -       | -       |  |
| 22                                                                                                                                  | 114,0 | 114,0   | 93,0    | 93,0  | 64,5 | 64,5    | 64,5   | 64,5 | 51,5 | 51,5    | 34,9    | 34,9 | 46,6 | 46,8    | -    | -    | -       | -       |  |
| 23                                                                                                                                  | 109,5 | 111,0   | 90,7    | 90,7  | 63,2 | 63,2    | 62,5   | 62,5 | 50,4 | 50,4    | 34,2    | 34,2 | 45,2 | 45,4    | 36,6 | 36,7 | -       | -       |  |
| 24                                                                                                                                  | 105,0 | 108,0   | 88,5    | 88,5  | 62,0 | 62,0    | 60,5   | 60,5 | 49,3 | 49,3    | 33,5    | 33,5 | 43,9 | 44,1    | 35,6 | 35,7 | -       | -       |  |
| 26                                                                                                                                  | 94,0  | 102,0   | 84,5    | 84,5  | 60,0 | 60,0    | 57,5   | 57,5 | 46,9 | 46,9    | 32,2    | 32,2 | 41,5 | 41,7    | 33,8 | 33,9 | -       | -       |  |
| 28                                                                                                                                  | 84,0  | 97,0    | 81,0    | 81,0  | 58,0 | 58,0    | 54,5   | 54,5 | 44,7 | 44,7    | 31,0    | 31,0 | 39,3 | 39,5    | 32,2 | 32,3 | 21,6    | 21,7    |  |
| 30                                                                                                                                  | 76,0  | 92,5    | 76,5    | 77,5  | 56,5 | 56,5    | 51,5   | 51,5 | 42,7 | 42,7    | 29,9    | 29,9 | 37,3 | 37,5    | 30,8 | 30,8 | 20,8    | 20,8    |  |
| 34                                                                                                                                  | 64,0  | 84,8    | 64,5    | 72,1  | 53,5 | 53,5    | 47,1   | 47,1 | 39,3 | 39,3    | 28,0    | 28,0 | 33,8 | 33,9    | 28,2 | 28,2 | 19,2    | 19,2    |  |
| 38                                                                                                                                  | 53,9  | 78,1    | 54,3    | 67,3  | 50,1 | 50,8    | 43,1   | 43,1 | 36,4 | 36,4    | 26,3    | 26,3 | 30,7 | 30,8    | 25,8 | 25,8 | 17,9    | 17,9    |  |
| 42                                                                                                                                  | 45,7  | 72,5    | 46,0    | 63,0  | 46,5 | 48,5    | 39,7   | 39,7 | 33,8 | 33,8    | 24,8    | 24,8 | 28,1 | 28,2    | 23,8 | 23,8 | 16,7    | 16,7    |  |
| 46                                                                                                                                  | 39,7  | 68,1    | 40,0    | 59,6  | 40,3 | 46,7    | 37,0   | 37,0 | 31,8 | 31,8    | 23,6    | 23,6 | 26,2 | 26,2    | 22,2 | 22,2 | 15,7    | 15,7    |  |
| 50                                                                                                                                  | 34,4  | 64,3    | 34,7    | 56,8  | 34,9 | 45,3    | 34,6   | 34,6 | 29,9 | 29,9    | 22,5    | 22,5 | 24,4 | 24,4    | 20,7 | 20,7 | 14,8    | 14,8    |  |
| 52                                                                                                                                  | 32,2  | 62,6    | 32,4    | 55,6  | 32,5 | 44,7    | 33,5   | 33,5 | 29,1 | 29,1    | 22,0    | 22,0 | 23,5 | 23,5    | 20,0 | 20,0 | 14,4    | 14,4    |  |
| 54                                                                                                                                  | 30,0  | 61,0    | 30,2    | 54,5  | -    | -       | 32,4   | 32,4 | 28,3 | 28,3    | 21,6    | 21,6 | 22,7 | 22,7    | 19,4 | 19,4 | 14,0    | 14,0    |  |
| 58                                                                                                                                  | 26,2  | 58,3    | 26,3    | 52,5  | -    | -       | 28,8   | 30,6 | 26,9 | 26,9    | 20,8    | 20,8 | 21,3 | 21,3    | 18,2 | 18,2 | 13,3    | 13,3    |  |
| 60                                                                                                                                  | 24,4  | 57,0    | -       | -     | -    | -       | 27,0   | 29,8 | 26,3 | 26,3    | 20,5    | 20,5 | 20,6 | 20,6    | 17,7 | 17,7 | 13,0    | 13,0    |  |
| 62                                                                                                                                  | -     | -       | -       | -     | -    | -       | 25,4   | 29,1 | 25,0 | 25,8    | 20,2    | 20,2 | 20,0 | 20,0    | 17,2 | 17,2 | 12,7    | 12,7    |  |
| 64                                                                                                                                  | -     | -       | -       | -     | -    | -       | 23,8   | 28,4 | 23,8 | 25,3    | 20,0    | 20,0 | 19,4 | 19,4    | 16,8 | 16,8 | 12,4    | 12,4    |  |
| 66                                                                                                                                  | -     | -       | -       | -     | -    | -       | 22,3   | 27,8 | 22,6 | 24,8    | -       | -    | 18,9 | 18,9    | 16,4 | 16,4 | 12,2    | 12,2    |  |
| 70                                                                                                                                  | -     | -       | -       | -     | -    | -       | 19,7   | 26,7 | 19,9 | 24,1    | -       | -    | 17,9 | 17,9    | 15,6 | 15,6 | 11,8    | 11,8    |  |
| 72                                                                                                                                  | -     | -       | -       | -     | -    | -       | 18,5   | 26,2 | -    | -       | -       | -    | 17,4 | 17,4    | 15,3 | 15,3 | 11,6    | 11,6    |  |
| 74                                                                                                                                  | -     | -       | -       | -     | -    | -       | -      | -    | -    | -       | -       | -    | 17,0 | 17,0    | 15,0 | 15,0 | 11,4    | 11,4    |  |
| 75                                                                                                                                  | -     | -       | -       | -     | -    | -       | -      | -    | -    | -       | -       | -    | 16,8 | 16,8    | 14,8 | 14,8 | 11,4    | 11,4    |  |
| 78                                                                                                                                  | -     | -       | -       | -     | -    | -       | -      | -    | -    | -       | -       | -    | 16,3 | 16,3    | 14,4 | 14,4 | -       | -       |  |
| 81                                                                                                                                  | -     | -       | -       | -     | -    | -       | -      | -    | -    | -       | -       | -    | 15,1 | 15,8    | 14,1 | 14,1 | -       | -       |  |
| 82                                                                                                                                  | -     | -       | -       | -     | -    | -       | -      | -    | -    | -       | -       | -    | 14,7 | 15,7    | -    | -    | -       | -       |  |
| 84                                                                                                                                  | -     | -       | -       | -     | -    | -       | -      | -    | -    | -       | -       | -    | 14,0 | 15,4    | -    | -    | -       | -       |  |
| <div><div></div><div>0 t</div><div>65 t</div><div>125 t</div><div>165 t</div><div>205 t</div><div>265 t</div><div>325 t</div></div> |       |         |         |       |      |         |        |      |      |         |         |      |      |         |      |      |         |         |  |



0 t 65 t 125 t 165 t 205 t 265 t 325 t

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |       |         |  11-19 m |         |      |         |  8,40 m |         |      |         |  9.8 m/s |         |      |         | 360° |         | EN13000 |         |
|------------------------------------------------------------------------------------------------|-------|---------|-------------------------------------------------------------------------------------------|---------|------|---------|------------------------------------------------------------------------------------------|---------|------|---------|--------------------------------------------------------------------------------------------|---------|------|---------|------|---------|---------|---------|
| 60 m                                                                                           |       |         |                                                                                           |         |      |         |                                                                                          |         |      |         |                                                                                            |         |      |         |      |         |         |         |
| SSL+LF_1                                                                                       |       |         |                                                                                           |         |      |         |                                                                                          |         |      |         |                                                                                            |         |      |         |      |         |         |         |
| 12 m                                                                                           |       |         |                                                                                           |         |      | 24 m    |                                                                                          |         |      |         |                                                                                            | 36 m    |      |         |      |         |         |         |
|               | 0 t   | 0t-325t | 0 t                                                                                       | 0t-325t | 0 t  | 0t-325t | 0 t                                                                                      | 0t-325t | 0 t  | 0t-325t | 0 t                                                                                        | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t     | 0t-325t |
|               | 15°   |         | 20°                                                                                       |         | 30°  |         | 15°                                                                                      |         | 20°  |         | 30°                                                                                        |         | 15°  |         | 20°  |         | 30°     |         |
| m                                                                                              | t     | t       | t                                                                                         | t       | t    | t       | t                                                                                        | t       | t    | t       | t                                                                                          | t       | t    | t       | t    | t       | t       | t       |
| 12                                                                                             | 167,0 | 167,0   | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -       | -       |
| 13                                                                                             | 161,0 | 161,0   | 123,0                                                                                     | 123,0   | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -       | -       |
| 14                                                                                             | 155,0 | 155,0   | 119,0                                                                                     | 119,0   | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -       | -       |
| 15                                                                                             | 149,5 | 149,5   | 115,5                                                                                     | 115,5   | 75,5 | 75,5    | -                                                                                        | -       | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -       | -       |
| 16                                                                                             | 144,0 | 144,0   | 112,0                                                                                     | 112,0   | 73,5 | 73,5    | 81,0                                                                                     | 81,0    | -    | -       | -                                                                                          | -       | -    | -       | -    | -       | -       | -       |
| 18                                                                                             | 134,0 | 134,0   | 106,0                                                                                     | 106,0   | 71,0 | 71,0    | 75,5                                                                                     | 75,5    | 59,0 | 59,0    | -                                                                                          | -       | -    | -       | -    | -       | -       | -       |
| 20                                                                                             | 126,0 | 126,0   | 100,0                                                                                     | 100,0   | 68,0 | 68,0    | 70,5                                                                                     | 70,5    | 55,5 | 55,5    | -                                                                                          | -       | 50,0 | 50,5    | -    | -       | -       | -       |
| 22                                                                                             | 113,0 | 119,0   | 96,0                                                                                      | 96,0    | 65,5 | 65,5    | 66,5                                                                                     | 66,5    | 53,0 | 53,0    | 35,2                                                                                       | 35,2    | 47,2 | 47,5    | -    | -       | -       | -       |
| 23                                                                                             | 107,5 | 115,5   | 93,7                                                                                      | 93,7    | 64,5 | 64,5    | 64,5                                                                                     | 64,5    | 51,5 | 51,5    | 34,5                                                                                       | 34,5    | 45,9 | 46,1    | 36,9 | 37,0    | -       | -       |
| 24                                                                                             | 102,0 | 112,0   | 91,5                                                                                      | 91,5    | 63,5 | 63,5    | 62,5                                                                                     | 62,5    | 50,0 | 50,0    | 33,8                                                                                       | 33,8    | 44,6 | 44,8    | 35,9 | 36,1    | -       | -       |
| 26                                                                                             | 92,5  | 107,0   | 87,5                                                                                      | 87,5    | 61,5 | 61,5    | 59,5                                                                                     | 59,5    | 48,0 | 48,0    | 32,6                                                                                       | 32,6    | 42,2 | 42,5    | 34,2 | 34,3    | -       | -       |
| 28                                                                                             | 83,0  | 101,0   | 83,5                                                                                      | 84,0    | 59,5 | 59,5    | 56,5                                                                                     | 56,5    | 45,9 | 45,9    | 31,5                                                                                       | 31,5    | 40,2 | 40,4    | 32,7 | 32,8    | -       | -       |
| 29                                                                                             | 78,7  | 99,0    | 79,5                                                                                      | 82,2    | 58,5 | 58,5    | 55,0                                                                                     | 55,0    | 44,9 | 44,9    | 30,9                                                                                       | 30,9    | 39,2 | 39,4    | 32,0 | 32,1    | 21,3    | 21,3    |
| 30                                                                                             | 74,5  | 97,0    | 75,5                                                                                      | 80,5    | 57,5 | 57,5    | 53,5                                                                                     | 53,5    | 44,0 | 44,0    | 30,4                                                                                       | 30,4    | 38,2 | 38,4    | 31,3 | 31,4    | 20,9    | 20,9    |
| 34                                                                                             | 62,5  | 89,3    | 63,1                                                                                      | 75,1    | 54,5 | 54,5    | 49,1                                                                                     | 49,1    | 40,6 | 40,6    | 28,5                                                                                       | 28,5    | 34,8 | 34,9    | 28,7 | 28,8    | 19,5    | 19,5    |
| 38                                                                                             | 52,4  | 82,5    | 52,8                                                                                      | 70,3    | 50,3 | 51,9    | 45,1                                                                                     | 45,1    | 37,7 | 37,7    | 26,8                                                                                       | 26,8    | 31,7 | 31,8    | 26,5 | 26,6    | 18,2    | 18,2    |
| 42                                                                                             | 44,2  | 76,5    | 44,5                                                                                      | 66,0    | 45,1 | 49,9    | 41,6                                                                                     | 41,6    | 35,1 | 35,1    | 25,4                                                                                       | 25,4    | 29,0 | 29,1    | 24,5 | 24,6    | 17,0    | 17,0    |
| 46                                                                                             | 38,2  | 71,8    | 38,5                                                                                      | 62,3    | 38,9 | 48,0    | 38,8                                                                                     | 38,8    | 33,0 | 33,0    | 24,2                                                                                       | 24,2    | 27,0 | 27,1    | 22,9 | 22,9    | 16,0    | 16,0    |
| 50                                                                                             | 32,8  | 67,6    | 33,1                                                                                      | 59,1    | 33,5 | 46,4    | 35,2                                                                                     | 36,2    | 31,1 | 31,1    | 23,1                                                                                       | 23,1    | 25,3 | 25,3    | 21,4 | 21,4    | 15,2    | 15,2    |
| 54                                                                                             | 28,1  | 64,0    | 28,3                                                                                      | 56,5    | 28,7 | 45,1    | 31,0                                                                                     | 34,0    | 29,4 | 29,4    | 22,2                                                                                       | 22,2    | 23,7 | 23,7    | 20,1 | 20,1    | 14,4    | 14,4    |
| 56                                                                                             | 26,2  | 62,5    | 26,4                                                                                      | 55,5    | 26,6 | 44,5    | 29,1                                                                                     | 33,1    | 28,1 | 28,7    | 21,8                                                                                       | 21,8    | 23,0 | 23,0    | 19,5 | 19,5    | 14,0    | 14,0    |
| 58                                                                                             | 24,3  | 61,0    | 24,5                                                                                      | 54,5    | -    | -       | 27,2                                                                                     | 32,2    | 26,9 | 28,0    | 21,4                                                                                       | 21,4    | 22,3 | 22,3    | 18,9 | 18,9    | 13,7    | 13,7    |
| 62                                                                                             | 21,0  | 58,5    | 21,1                                                                                      | 52,8    | -    | -       | 23,7                                                                                     | 30,5    | 24,1 | 26,8    | 20,7                                                                                       | 20,7    | 21,0 | 21,0    | 17,9 | 17,9    | 13,1    | 13,1    |
| 63                                                                                             | 20,3  | 58,0    | 20,3                                                                                      | 52,5    | -    | -       | 22,9                                                                                     | 30,2    | 23,3 | 26,5    | 20,6                                                                                       | 20,6    | 20,7 | 20,7    | 17,7 | 17,7    | 13,0    | 13,0    |
| 66                                                                                             | 18,1  | 56,5    | -                                                                                         | -       | -    | -       | 20,6                                                                                     | 29,1    | 20,9 | 25,7    | 20,2                                                                                       | 20,2    | 19,8 | 19,8    | 17,0 | 17,0    | 12,6    | 12,6    |
| 68                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | 19,3                                                                                     | 28,5    | 19,6 | 25,2    | 19,9                                                                                       | 19,9    | 19,3 | 19,3    | 16,6 | 16,6    | 12,3    | 12,3    |
| 70                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | 18,0                                                                                     | 27,9    | 18,3 | 24,8    | -                                                                                          | -       | 18,8 | 18,8    | 16,2 | 16,2    | 12,1    | 12,1    |
| 74                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | 15,7                                                                                     | 26,8    | 15,8 | 24,1    | -                                                                                          | -       | 17,3 | 17,9    | 15,6 | 15,6    | 11,7    | 11,7    |
| 75                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | 15,1                                                                                     | 26,6    | 15,3 | 24,0    | -                                                                                          | -       | 16,8 | 17,7    | 15,4 | 15,4    | 11,6    | 11,6    |
| 77                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | 14,1                                                                                     | 26,2    | -    | -       | -                                                                                          | -       | 15,8 | 17,3    | 15,1 | 15,1    | 11,4    | 11,4    |
| 78                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | 15,3 | 17,1    | 15,0 | 15,0    | 11,4    | 11,4    |
| 80                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | 14,3 | 16,7    | 14,2 | 14,7    | 11,3    | 11,3    |
| 82                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | 13,3 | 16,4    | 13,4 | 14,4    | -       | -       |
| 86                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | 11,6 | 15,8    | 11,8 | 14,0    | -       | -       |
| 89                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                          | -       | 10,4 | 15,4    | -    | -       | -       | -       |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|--|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
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| 165 t + 50 t |       | 11-19 m |         | 8,40 m   |         | 9.8 m/s |         | 360° |         | EN13000 |         |
|--------------|-------|---------|---------|----------|---------|---------|---------|------|---------|---------|---------|
|              |       | 66 m    |         | SSL+LF_1 |         |         |         |      |         |         |         |
|              |       | 12 m    |         | 24 m     |         | 36 m    |         |      |         |         |         |
|              |       | 0 t     | 0t-325t | 0 t      | 0t-325t | 0 t     | 0t-325t | 0 t  | 0t-325t | 0 t     | 0t-325t |
|              |       | 15°     | 20°     | 30°      | 15°     | 20°     | 30°     | 15°  | 20°     | 30°     |         |
| m            | t     | t       | t       | t        | t       | t       | t       | t    | t       | t       | t       |
| 13           | 164,0 | 164,0   | -       | -        | -       | -       | -       | -    | -       | -       | -       |
| 14           | 158,0 | 158,0   | 121,0   | 121,0    | -       | -       | -       | -    | -       | -       | -       |
| 16           | 148,0 | 148,0   | 114,0   | 114,0    | 74,5    | 74,5    | -       | -    | -       | -       | -       |
| 17           | 142,0 | 143,5   | 111,0   | 111,0    | 73,0    | 73,0    | 79,5    | 79,5 | -       | -       | -       |
| 18           | 136,0 | 139,0   | 108,0   | 108,0    | 71,5    | 71,5    | 77,0    | 77,0 | -       | -       | -       |
| 19           | 128,5 | 134,5   | 105,5   | 105,5    | 70,2    | 70,2    | 74,7    | 74,7 | 58,0    | 58,0    | -       |
| 20           | 121,0 | 130,0   | 103,0   | 103,0    | 69,0    | 69,0    | 72,5    | 72,5 | 56,5    | 56,5    | -       |
| 21           | 115,0 | 126,5   | 100,7   | 100,7    | 68,0    | 68,0    | 70,2    | 70,2 | 55,0    | 55,0    | -       |
| 22           | 109,0 | 123,0   | 98,5    | 98,5     | 67,0    | 67,0    | 68,0    | 68,0 | 53,5    | 53,5    | -       |
| 23           | 104,0 | 120,0   | 96,2    | 96,2     | 65,7    | 65,7    | 66,2    | 66,2 | 52,2    | 52,2    | 34,8    |
| 24           | 99,0  | 117,0   | 94,0    | 94,0     | 64,5    | 64,5    | 64,5    | 64,5 | 51,0    | 51,0    | 34,1    |
| 26           | 90,0  | 111,0   | 90,5    | 90,5     | 62,5    | 62,5    | 61,0    | 61,0 | 49,1    | 49,1    | 33,0    |
| 28           | 82,0  | 106,0   | 83,0    | 86,5     | 60,5    | 60,5    | 58,0    | 58,0 | 47,0    | 47,0    | 31,9    |
| 30           | 74,0  | 101,0   | 74,5    | 83,5     | 59,0    | 59,0    | 55,5    | 55,5 | 45,1    | 45,1    | 30,8    |
| 34           | 61,6  | 93,3    | 62,1    | 77,8     | 56,0    | 56,0    | 50,9    | 50,9 | 41,8    | 41,8    | 29,0    |
| 38           | 51,4  | 86,5    | 51,9    | 72,8     | 51,1    | 53,3    | 46,9    | 46,9 | 38,9    | 38,9    | 27,4    |
| 42           | 43,3  | 80,5    | 43,7    | 68,5     | 44,4    | 51,0    | 43,3    | 43,3 | 36,3    | 36,3    | 26,0    |
| 46           | 37,3  | 75,5    | 37,6    | 64,8     | 38,2    | 49,2    | 39,2    | 40,4 | 34,1    | 34,1    | 24,8    |
| 50           | 31,8  | 71,0    | 32,1    | 61,6     | 32,6    | 47,5    | 34,8    | 37,8 | 32,2    | 32,2    | 23,7    |
| 54           | 27,0  | 67,0    | 27,3    | 59,0     | 27,7    | 46,1    | 30,2    | 35,6 | 30,5    | 30,5    | 22,7    |
| 58           | 23,2  | 64,0    | 23,5    | 56,6     | 23,8    | 44,9    | 26,2    | 33,6 | 26,7    | 29,1    | 21,9    |
| 61           | 20,6  | 61,9    | 20,8    | 55,0     | 21,1    | 44,2    | 23,5    | 32,3 | 24,0    | 28,1    | 21,3    |
| 62           | 19,9  | 61,3    | 20,1    | 54,6     | -       | -       | 22,7    | 31,9 | 23,2    | 27,8    | 21,2    |
| 66           | 16,9  | 59,0    | 17,1    | 53,0     | -       | -       | 19,6    | 30,4 | 20,0    | 26,6    | 20,6    |
| 68           | 15,7  | 58,0    | 15,8    | 52,0     | -       | -       | 18,3    | 29,7 | 18,6    | 26,1    | 19,2    |
| 70           | 14,5  | 57,0    | -       | -        | -       | -       | 17,0    | 29,1 | 17,3    | 25,6    | 17,8    |
| 71           | 13,9  | 56,5    | -       | -        | -       | -       | 16,3    | 28,8 | 16,6    | 25,4    | 17,1    |
| 72           | -     | -       | -       | -        | -       | -       | 15,7    | 28,5 | 16,0    | 25,2    | 16,5    |
| 74           | -     | -       | -       | -        | -       | -       | 14,6    | 28,0 | 14,9    | 24,8    | -       |
| 78           | -     | -       | -       | -        | -       | -       | 12,5    | 27,0 | 12,7    | 24,2    | -       |
| 80           | -     | -       | -       | -        | -       | -       | 11,6    | 26,6 | 11,8    | 23,9    | -       |
| 82           | -     | -       | -       | -        | -       | -       | 10,7    | 26,2 | -       | -       | -       |
| 84           | -     | -       | -       | -        | -       | -       | -       | -    | -       | -       | -       |
| 86           | -     | -       | -       | -        | -       | -       | -       | -    | -       | -       | -       |
| 90           | -     | -       | -       | -        | -       | -       | -       | -    | -       | -       | -       |
| 91           | -     | -       | -       | -        | -       | -       | -       | -    | -       | -       | -       |
| 94           | -     | -       | -       | -        | -       | -       | -       | -    | -       | -       | -       |

0 t 65 t 125 t 165 t 205 t 265 t 325 t

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  165 t +  50 t            11-19 m            8,40 m            9.8 m/s           360°           EN13000         </div> |         |       |         |       |         |      |         |      |         |      |         |      |         |      |         |      |         |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------|---------|-------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|---------|------|
| 72 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |         |       |         |      |         |      |         |      |         |      |         |      |         |      |         |      |
| SSL+LF_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |         |       |         |       |         |      |         |      |         |      |         |      |         |      |         |      |         |      |
| 12 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |         |       |         |       | 24 m    |      |         |      |         | 36 m |         |      |         |      |         |      |         |      |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0t-325t | 0 t   | 0t-325t | 0 t   | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t  |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 20°     | 30°   | 15°     | 20°   | 30°     | 15°  | 20°     | 30°  | 15°     | 20°  | 30°     | 15°  | 20°     | 30°  |         |      |         |      |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t       | t     | t       | t     | t       | t    | t       | t    | t       | t    | t       | t    | t       | t    | t       | t    | t       | t    |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 167,0   | 167,0 | -       | -     | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 162,0   | 162,0 | 122,0   | 122,0 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 148,0   | 151,0 | 116,0   | 116,0 | 75,0    | 75,0 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 139,5   | 146,5 | 113,0   | 113,0 | 73,7    | 73,7 | 81,0    | 81,0 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 131,0   | 142,0 | 110,0   | 110,0 | 72,5    | 72,5 | 78,5    | 78,5 | -       | -    | -       | -    | -       | -    | -       | -    | -       | -    |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 124,0   | 138,0 | 107,5   | 107,5 | 71,2    | 71,2 | 76,2    | 76,2 | 58,5    | 58,5 | -       | -    | -       | -    | -       | -    | -       | -    |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 117,0   | 134,0 | 105,0   | 105,0 | 70,0    | 70,0 | 74,0    | 74,0 | 57,0    | 57,0 | -       | -    | -       | -    | -       | -    | -       | -    |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 111,0   | 130,5 | 103,0   | 103,0 | 68,7    | 68,7 | 72,0    | 72,0 | 55,7    | 55,7 | -       | -    | 49,5    | 49,7 | -       | -    | -       | -    |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 105,0   | 127,0 | 101,0   | 101,0 | 67,5    | 67,5 | 70,0    | 70,0 | 54,5    | 54,5 | -       | -    | 48,2    | 48,4 | -       | -    | -       | -    |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 100,0   | 124,0 | 98,5    | 98,7  | 66,5    | 66,5 | 68,0    | 68,0 | 53,2    | 53,2 | 35,0    | 35,0 | 46,9    | 47,1 | -       | -    | -       | -    |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 95,0    | 121,0 | 96,0    | 96,5  | 65,5    | 65,5 | 66,0    | 66,0 | 52,0    | 52,0 | 34,4    | 34,4 | 45,7    | 45,9 | 36,4    | 36,5 | -       | -    |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 86,5    | 115,0 | 87,5    | 93,0  | 63,5    | 63,5 | 63,0    | 63,0 | 50,0    | 50,0 | 33,3    | 33,3 | 43,4    | 43,6 | 34,8    | 34,9 | -       | -    |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 79,0    | 110,0 | 79,5    | 89,0  | 62,0    | 62,0 | 60,0    | 60,0 | 48,0    | 48,0 | 32,2    | 32,2 | 41,4    | 41,6 | 33,3    | 33,5 | -       | -    |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 72,0    | 105,0 | 73,0    | 86,0  | 60,0    | 60,0 | 57,0    | 57,0 | 46,1    | 46,1 | 31,2    | 31,2 | 39,6    | 39,8 | 32,0    | 32,1 | 20,9    | 21,0 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 60,0    | 97,0  | 60,6    | 80,3  | 57,0    | 57,0 | 52,3    | 52,3 | 42,9    | 42,9 | 29,4    | 29,4 | 36,4    | 36,5 | 29,6    | 29,8 | 19,6    | 19,7 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 49,9    | 90,0  | 50,4    | 75,3  | 51,3    | 54,3 | 48,3    | 48,3 | 40,0    | 40,0 | 27,9    | 27,9 | 33,4    | 33,5 | 27,5    | 27,7 | 18,4    | 18,5 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 41,8    | 84,0  | 42,2    | 71,0  | 43,0    | 52,0 | 45,0    | 45,0 | 37,4    | 37,4 | 26,5    | 26,5 | 30,8    | 30,9 | 25,6    | 25,7 | 17,4    | 17,5 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 35,5    | 79,0  | 35,9    | 67,3  | 36,6    | 50,2 | 38,9    | 42,0 | 35,2    | 35,2 | 25,3    | 25,3 | 28,6    | 28,7 | 24,0    | 24,1 | 16,5    | 16,5 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30,0    | 74,5  | 30,3    | 64,0  | 31,0    | 48,6 | 33,4    | 39,4 | 32,5    | 33,3 | 24,2    | 24,2 | 26,8    | 26,9 | 22,6    | 22,6 | 15,7    | 15,7 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 25,2    | 70,5  | 25,5    | 61,0  | 26,0    | 47,1 | 28,6    | 37,1 | 29,2    | 31,6 | 23,2    | 23,2 | 25,2    | 25,4 | 21,4    | 21,4 | 15,0    | 15,0 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 21,4    | 67,1  | 21,6    | 58,6  | 22,0    | 45,8 | 24,6    | 35,1 | 25,2    | 30,1 | 22,4    | 22,4 | 23,9    | 24,0 | 20,2    | 20,2 | 14,3    | 14,3 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 18,0    | 64,1  | 18,2    | 56,5  | 18,5    | 44,7 | 21,1    | 33,3 | 21,6    | 28,7 | 21,0    | 21,6 | 22,2    | 22,7 | 19,2    | 19,2 | 13,7    | 13,7 |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15,7    | 62,1  | 15,9    | 55,0  | 16,2    | 44,1 | 18,7    | 32,1 | 19,2    | 27,8 | 19,6    | 21,1 | 20,6    | 21,8 | 18,5    | 18,5 | 13,2    | 13,2 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 15,0    | 61,5  | 15,2    | 54,5  | -       | -    | 17,9    | 31,7 | 18,4    | 27,5 | 19,2    | 21,0 | 20,1    | 21,5 | 18,3    | 18,3 | 13,1    | 13,1 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 12,5    | 59,1  | 12,7    | 53,1  | -       | -    | 15,3    | 30,3 | 15,7    | 26,5 | 16,4    | 20,4 | 17,4    | 20,4 | 17,2    | 17,4 | 12,6    | 12,6 |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10,8    | 57,6  | 10,9    | 52,0  | -       | -    | 13,4    | 29,3 | 13,8    | 25,8 | 14,4    | 20,1 | 15,5    | 19,6 | 16,1    | 16,8 | 12,3    | 12,3 |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10,3    | 57,2  | -       | -     | -       | -    | 12,9    | 29,0 | 13,3    | 25,6 | 13,8    | 20,0 | 14,9    | 19,4 | 15,5    | 16,6 | 12,2    | 12,2 |
| 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9,3     | 56,5  | -       | -     | -       | -    | 11,8    | 28,5 | 12,2    | 25,2 | 12,6    | 19,8 | 13,8    | 18,9 | 14,3    | 16,3 | 12,0    | 12,0 |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | 11,3    | 28,2 | 11,6    | 25,0 | 10,9    | 19,7 | 13,2    | 18,7 | 13,7    | 16,1 | 11,9    | 11,9 |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | 10,8    | 28,0 | 11,1    | 24,8 | -       | -    | 12,7    | 18,5 | 13,2    | 16,0 | 11,9    | 11,9 |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | 8,9     | 27,0 | 9,2     | 24,2 | -       | -    | 10,8    | 17,7 | 11,2    | 15,4 | 11,3    | 11,5 |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | 7,6     | 26,4 | 7,8     | 23,8 | -       | -    | 9,4     | 17,2 | 9,8     | 14,9 | 10,5    | 11,3 |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | 7,2     | 26,3 | -       | -    | -       | -    | 9,0     | 17,0 | 9,4     | 14,8 | 10,1    | 11,3 |
| 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | 6,5     | 26,0 | -       | -    | -       | -    | 8,2     | 16,7 | 8,6     | 14,6 | 9,2     | 11,2 |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | -       | -    | -       | -    | -       | -    | 7,4     | 16,4 | 7,8     | 14,4 | -       | -    |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | -       | -    | -       | -    | -       | -    | 6,0     | 15,9 | 6,2     | 14,0 | -       | -    |
| 96                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | -       | -    | -       | -    | -       | -    | 5,3     | 15,7 | 5,5     | 13,9 | -       | -    |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | -       | -    | -       | -    | -       | -    | 4,6     | 15,5 | -       | -    | -       | -    |
| 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -       | -     | -       | -     | -       | -    | -       | -    | -       | -    | -       | -    | 4,3     | 15,4 | -       | -    | -       | -    |



0 t

65 t

125 t

165 t

205 t

265 t

325 t



# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div> <div>165 t + 50 t</div> <div>11-19 m</div> <div>8,40 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                                                                                                                                                                                                                      |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 78 m                                                                                                                                                                                                                                                                                                                                                                                 |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| SSL+LF_1                                                                                                                                                                                                                                                                                                                                                                             |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <div> <div>12 m</div> <div>24 m</div> <div>36 m</div> </div>                                                                                                                                                                                                                                                                                                                         |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> </div> |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div>                                                                                                                                                                                                                                  |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| m                                                                                                                                                                                                                                                                                                                                                                                    | t     | t     | t     | t     | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    |
| 14                                                                                                                                                                                                                                                                                                                                                                                   | 163,0 | 165,0 | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 15                                                                                                                                                                                                                                                                                                                                                                                   | 153,0 | 160,0 | 121,0 | 121,0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 16                                                                                                                                                                                                                                                                                                                                                                                   | 143,0 | 155,0 | 118,0 | 118,0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 17                                                                                                                                                                                                                                                                                                                                                                                   | 135,0 | 150,5 | 115,0 | 115,0 | 74,5 | 74,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 18                                                                                                                                                                                                                                                                                                                                                                                   | 127,0 | 146,0 | 112,0 | 112,0 | 73,0 | 73,0 | 80,0 | 80,0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 20                                                                                                                                                                                                                                                                                                                                                                                   | 113,0 | 138,0 | 107,0 | 107,0 | 70,5 | 70,5 | 75,5 | 75,5 | 58,0 | 58,0 | -    | -    | -    | -    | -    | -    | -    | -    |
| 22                                                                                                                                                                                                                                                                                                                                                                                   | 102,0 | 131,0 | 103,0 | 103,0 | 68,5 | 68,5 | 71,5 | 71,5 | 55,5 | 55,5 | -    | -    | -    | -    | -    | -    | -    | -    |
| 24                                                                                                                                                                                                                                                                                                                                                                                   | 92,0  | 124,0 | 93,0  | 99,0  | 66,5 | 66,5 | 67,5 | 67,5 | 53,0 | 53,0 | 34,6 | 34,6 | 45,9 | 46,2 | -    | -    | -    | -    |
| 25                                                                                                                                                                                                                                                                                                                                                                                   | 88,0  | 121,5 | 88,7  | 97,0  | 65,5 | 65,5 | 66,0 | 66,0 | 52,0 | 52,0 | 34,0 | 34,0 | 44,8 | 45,1 | 35,6 | 35,8 | -    | -    |
| 26                                                                                                                                                                                                                                                                                                                                                                                   | 84,0  | 119,0 | 84,5  | 95,0  | 64,5 | 64,5 | 64,5 | 64,5 | 51,0 | 51,0 | 33,5 | 33,5 | 43,8 | 44,0 | 34,9 | 35,1 | -    | -    |
| 28                                                                                                                                                                                                                                                                                                                                                                                   | 76,5  | 113,0 | 77,5  | 91,5  | 63,0 | 63,0 | 61,5 | 61,5 | 48,9 | 48,9 | 32,5 | 32,5 | 41,8 | 42,1 | 33,5 | 33,7 | -    | -    |
| 30                                                                                                                                                                                                                                                                                                                                                                                   | 70,0  | 109,0 | 71,0  | 88,5  | 61,0 | 61,0 | 58,5 | 58,5 | 47,1 | 47,1 | 31,5 | 31,5 | 40,1 | 40,3 | 32,2 | 32,4 | -    | -    |
| 31                                                                                                                                                                                                                                                                                                                                                                                   | 67,2  | 107,0 | 68,1  | 87,0  | 60,0 | 60,3 | 57,4 | 57,4 | 46,3 | 46,3 | 31,0 | 31,0 | 39,3 | 39,5 | 31,6 | 31,8 | 20,6 | 20,7 |
| 34                                                                                                                                                                                                                                                                                                                                                                                   | 59,0  | 101,0 | 59,6  | 82,8  | 57,0 | 58,3 | 54,1 | 54,1 | 43,9 | 43,9 | 29,8 | 29,8 | 36,9 | 37,1 | 30,0 | 30,1 | 19,7 | 19,8 |
| 38                                                                                                                                                                                                                                                                                                                                                                                   | 49,4  | 93,6  | 49,8  | 77,6  | 50,8 | 55,6 | 49,5 | 50,1 | 41,0 | 41,0 | 28,3 | 28,3 | 34,1 | 34,3 | 27,9 | 28,0 | 18,6 | 18,6 |
| 42                                                                                                                                                                                                                                                                                                                                                                                   | 41,2  | 87,0  | 41,6  | 73,0  | 42,4 | 53,0 | 44,6 | 46,5 | 38,4 | 38,4 | 26,9 | 26,9 | 31,5 | 31,7 | 26,1 | 26,2 | 17,6 | 17,6 |
| 46                                                                                                                                                                                                                                                                                                                                                                                   | 34,8  | 82,0  | 35,2  | 69,3  | 36,0 | 51,3 | 38,4 | 43,5 | 36,2 | 36,2 | 25,7 | 25,7 | 29,3 | 29,5 | 24,5 | 24,6 | 16,7 | 16,7 |
| 50                                                                                                                                                                                                                                                                                                                                                                                   | 29,2  | 77,3  | 29,6  | 66,0  | 30,3 | 49,7 | 32,8 | 40,9 | 32,9 | 34,3 | 24,6 | 24,6 | 27,5 | 27,6 | 23,0 | 23,1 | 15,9 | 15,9 |
| 54                                                                                                                                                                                                                                                                                                                                                                                   | 24,4  | 73,0  | 24,7  | 63,0  | 25,3 | 48,1 | 27,8 | 38,5 | 28,5 | 32,5 | 23,6 | 23,6 | 25,9 | 26,0 | 21,8 | 21,9 | 15,1 | 15,2 |
| 58                                                                                                                                                                                                                                                                                                                                                                                   | 20,6  | 69,6  | 20,8  | 60,6  | 21,3 | 46,7 | 23,8 | 36,5 | 24,5 | 31,0 | 22,8 | 22,8 | 24,6 | 24,7 | 20,8 | 20,8 | 14,5 | 14,6 |
| 62                                                                                                                                                                                                                                                                                                                                                                                   | 17,1  | 66,6  | 17,4  | 58,3  | 17,8 | 45,6 | 20,3 | 34,6 | 20,8 | 29,6 | 21,1 | 22,0 | 22,4 | 23,5 | 19,8 | 19,8 | 13,9 | 14,0 |
| 66                                                                                                                                                                                                                                                                                                                                                                                   | 14,1  | 64,0  | 14,4  | 56,0  | 14,7 | 44,6 | 17,1 | 32,9 | 17,6 | 28,4 | 18,5 | 21,4 | 19,4 | 22,3 | 18,8 | 18,8 | 13,4 | 13,4 |
| 69                                                                                                                                                                                                                                                                                                                                                                                   | 12,3  | 62,0  | 12,5  | 55,0  | 12,7 | 44,0 | 15,1 | 31,8 | 15,6 | 27,6 | 16,4 | 20,9 | 17,3 | 21,5 | 17,4 | 18,2 | 13,0 | 13,0 |
| 70                                                                                                                                                                                                                                                                                                                                                                                   | 11,7  | 61,3  | 11,8  | 54,6  | -    | -    | 14,5 | 31,5 | 14,9 | 27,3 | 15,7 | 20,8 | 16,6 | 21,2 | 16,9 | 18,0 | 12,9 | 12,9 |
| 74                                                                                                                                                                                                                                                                                                                                                                                   | 9,4   | 59,1  | 9,6   | 53,3  | -    | -    | 12,1 | 30,2 | 12,5 | 26,3 | 13,1 | 20,3 | 14,2 | 20,2 | 14,8 | 17,2 | 12,5 | 12,5 |
| 78                                                                                                                                                                                                                                                                                                                                                                                   | 7,4   | 57,5  | 7,6   | 52,0  | -    | -    | 10,0 | 29,0 | 10,3 | 25,5 | 10,9 | 19,9 | 12,0 | 19,3 | 12,5 | 16,5 | 12,1 | 12,1 |
| 81                                                                                                                                                                                                                                                                                                                                                                                   | 6,1   | 56,5  | -     | -     | -    | -    | 8,6  | 28,2 | 8,9  | 25,0 | 9,3  | 19,6 | 10,5 | 18,7 | 11,0 | 16,0 | 11,2 | 11,8 |
| 82                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -    | -    | 8,1  | 28,0 | 8,4  | 24,8 | -    | -    | 10,0 | 18,5 | 10,5 | 15,9 | 10,9 | 11,7 |
| 86                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -    | -    | 6,4  | 27,1 | 6,7  | 24,2 | -    | -    | 8,2  | 17,7 | 8,7  | 15,3 | 9,5  | 11,4 |
| 90                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -    | -    | 4,9  | 26,4 | 4,8  | 23,7 | -    | -    | 6,6  | 17,0 | 7,0  | 14,9 | 7,7  | 11,2 |
| 93                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -    | -    | 3,9  | 25,9 | -    | -    | -    | -    | 5,5  | 16,6 | 5,9  | 14,5 | 5,2  | 11,1 |
| 94                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 5,2  | 16,4 | 5,5  | 14,4 | -    | -    |
| 98                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 3,8  | 15,9 | 4,1  | 14,1 | -    | -    |
| 99                                                                                                                                                                                                                                                                                                                                                                                   | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | 3,5  | 15,8 | 3,8  | 14,0 | -    | -    |
| 101                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,6 | -    | 13,9 | -    | -    |
| 102                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,5 | -    | -    | -    | -    |
| 104                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,3 | -    | -    | -    | -    |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|--|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t                                                                                                                        |       |         | 11-19 m |       |      | 8,40 m  |      |      | 9.8 m/s |         |      | 360° |      |         | EN13000 |      |      |         |  |
|-------------------------------------------------------------------------------------------------------------------------------------|-------|---------|---------|-------|------|---------|------|------|---------|---------|------|------|------|---------|---------|------|------|---------|--|
| 84 m                                                                                                                                |       |         |         |       |      |         |      |      |         |         |      |      |      |         |         |      |      |         |  |
| SSL+LF_1                                                                                                                            |       |         |         |       |      |         |      |      |         |         |      |      |      |         |         |      |      |         |  |
| 12 m                                                                                                                                |       |         |         |       |      | 24 m    |      |      |         |         |      | 36 m |      |         |         |      |      |         |  |
| 0 t                                                                                                                                 |       | 0t-325t |         | 0 t   |      | 0t-325t |      | 0 t  |         | 0t-325t |      | 0 t  |      | 0t-325t |         | 0 t  |      | 0t-325t |  |
| 15°                                                                                                                                 |       | 20°     |         | 30°   |      | 15°     |      | 20°  |         | 30°     |      | 15°  |      | 20°     |         | 30°  |      |         |  |
| m                                                                                                                                   | t     | t       | t       | t     | t    | t       | t    | t    | t       | t       | t    | t    | t    | t       | t       | t    | t    |         |  |
| 14                                                                                                                                  | 157,0 | 167,0   | -       | -     | -    | -       | -    | -    | -       | -       | -    | -    | -    | -       | -       | -    | -    |         |  |
| 15                                                                                                                                  | 147,0 | 162,5   | 122,0   | 122,0 | -    | -       | -    | -    | -       | -       | -    | -    | -    | -       | -       | -    | -    |         |  |
| 16                                                                                                                                  | 137,0 | 158,0   | 119,0   | 119,0 | -    | -       | -    | -    | -       | -       | -    | -    | -    | -       | -       | -    | -    |         |  |
| 17                                                                                                                                  | 129,5 | 153,5   | 116,5   | 116,5 | 74,5 | 74,5    | -    | -    | -       | -       | -    | -    | -    | -       | -       | -    | -    |         |  |
| 18                                                                                                                                  | 122,0 | 149,0   | 114,0   | 114,0 | 73,5 | 73,5    | 80,5 | 81,0 | -       | -       | -    | -    | -    | -       | -       | -    | -    |         |  |
| 20                                                                                                                                  | 109,0 | 141,0   | 109,0   | 109,0 | 71,5 | 71,5    | 76,5 | 76,5 | 58,5    | 58,5    | -    | -    | -    | -       | -       | -    | -    |         |  |
| 22                                                                                                                                  | 98,0  | 134,0   | 99,0    | 105,0 | 69,0 | 69,0    | 72,5 | 72,5 | 56,0    | 56,0    | -    | -    | 48,6 | 48,9    | -       | -    | -    |         |  |
| 24                                                                                                                                  | 88,5  | 128,0   | 89,5    | 101,0 | 67,0 | 67,0    | 69,0 | 69,0 | 53,5    | 53,5    | 34,8 | 34,8 | 46,3 | 46,6    | -       | -    | -    |         |  |
| 26                                                                                                                                  | 80,5  | 122,0   | 81,5    | 97,0  | 65,5 | 65,5    | 66,0 | 66,0 | 51,5    | 51,5    | 33,7 | 33,7 | 44,2 | 44,5    | 35,1    | 35,2 | -    |         |  |
| 28                                                                                                                                  | 73,0  | 117,0   | 74,0    | 93,5  | 63,5 | 63,5    | 63,0 | 63,0 | 49,8    | 49,8    | 32,8 | 32,8 | 42,3 | 42,6    | 33,7    | 33,9 | -    |         |  |
| 30                                                                                                                                  | 67,0  | 112,0   | 68,0    | 90,5  | 62,0 | 62,0    | 60,0 | 60,0 | 48,0    | 48,0    | 31,8 | 31,8 | 40,6 | 40,9    | 32,5    | 32,6 | -    |         |  |
| 31                                                                                                                                  | 64,5  | 110,0   | 65,4    | 89,0  | 60,6 | 61,3    | 58,9 | 58,9 | 47,2    | 47,2    | 31,4 | 31,4 | 39,8 | 40,1    | 31,9    | 32,0 | 20,6 |         |  |
| 34                                                                                                                                  | 57,0  | 104,0   | 57,6    | 84,8  | 56,6 | 59,3    | 55,6 | 55,6 | 44,8    | 44,8    | 30,2 | 30,2 | 37,6 | 37,8    | 30,3    | 30,4 | 19,7 |         |  |
| 38                                                                                                                                  | 47,8  | 96,8    | 48,4    | 79,8  | 49,7 | 56,6    | 49,9 | 51,6 | 41,9    | 41,9    | 28,7 | 28,7 | 34,8 | 35,0    | 28,3    | 28,5 | 18,7 |         |  |
| 42                                                                                                                                  | 39,6  | 90,5    | 40,2    | 75,5  | 41,1 | 54,0    | 42,9 | 48,0 | 39,3    | 39,3    | 27,3 | 27,3 | 32,3 | 32,4    | 26,5    | 26,7 | 17,7 |         |  |
| 46                                                                                                                                  | 33,1  | 85,1    | 33,6    | 71,8  | 34,5 | 52,3    | 36,8 | 45,0 | 36,3    | 37,1    | 26,1 | 26,1 | 30,1 | 30,2    | 24,9    | 25,1 | 16,8 |         |  |
| 50                                                                                                                                  | 27,4  | 80,3    | 27,8    | 68,3  | 28,6 | 50,6    | 31,2 | 42,2 | 32,2    | 35,2    | 25,0 | 25,0 | 28,2 | 28,3    | 23,5    | 23,6 | 16,0 |         |  |
| 54                                                                                                                                  | 22,5  | 76,0    | 22,9    | 65,0  | 23,6 | 49,0    | 26,2 | 39,8 | 27,0    | 33,5    | 24,1 | 24,1 | 26,5 | 26,7    | 22,3    | 22,4 | 15,3 |         |  |
| 58                                                                                                                                  | 18,7  | 72,3    | 19,0    | 62,3  | 19,6 | 47,6    | 22,2 | 37,7 | 22,9    | 31,9    | 22,7 | 23,2 | 24,0 | 25,4    | 21,2    | 21,3 | 14,7 |         |  |
| 62                                                                                                                                  | 15,2  | 69,0    | 15,5    | 60,0  | 16,1 | 46,3    | 18,7 | 35,8 | 19,2    | 30,5    | 20,4 | 22,4 | 21,1 | 24,2    | 20,0    | 20,3 | 14,1 |         |  |
| 66                                                                                                                                  | 12,2  | 66,0    | 12,5    | 58,0  | 12,9 | 45,3    | 15,5 | 34,1 | 16,0    | 29,3    | 17,0 | 21,7 | 17,9 | 23,0    | 18,7    | 19,4 | 13,6 |         |  |
| 70                                                                                                                                  | 9,7   | 63,6    | 9,9     | 56,3  | 10,3 | 44,5    | 12,8 | 32,6 | 13,3    | 28,1    | 14,2 | 21,1 | 15,1 | 21,9    | 15,9    | 18,5 | 13,1 |         |  |
| 74                                                                                                                                  | 7,5   | 61,5    | 7,6     | 54,6  | 7,1  | 43,7    | 10,4 | 31,3 | 10,9    | 27,1    | 11,6 | 20,6 | 12,6 | 20,9    | 13,4    | 17,7 | 12,6 |         |  |
| 78                                                                                                                                  | 5,5   | 59,5    | 5,6     | 53,0  | -    | -       | 8,3  | 30,1 | 8,7     | 26,3    | 9,3  | 20,2 | 10,4 | 20,0    | 11,1    | 17,0 | 12,2 |         |  |
| 82                                                                                                                                  | 3,7   | 57,7    | 3,9     | 52,2  | -    | -       | 6,4  | 29,0 | 6,7     | 25,5    | 7,3  | 19,8 | 8,4  | 19,1    | 9,1     | 16,4 | 10,1 |         |  |
| 83                                                                                                                                  | -     | 57,3    | -       | 52,0  | -    | -       | 5,9  | 28,7 | 6,2     | 25,3    | 6,8  | 19,7 | 7,9  | 18,9    | 8,6     | 16,2 | 9,6  |         |  |
| 85                                                                                                                                  | -     | 56,7    | -       | -     | -    | -       | 5,1  | 28,3 | 5,4     | 24,9    | 5,9  | 19,6 | 7,1  | 18,5    | 7,6     | 15,9 | 8,6  |         |  |
| 86                                                                                                                                  | -     | 56,5    | -       | -     | -    | -       | 4,7  | 28,0 | 5,0     | 24,8    | -    | -    | 6,7  | 18,3    | 7,2     | 15,8 | 8,1  |         |  |
| 89                                                                                                                                  | -     | -       | -       | -     | -    | -       | 3,5  | 27,4 | 3,8     | 24,3    | -    | -    | 5,5  | 17,8    | 5,9     | 15,4 | 6,7  |         |  |
| 90                                                                                                                                  | -     | -       | -       | -     | -    | -       | -    | 27,2 | -       | 24,2    | -    | -    | 5,1  | 17,7    | 5,5     | 15,3 | 6,3  |         |  |
| 94                                                                                                                                  | -     | -       | -       | -     | -    | -       | -    | 26,4 | -       | 23,7    | -    | -    | 3,6  | 17,0    | 3,9     | 14,8 | 4,7  |         |  |
| 95                                                                                                                                  | -     | -       | -       | -     | -    | -       | -    | 26,2 | -       | 23,6    | -    | -    | -    | 16,8    | 3,6     | 14,7 | 4,3  |         |  |
| 97                                                                                                                                  | -     | -       | -       | -     | -    | -       | -    | 26,0 | -       | -       | -    | -    | -    | 16,5    | -       | 14,5 | 3,6  |         |  |
| 98                                                                                                                                  | -     | -       | -       | -     | -    | -       | -    | 25,9 | -       | -       | -    | -    | -    | 16,4    | -       | 14,4 | -    |         |  |
| 102                                                                                                                                 | -     | -       | -       | -     | -    | -       | -    | -    | -       | -       | -    | -    | -    | 16,0    | -       | 14,1 | -    |         |  |
| 106                                                                                                                                 | -     | -       | -       | -     | -    | -       | -    | -    | -       | -       | -    | -    | -    | 15,6    | -       | 13,8 | -    |         |  |
| 109                                                                                                                                 | -     | -       | -       | -     | -    | -       | -    | -    | -       | -       | -    | -    | -    | 15,3    | -       | -    | -    |         |  |
| <div><div></div><div>0 t</div><div>65 t</div><div>125 t</div><div>165 t</div><div>205 t</div><div>265 t</div><div>325 t</div></div> |       |         |         |       |      |         |      |      |         |         |      |      |      |         |         |      |      |         |  |



0 t 65 t 125 t 165 t 205 t 265 t 325 t

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
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| 165 t +  50 t |       |         |  11-19 m |         |      |         |  8,40 m |         |      |         |  9.8 m/s |         |      |         | 360° |         | EN13000 |         |  |  |  |  |  |
|------------------------------------------------------------------------------------------------|-------|---------|-------------------------------------------------------------------------------------------|---------|------|---------|------------------------------------------------------------------------------------------|---------|------|---------|---------------------------------------------------------------------------------------------|---------|------|---------|------|---------|---------|---------|--|--|--|--|--|
| 90 m                                                                                           |       |         |                                                                                           |         |      |         |                                                                                          |         |      |         |                                                                                             |         |      |         |      |         |         |         |  |  |  |  |  |
| SSL+LF_1                                                                                       |       |         |                                                                                           |         |      |         |                                                                                          |         |      |         |                                                                                             |         |      |         |      |         |         |         |  |  |  |  |  |
| 12 m                                                                                           |       |         |                                                                                           |         |      |         |                                                                                          | 24 m    |      |         |                                                                                             |         |      |         |      | 36 m    |         |         |  |  |  |  |  |
|               | 0 t   | 0t-325t | 0 t                                                                                       | 0t-325t | 0 t  | 0t-325t | 0 t                                                                                      | 0t-325t | 0 t  | 0t-325t | 0 t                                                                                         | 0t-325t | 0 t  | 0t-325t | 0 t  | 0t-325t | 0 t     | 0t-325t |  |  |  |  |  |
|               | 15°   |         | 20°                                                                                       |         | 30°  |         | 15°                                                                                      |         | 20°  |         | 30°                                                                                         |         | 15°  |         | 20°  |         | 30°     |         |  |  |  |  |  |
| m                                                                                              | t     | t       | t                                                                                         | t       | t    | t       | t                                                                                        | t       | t    | t       | t                                                                                           | t       | t    | t       | t    | t       | t       | t       |  |  |  |  |  |
| 15                                                                                             | 141,0 | 165,0   | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | -       | -    | -       | -       | -       |  |  |  |  |  |
| 16                                                                                             | 132,0 | 160,0   | 121,0                                                                                     | 121,0   | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | -       | -    | -       | -       | -       |  |  |  |  |  |
| 18                                                                                             | 117,0 | 152,0   | 116,0                                                                                     | 116,0   | 74,0 | 74,0    | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | -       | -    | -       | -       | -       |  |  |  |  |  |
| 19                                                                                             | 110,5 | 148,0   | 111,0                                                                                     | 113,5   | 73,0 | 73,0    | 79,5                                                                                     | 80,0    | -    | -       | -                                                                                           | -       | -    | -       | -    | -       | -       | -       |  |  |  |  |  |
| 20                                                                                             | 104,0 | 144,0   | 106,0                                                                                     | 111,0   | 72,0 | 72,0    | 77,5                                                                                     | 77,5    | -    | -       | -                                                                                           | -       | -    | -       | -    | -       | -       | -       |  |  |  |  |  |
| 21                                                                                             | 99,0  | 140,5   | 100,5                                                                                     | 109,0   | 71,0 | 71,0    | 75,7                                                                                     | 75,7    | 58,0 | 58,0    | -                                                                                           | -       | -    | -       | -    | -       | -       | -       |  |  |  |  |  |
| 22                                                                                             | 94,0  | 137,0   | 95,0                                                                                      | 107,0   | 70,0 | 70,0    | 74,0                                                                                     | 74,0    | 56,5 | 56,5    | -                                                                                           | -       | -    | -       | -    | -       | -       | -       |  |  |  |  |  |
| 23                                                                                             | 89,5  | 134,0   | 90,5                                                                                      | 105,0   | 69,0 | 69,0    | 72,2                                                                                     | 72,2    | 55,5 | 55,5    | -                                                                                           | -       | 47,7 | 48,0    | -    | -       | -       | -       |  |  |  |  |  |
| 24                                                                                             | 85,0  | 131,0   | 86,0                                                                                      | 103,0   | 68,0 | 68,0    | 70,5                                                                                     | 70,5    | 54,5 | 54,5    | -                                                                                           | -       | 46,6 | 46,9    | -    | -       | -       | -       |  |  |  |  |  |
| 25                                                                                             | 81,0  | 128,0   | 82,0                                                                                      | 101,0   | 67,0 | 67,0    | 68,7                                                                                     | 68,7    | 53,5 | 53,5    | 34,4                                                                                        | 34,4    | 45,6 | 45,9    | -    | -       | -       | -       |  |  |  |  |  |
| 26                                                                                             | 77,0  | 125,0   | 78,0                                                                                      | 99,0    | 66,0 | 66,0    | 67,0                                                                                     | 67,0    | 52,5 | 52,5    | 33,9                                                                                        | 33,9    | 44,6 | 44,9    | 35,2 | 35,4    | -       | -       |  |  |  |  |  |
| 28                                                                                             | 70,0  | 120,0   | 71,0                                                                                      | 95,5    | 64,5 | 64,5    | 64,5                                                                                     | 64,5    | 50,5 | 50,5    | 33,0                                                                                        | 33,0    | 42,8 | 43,0    | 33,9 | 34,1    | -       | -       |  |  |  |  |  |
| 30                                                                                             | 64,0  | 115,0   | 65,0                                                                                      | 92,5    | 63,0 | 63,0    | 61,5                                                                                     | 61,5    | 48,8 | 48,8    | 32,1                                                                                        | 32,1    | 41,1 | 41,3    | 32,7 | 32,9    | -       | -       |  |  |  |  |  |
| 32                                                                                             | 59,2  | 111,0   | 60,0                                                                                      | 89,6    | 59,1 | 61,5    | 58,0                                                                                     | 59,1    | 47,2 | 47,2    | 31,3                                                                                        | 31,3    | 39,6 | 39,8    | 31,6 | 31,8    | 20,3    | 20,4    |  |  |  |  |  |
| 34                                                                                             | 54,4  | 107,0   | 55,0                                                                                      | 86,8    | 55,3 | 60,0    | 54,5                                                                                     | 56,8    | 45,6 | 45,6    | 30,5                                                                                        | 30,5    | 38,1 | 38,4    | 30,6 | 30,8    | 19,7    | 19,8    |  |  |  |  |  |
| 38                                                                                             | 45,7  | 99,8    | 46,2                                                                                      | 81,8    | 47,6 | 57,3    | 47,5                                                                                     | 52,8    | 42,8 | 42,8    | 29,0                                                                                        | 29,0    | 35,4 | 35,7    | 28,7 | 28,9    | 18,7    | 18,8    |  |  |  |  |  |
| 42                                                                                             | 38,1  | 93,5    | 38,7                                                                                      | 77,5    | 39,8 | 55,0    | 40,7                                                                                     | 49,4    | 40,2 | 40,2    | 27,6                                                                                        | 27,6    | 33,0 | 33,2    | 26,9 | 27,1    | 17,8    | 17,9    |  |  |  |  |  |
| 46                                                                                             | 31,5  | 88,1    | 32,1                                                                                      | 73,8    | 33,0 | 53,0    | 35,2                                                                                     | 46,4    | 35,6 | 38,0    | 26,4                                                                                        | 26,4    | 30,8 | 31,0    | 25,3 | 25,5    | 17,0    | 17,0    |  |  |  |  |  |
| 50                                                                                             | 25,8  | 83,3    | 26,3                                                                                      | 70,3    | 27,1 | 51,3    | 29,9                                                                                     | 43,6    | 30,8 | 36,1    | 25,4                                                                                        | 25,4    | 28,9 | 29,1    | 23,9 | 24,1    | 16,2    | 16,2    |  |  |  |  |  |
| 54                                                                                             | 20,9  | 79,0    | 21,4                                                                                      | 67,0    | 22,1 | 49,9    | 24,8                                                                                     | 41,1    | 25,7 | 34,3    | 24,4                                                                                        | 24,4    | 27,2 | 27,4    | 22,7 | 22,8    | 15,5    | 15,5    |  |  |  |  |  |
| 58                                                                                             | 17,1  | 75,3    | 17,4                                                                                      | 64,3    | 18,1 | 48,5    | 20,8                                                                                     | 39,0    | 21,5 | 32,7    | 22,0                                                                                        | 23,6    | 23,4 | 26,0    | 21,6 | 21,8    | 14,9    | 14,9    |  |  |  |  |  |
| 62                                                                                             | 13,6  | 71,8    | 13,9                                                                                      | 61,8    | 14,5 | 47,2    | 17,2                                                                                     | 37,1    | 17,8 | 31,3    | 19,1                                                                                        | 22,8    | 19,8 | 24,7    | 19,9 | 20,8    | 14,3    | 14,3    |  |  |  |  |  |
| 66                                                                                             | 10,6  | 68,5    | 10,9                                                                                      | 59,5    | 11,4 | 46,0    | 14,0                                                                                     | 35,3    | 14,6 | 30,1    | 15,7                                                                                        | 22,1    | 16,6 | 23,6    | 17,5 | 19,9    | 13,8    | 13,9    |  |  |  |  |  |
| 70                                                                                             | 8,1   | 65,8    | 8,3                                                                                       | 57,8    | 8,8  | 45,0    | 11,4                                                                                     | 33,7    | 11,9 | 28,9    | 12,9                                                                                        | 21,5    | 13,8 | 22,6    | 14,7 | 19,0    | 13,3    | 13,4    |  |  |  |  |  |
| 74                                                                                             | 5,8   | 63,5    | 6,0                                                                                       | 56,2    | 6,4  | 44,2    | 9,0                                                                                      | 32,3    | 9,4  | 27,9    | 10,3                                                                                        | 20,9    | 11,3 | 21,6    | 12,1 | 18,2    | 12,4    | 12,9    |  |  |  |  |  |
| 78                                                                                             | 3,8   | 61,5    | 4,0                                                                                       | 54,5    | 4,3  | 43,6    | 6,8                                                                                      | 31,1    | 7,2  | 27,0    | 8,0                                                                                         | 20,5    | 9,0  | 20,7    | 9,8  | 17,5    | 11,0    | 12,5    |  |  |  |  |  |
| 82                                                                                             | -     | 59,5    | -                                                                                         | 53,1    | -    | -       | 4,9                                                                                      | 30,0    | 5,2  | 26,2    | 6,0                                                                                         | 20,1    | 7,0  | 19,8    | 7,8  | 16,8    | 8,9     | 12,1    |  |  |  |  |  |
| 85                                                                                             | -     | 58,1    | -                                                                                         | 52,2    | -    | -       | 3,6                                                                                      | 29,2    | 3,9  | 25,6    | 4,5                                                                                         | 19,8    | 5,6  | 19,2    | 6,3  | 16,3    | 7,4     | 11,9    |  |  |  |  |  |
| 86                                                                                             | -     | 57,8    | -                                                                                         | 52,0    | -    | -       | -                                                                                        | 28,9    | -    | 25,4    | 4,0                                                                                         | 19,7    | 5,2  | 19,0    | 5,9  | 16,2    | 6,9     | 11,8    |  |  |  |  |  |
| 87                                                                                             | -     | 57,5    | -                                                                                         | 51,7    | -    | -       | -                                                                                        | 28,7    | -    | 25,3    | 3,6                                                                                         | 19,6    | 4,8  | 18,8    | 5,5  | 16,1    | 6,5     | 11,8    |  |  |  |  |  |
| 88                                                                                             | -     | 57,1    | -                                                                                         | 51,5    | -    | -       | -                                                                                        | 28,4    | -    | 25,1    | -                                                                                           | 19,5    | 4,4  | 18,6    | 5,0  | 16,0    | 6,0     | 11,7    |  |  |  |  |  |
| 90                                                                                             | -     | 56,5    | -                                                                                         | -       | -    | -       | -                                                                                        | 28,0    | -    | 24,8    | -                                                                                           | 19,4    | 3,6  | 18,3    | 4,2  | 15,7    | 5,1     | 11,6    |  |  |  |  |  |
| 91                                                                                             | -     | 56,0    | -                                                                                         | -       | -    | -       | -                                                                                        | 27,8    | -    | 24,6    | -                                                                                           | -       | -    | 18,1    | 3,8  | 15,6    | 4,7     | 11,5    |  |  |  |  |  |
| 93                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | 27,4    | -    | 24,4    | -                                                                                           | -       | -    | 17,8    | -    | 15,3    | 3,9     | 11,4    |  |  |  |  |  |
| 94                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | 27,2    | -    | 24,2    | -                                                                                           | -       | -    | 17,6    | -    | 15,2    | -       | 11,3    |  |  |  |  |  |
| 98                                                                                             | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | 26,5    | -    | 23,8    | -                                                                                           | -       | -    | 17,0    | -    | 14,8    | -       | 11,1    |  |  |  |  |  |
| 100                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | 26,2    | -    | 23,6    | -                                                                                           | -       | -    | 16,7    | -    | 14,6    | -       | 11,0    |  |  |  |  |  |
| 101                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | 26,0    | -    | -       | -                                                                                           | -       | -    | 16,6    | -    | 14,5    | -       | 11,0    |  |  |  |  |  |
| 102                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | 25,9    | -    | -       | -                                                                                           | -       | -    | 16,5    | -    | 14,4    | -       | -       |  |  |  |  |  |
| 103                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | 25,8    | -    | -       | -                                                                                           | -       | -    | 16,3    | -    | 14,3    | -       | -       |  |  |  |  |  |
| 106                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | 16,0    | -    | 14,0    | -       | -       |  |  |  |  |  |
| 110                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | 15,6    | -    | 13,7    | -       | -       |  |  |  |  |  |
| 111                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | 15,5    | -    | 13,7    | -       | -       |  |  |  |  |  |
| 114                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | 15,3    | -    | -       | -       | -       |  |  |  |  |  |
| 115                                                                                            | -     | -       | -                                                                                         | -       | -    | -       | -                                                                                        | -       | -    | -       | -                                                                                           | -       | -    | 15,2    | -    | -       | -       | -       |  |  |  |  |  |

|  |     |      |       |       |       |       |       |
|--|-----|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|--|-----|------|-------|-------|-------|-------|-------|

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |                                                                                   |                                                                                   |  11-19 m |                                                                                   |                                                                                   |  8,40 m |                                                                                   |                                                                                   |  9.8 m/s |                                                                                   |                                                                                   | 360°                                                                              |                                                                                   | EN13000                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| 96 m                                                                                           |                                                                                   |                                                                                   |                                                                                           |                                                                                   |                                                                                   |                                                                                          |                                                                                   |                                                                                   |                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| SSL+LF_1                                                                                       |                                                                                   |                                                                                   |                                                                                           |                                                                                   |                                                                                   |                                                                                          |                                                                                   |                                                                                   |                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |
| 12 m                                                                                           |                                                                                   |                                                                                   |                                                                                           |                                                                                   |                                                                                   |                                                                                          |                                                                                   | 24 m                                                                              |                                                                                            |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   |                                                                                   | 36 m                                                                              |                                                                                   |                                                                                   |                                                                                   |
|               |  |  |          |  |  |         |  |  |           |  |  |  |  |  |  |  |  |  |  |
| 0 t                                                                                            | 0t-325t                                                                           | 0 t                                                                               | 0t-325t                                                                                   | 0 t                                                                               | 0t-325t                                                                           | 0 t                                                                                      | 0t-325t                                                                           | 0 t                                                                               | 0t-325t                                                                                    | 0 t                                                                               | 0t-325t                                                                           | 0 t                                                                               | 0t-325t                                                                           | 0 t                                                                               | 0t-325t                                                                           | 0 t                                                                               | 0t-325t                                                                           | 0 t                                                                               | 0t-325t                                                                           |
|               |  | 15°                                                                               |                                                                                           | 20°                                                                               |                                                                                   | 30°                                                                                      |                                                                                   | 15°                                                                               |                                                                                            | 20°                                                                               |                                                                                   | 30°                                                                               |                                                                                   | 15°                                                                               |                                                                                   | 20°                                                                               |                                                                                   | 30°                                                                               |                                                                                   |
| m                                                                                              | t                                                                                 | t                                                                                 | t                                                                                         | t                                                                                 | t                                                                                 | t                                                                                        | t                                                                                 | t                                                                                 | t                                                                                          | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                 |
| 15                                                                                             | 135,0                                                                             | 167,0                                                                             | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 16                                                                                             | 127,0                                                                             | 163,0                                                                             | 122,0                                                                                     | 122,0                                                                             | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 18                                                                                             | 112,0                                                                             | 155,0                                                                             | 114,0                                                                                     | 117,0                                                                             | 74,5                                                                              | 74,5                                                                                     | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 19                                                                                             | 106,0                                                                             | 151,0                                                                             | 108,0                                                                                     | 114,5                                                                             | 73,5                                                                              | 73,5                                                                                     | 80,0                                                                              | 80,5                                                                              | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 20                                                                                             | 100,0                                                                             | 147,0                                                                             | 102,0                                                                                     | 112,0                                                                             | 72,5                                                                              | 72,5                                                                                     | 78,0                                                                              | 78,5                                                                              | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 21                                                                                             | 95,0                                                                              | 143,5                                                                             | 96,7                                                                                      | 110,0                                                                             | 71,5                                                                              | 71,5                                                                                     | 76,2                                                                              | 76,7                                                                              | 58,5                                                                                       | 58,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 22                                                                                             | 90,0                                                                              | 140,0                                                                             | 91,5                                                                                      | 108,0                                                                             | 70,5                                                                              | 70,5                                                                                     | 74,5                                                                              | 75,0                                                                              | 57,0                                                                                       | 57,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 23                                                                                             | 85,7                                                                              | 137,0                                                                             | 87,0                                                                                      | 106,0                                                                             | 69,5                                                                              | 69,5                                                                                     | 73,0                                                                              | 73,2                                                                              | 56,0                                                                                       | 56,0                                                                              | -                                                                                 | -                                                                                 | 48,0                                                                              | 48,3                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 24                                                                                             | 81,5                                                                              | 134,0                                                                             | 82,5                                                                                      | 104,0                                                                             | 68,5                                                                              | 68,5                                                                                     | 71,5                                                                              | 71,5                                                                              | 55,0                                                                                       | 55,0                                                                              | -                                                                                 | -                                                                                 | 46,9                                                                              | 47,3                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 25                                                                                             | 77,5                                                                              | 131,0                                                                             | 78,5                                                                                      | 102,5                                                                             | 67,7                                                                              | 67,7                                                                                     | 70,0                                                                              | 70,0                                                                              | 54,0                                                                                       | 54,0                                                                              | 34,6                                                                              | 34,6                                                                              | 45,9                                                                              | 46,3                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 26                                                                                             | 73,5                                                                              | 128,0                                                                             | 74,5                                                                                      | 101,0                                                                             | 67,0                                                                              | 67,0                                                                                     | 68,5                                                                              | 68,5                                                                              | 53,0                                                                                       | 53,0                                                                              | 34,1                                                                              | 34,1                                                                              | 45,0                                                                              | 45,3                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 27                                                                                             | 70,2                                                                              | 125,5                                                                             | 71,2                                                                                      | 99,2                                                                              | 66,0                                                                              | 66,0                                                                                     | 67,0                                                                              | 67,0                                                                              | 52,0                                                                                       | 52,0                                                                              | 33,6                                                                              | 33,6                                                                              | 44,1                                                                              | 44,4                                                                              | 34,7                                                                              | 34,9                                                                              | -                                                                                 | -                                                                                 | -                                                                                 |
| 28                                                                                             | 67,0                                                                              | 123,0                                                                             | 68,0                                                                                      | 97,5                                                                              | 65,0                                                                              | 65,0                                                                                     | 65,5                                                                              | 65,5                                                                              | 51,0                                                                                       | 51,0                                                                              | 33,2                                                                              | 33,2                                                                              | 43,2                                                                              | 43,5                                                                              | 34,1                                                                              | 34,3                                                                              | -                                                                                 | -                                                                                 | -                                                                                 |
| 30                                                                                             | 61,0                                                                              | 118,0                                                                             | 62,0                                                                                      | 94,5                                                                              | 63,5                                                                              | 63,5                                                                                     | 62,5                                                                              | 63,0                                                                              | 49,5                                                                                       | 49,5                                                                              | 32,3                                                                              | 32,3                                                                              | 41,5                                                                              | 41,8                                                                              | 33,0                                                                              | 33,1                                                                              | -                                                                                 | -                                                                                 | -                                                                                 |
| 32                                                                                             | 56,2                                                                              | 114,0                                                                             | 57,1                                                                                      | 91,6                                                                              | 58,6                                                                              | 62,1                                                                                     | 57,9                                                                              | 60,6                                                                              | 47,9                                                                                       | 47,9                                                                              | 31,5                                                                              | 31,5                                                                              | 40,1                                                                              | 40,3                                                                              | 31,9                                                                              | 32,1                                                                              | 20,3                                                                              | 20,4                                                                              | -                                                                                 |
| 34                                                                                             | 51,5                                                                              | 110,0                                                                             | 52,3                                                                                      | 88,8                                                                              | 53,7                                                                              | 60,8                                                                                     | 53,3                                                                              | 58,3                                                                              | 46,4                                                                                       | 46,4                                                                              | 30,7                                                                              | 30,7                                                                              | 38,7                                                                              | 38,9                                                                              | 30,9                                                                              | 31,1                                                                              | 19,8                                                                              | 19,8                                                                              | -                                                                                 |
| 38                                                                                             | 43,2                                                                              | 102,8                                                                             | 43,9                                                                                      | 83,8                                                                              | 45,2                                                                              | 58,3                                                                                     | 45,3                                                                              | 54,1                                                                              | 43,1                                                                                       | 43,6                                                                              | 29,3                                                                              | 29,3                                                                              | 36,0                                                                              | 36,2                                                                              | 29,0                                                                              | 29,2                                                                              | 18,8                                                                              | 18,8                                                                              | -                                                                                 |
| 42                                                                                             | 36,2                                                                              | 96,5                                                                              | 36,8                                                                                      | 79,5                                                                              | 37,9                                                                              | 56,0                                                                                     | 38,3                                                                              | 50,5                                                                              | 39,5                                                                                       | 41,1                                                                              | 28,0                                                                              | 28,0                                                                              | 33,6                                                                              | 33,8                                                                              | 27,3                                                                              | 27,5                                                                              | 17,9                                                                              | 18,0                                                                              | -                                                                                 |
| 46                                                                                             | 29,7                                                                              | 91,1                                                                              | 30,3                                                                                      | 75,5                                                                              | 31,3                                                                              | 54,0                                                                                     | 32,8                                                                              | 47,5                                                                              | 33,9                                                                                       | 38,9                                                                              | 26,8                                                                              | 26,8                                                                              | 31,5                                                                              | 31,7                                                                              | 25,8                                                                              | 25,9                                                                              | 17,1                                                                              | 17,2                                                                              | -                                                                                 |
| 50                                                                                             | 24,0                                                                              | 86,1                                                                              | 24,6                                                                                      | 72,0                                                                              | 25,5                                                                              | 52,1                                                                                     | 27,8                                                                              | 44,8                                                                              | 28,8                                                                                       | 37,0                                                                              | 25,8                                                                              | 25,8                                                                              | 28,7                                                                              | 29,8                                                                              | 24,4                                                                              | 24,5                                                                              | 16,3                                                                              | 16,4                                                                              | -                                                                                 |
| 54                                                                                             | 19,1                                                                              | 81,5                                                                              | 19,6                                                                                      | 69,0                                                                              | 20,4                                                                              | 50,5                                                                                     | 23,2                                                                              | 42,4                                                                              | 24,1                                                                                       | 35,2                                                                              | 24,8                                                                              | 24,8                                                                              | 25,2                                                                              | 28,0                                                                              | 23,1                                                                              | 23,2                                                                              | 15,7                                                                              | 15,7                                                                              | -                                                                                 |
| 58                                                                                             | 15,2                                                                              | 77,8                                                                              | 15,6                                                                                      | 66,3                                                                              | 16,4                                                                              | 49,2                                                                                     | 19,2                                                                              | 40,2                                                                              | 20,0                                                                                       | 33,6                                                                              | 21,2                                                                              | 23,9                                                                              | 21,6                                                                              | 26,6                                                                              | 21,7                                                                              | 22,1                                                                              | 15,0                                                                              | 15,1                                                                              | -                                                                                 |
| 62                                                                                             | 11,7                                                                              | 74,3                                                                              | 12,1                                                                                      | 63,8                                                                              | 12,8                                                                              | 48,0                                                                                     | 15,5                                                                              | 38,2                                                                              | 16,3                                                                                       | 32,1                                                                              | 17,6                                                                              | 23,1                                                                              | 18,3                                                                              | 25,3                                                                              | 19,3                                                                              | 21,1                                                                              | 14,4                                                                              | 14,5                                                                              | -                                                                                 |
| 66                                                                                             | 8,7                                                                               | 71,0                                                                              | 9,0                                                                                       | 61,5                                                                              | 9,6                                                                               | 46,8                                                                                     | 12,3                                                                              | 36,4                                                                              | 13,0                                                                                       | 30,9                                                                              | 14,2                                                                              | 22,5                                                                              | 15,1                                                                              | 24,3                                                                              | 16,1                                                                              | 20,3                                                                              | 14,0                                                                              | 14,0                                                                              | -                                                                                 |
| 70                                                                                             | 6,1                                                                               | 68,3                                                                              | 6,4                                                                                       | 59,5                                                                              | 7,0                                                                               | 45,8                                                                                     | 9,7                                                                               | 34,8                                                                              | 10,2                                                                                       | 29,7                                                                              | 11,4                                                                              | 21,8                                                                              | 12,3                                                                              | 23,2                                                                              | 13,2                                                                              | 19,5                                                                              | 13,5                                                                              | 13,5                                                                              | -                                                                                 |
| 74                                                                                             | 3,8                                                                               | 65,9                                                                              | 4,0                                                                                       | 57,6                                                                              | 4,5                                                                               | 44,9                                                                                     | 7,2                                                                               | 33,4                                                                              | 7,7                                                                                        | 28,6                                                                              | 8,8                                                                               | 21,2                                                                              | 9,7                                                                               | 22,2                                                                              | 10,6                                                                              | 18,7                                                                              | 12,1                                                                              | 13,1                                                                              | -                                                                                 |
| 75                                                                                             | -                                                                                 | 65,3                                                                              | 3,5                                                                                       | 57,2                                                                              | 4,0                                                                               | 44,7                                                                                     | 6,7                                                                               | 33,1                                                                              | 7,2                                                                                        | 28,4                                                                              | 8,2                                                                               | 21,1                                                                              | 9,2                                                                               | 22,0                                                                              | 10,0                                                                              | 18,5                                                                              | 11,5                                                                              | 13,0                                                                              | -                                                                                 |
| 78                                                                                             | -                                                                                 | 63,5                                                                              | -                                                                                         | 56,0                                                                              | -                                                                                 | 44,1                                                                                     | 5,0                                                                               | 32,1                                                                              | 5,5                                                                                        | 27,7                                                                              | 6,4                                                                               | 20,7                                                                              | 7,5                                                                               | 21,3                                                                              | 8,3                                                                               | 18,0                                                                              | 9,7                                                                               | 12,7                                                                              | -                                                                                 |
| 81                                                                                             | -                                                                                 | 62,0                                                                              | -                                                                                         | 55,0                                                                              | -                                                                                 | 43,6                                                                                     | 3,6                                                                               | 31,2                                                                              | 4,0                                                                                        | 27,0                                                                              | 4,9                                                                               | 20,4                                                                              | 6,0                                                                               | 20,6                                                                              | 6,7                                                                               | 17,5                                                                              | 8,1                                                                               | 12,4                                                                              | -                                                                                 |
| 82                                                                                             | -                                                                                 | 61,5                                                                              | -                                                                                         | 54,6                                                                              | -                                                                                 | 43,5                                                                                     | -                                                                                 | 30,9                                                                              | 3,6                                                                                        | 26,8                                                                              | 4,4                                                                               | 20,3                                                                              | 5,5                                                                               | 20,4                                                                              | 6,2                                                                               | 17,3                                                                              | 7,5                                                                               | 12,3                                                                              | -                                                                                 |
| 83                                                                                             | -                                                                                 | 61,0                                                                              | -                                                                                         | 54,3                                                                              | -                                                                                 | 43,4                                                                                     | -                                                                                 | 30,6                                                                              | -                                                                                          | 26,6                                                                              | 3,9                                                                               | 20,2                                                                              | 5,0                                                                               | 20,2                                                                              | 5,7                                                                               | 17,1                                                                              | 7,0                                                                               | 12,2                                                                              | -                                                                                 |
| 86                                                                                             | -                                                                                 | 59,6                                                                              | -                                                                                         | 53,3                                                                              | -                                                                                 | -                                                                                        | -                                                                                 | 29,9                                                                              | -                                                                                          | 26,0                                                                              | -                                                                                 | 19,9                                                                              | 3,7                                                                               | 19,6                                                                              | 4,3                                                                               | 16,7                                                                              | 5,5                                                                               | 12,0                                                                              | -                                                                                 |
| 87                                                                                             | -                                                                                 | 59,2                                                                              | -                                                                                         | 53,0                                                                              | -                                                                                 | -                                                                                        | -                                                                                 | 29,6                                                                              | -                                                                                          | 25,8                                                                              | -                                                                                 | 19,8                                                                              | -                                                                                 | 19,4                                                                              | 3,9                                                                               | 16,5                                                                              | 5,1                                                                               | 11,9                                                                              | -                                                                                 |
| 90                                                                                             | -                                                                                 | 58,0                                                                              | -                                                                                         | 52,0                                                                              | -                                                                                 | -                                                                                        | -                                                                                 | 28,9                                                                              | -                                                                                          | 25,3                                                                              | -                                                                                 | 19,6                                                                              | -                                                                                 | 18,9                                                                              | -                                                                                 | 16,1                                                                              | 3,7                                                                               | 11,7                                                                              | -                                                                                 |
| 94                                                                                             | -                                                                                 | 56,6                                                                              | -                                                                                         | 43,8                                                                              | -                                                                                 | -                                                                                        | -                                                                                 | 28,0                                                                              | -                                                                                          | 24,7                                                                              | -                                                                                 | 19,3                                                                              | -                                                                                 | 18,2                                                                              | -                                                                                 | 15,6                                                                              | -                                                                                 | 11,4                                                                              | -                                                                                 |
| 97                                                                                             | -                                                                                 | 56,0                                                                              | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | 27,4                                                                              | -                                                                                          | 24,3                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 17,7                                                                              | -                                                                                 | 15,2                                                                              | -                                                                                 | 11,2                                                                              | -                                                                                 |
| 98                                                                                             | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | 27,2                                                                              | -                                                                                          | 24,2                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 17,6                                                                              | -                                                                                 | 15,1                                                                              | -                                                                                 | 11,2                                                                              | -                                                                                 |
| 102                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | 26,6                                                                              | -                                                                                          | 23,7                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 17,0                                                                              | -                                                                                 | 14,7                                                                              | -                                                                                 | 11,0                                                                              | -                                                                                 |
| 105                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | 26,2                                                                              | -                                                                                          | 23,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | 16,6                                                                              | -                                                                                 | 14,4                                                                              | -                                                                                 | 10,9                                                                              | -                                                                                 |
| 106                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | 26,0                                                                              | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 16,4                                                                              | -                                                                                 | 14,4                                                                              | -                                                                                 | 10,9                                                                              | -                                                                                 |
| 108                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | 25,8                                                                              | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 16,2                                                                              | -                                                                                 | 14,2                                                                              | -                                                                                 | -                                                                                 | -                                                                                 |
| 110                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 16,0                                                                              | -                                                                                 | 14,1                                                                              | -                                                                                 | -                                                                                 | -                                                                                 |
| 114                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 15,6                                                                              | -                                                                                 | 13,8                                                                              | -                                                                                 | -                                                                                 | -                                                                                 |
| 116                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 15,5                                                                              | -                                                                                 | 13,7                                                                              | -                                                                                 | -                                                                                 | -                                                                                 |
| 118                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 15,3                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |
| 120                                                                                            | -                                                                                 | -                                                                                 | -                                                                                         | -                                                                                 | -                                                                                 | -                                                                                        | -                                                                                 | -                                                                                 | -                                                                                          | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | 15,2                                                                              | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                 |



|     |      |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|
| 0 t | 65 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|-----|------|-------|-------|-------|-------|-------|



0 t 65 t 125 t 165 t 205 t 265 t 325 t

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div> <div>165 t + 50 t</div> <div>11-19 m</div> <div>8,40 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                                                                                                                                                                                                                      |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 102 m                                                                                                                                                                                                                                                                                                                                                                                |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| SSL+LF_1                                                                                                                                                                                                                                                                                                                                                                             |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <div> <div>12 m</div> <div>24 m</div> <div>36 m</div> </div>                                                                                                                                                                                                                                                                                                                         |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> <div>0 t</div> <div>0 t-325 t</div> </div> |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div>                                                                                                                                                                                                                                  |       |       |       |       |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| m                                                                                                                                                                                                                                                                                                                                                                                    | t     | t     | t     | t     | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    |
| 16                                                                                                                                                                                                                                                                                                                                                                                   | 122,0 | 161,0 | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 17                                                                                                                                                                                                                                                                                                                                                                                   | 115,0 | 159,0 | 116,0 | 121,0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 18                                                                                                                                                                                                                                                                                                                                                                                   | 108,0 | 157,0 | 109,0 | 118,0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 19                                                                                                                                                                                                                                                                                                                                                                                   | 102,2 | 153,5 | 103,5 | 116,0 | 73,5 | 73,5 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 20                                                                                                                                                                                                                                                                                                                                                                                   | 96,5  | 150,0 | 98,0  | 114,0 | 72,5 | 72,5 | 78,5 | 79,0 | -    | -    | -    | -    | -    | -    | -    | -    | -    | -    |
| 22                                                                                                                                                                                                                                                                                                                                                                                   | 86,5  | 143,0 | 87,5  | 110,0 | 71,0 | 71,0 | 75,0 | 76,0 | 57,5 | 57,5 | -    | -    | -    | -    | -    | -    | -    | -    |
| 24                                                                                                                                                                                                                                                                                                                                                                                   | 78,0  | 137,0 | 79,0  | 106,0 | 69,0 | 69,0 | 72,0 | 72,5 | 55,5 | 55,5 | -    | -    | -    | -    | -    | -    | -    | -    |
| 26                                                                                                                                                                                                                                                                                                                                                                                   | 70,5  | 131,0 | 71,5  | 102,0 | 67,5 | 67,5 | 69,5 | 69,5 | 53,5 | 53,5 | 34,2 | 34,2 | 45,3 | 45,6 | -    | -    | -    | -    |
| 27                                                                                                                                                                                                                                                                                                                                                                                   | 67,2  | 128,5 | 68,2  | 100,5 | 66,7 | 66,7 | 67,5 | 68,0 | 52,5 | 52,5 | 33,7 | 33,7 | 44,4 | 44,7 | 34,8 | 35,0 | -    | -    |
| 28                                                                                                                                                                                                                                                                                                                                                                                   | 64,0  | 126,0 | 65,0  | 99,0  | 66,0 | 66,0 | 65,5 | 66,5 | 51,5 | 51,5 | 33,3 | 33,3 | 43,5 | 43,8 | 34,3 | 34,4 | -    | -    |
| 30                                                                                                                                                                                                                                                                                                                                                                                   | 58,0  | 121,0 | 59,0  | 96,0  | 61,0 | 64,5 | 60,0 | 64,0 | 50,0 | 50,0 | 32,5 | 32,5 | 41,9 | 42,2 | 33,1 | 33,3 | -    | -    |
| 33                                                                                                                                                                                                                                                                                                                                                                                   | 51,1  | 115,0 | 52,0  | 92,0  | 53,7 | 62,2 | 53,2 | 60,7 | 47,8 | 47,8 | 31,3 | 31,3 | 39,8 | 40,1 | 31,6 | 31,8 | 20,1 | 20,1 |
| 34                                                                                                                                                                                                                                                                                                                                                                                   | 48,8  | 113,0 | 49,6  | 90,6  | 51,3 | 61,5 | 50,9 | 59,6 | 47,0 | 47,0 | 30,9 | 30,9 | 39,1 | 39,4 | 31,1 | 31,3 | 19,8 | 19,8 |
| 38                                                                                                                                                                                                                                                                                                                                                                                   | 40,7  | 105,6 | 41,5  | 85,6  | 42,9 | 59,0 | 42,9 | 55,5 | 42,8 | 44,3 | 29,5 | 29,5 | 36,6 | 36,9 | 29,3 | 29,5 | 18,8 | 18,9 |
| 42                                                                                                                                                                                                                                                                                                                                                                                   | 33,8  | 99,0  | 34,5  | 81,0  | 35,7 | 57,0 | 36,1 | 51,5 | 37,3 | 41,8 | 28,3 | 28,3 | 34,2 | 34,5 | 27,7 | 27,8 | 18,0 | 18,1 |
| 46                                                                                                                                                                                                                                                                                                                                                                                   | 27,8  | 93,6  | 28,5  | 77,3  | 29,6 | 55,0 | 30,7 | 48,7 | 31,8 | 39,6 | 27,1 | 27,1 | 31,2 | 32,3 | 26,2 | 26,3 | 17,2 | 17,3 |
| 50                                                                                                                                                                                                                                                                                                                                                                                   | 22,4  | 88,6  | 23,0  | 73,8  | 24,0 | 53,1 | 25,8 | 46,1 | 26,9 | 37,7 | 25,8 | 26,1 | 27,5 | 30,4 | 24,8 | 24,9 | 16,4 | 16,5 |
| 54                                                                                                                                                                                                                                                                                                                                                                                   | 17,5  | 84,0  | 18,0  | 70,5  | 18,9 | 51,5 | 21,6 | 43,5 | 22,5 | 35,9 | 24,3 | 25,1 | 23,3 | 28,7 | 23,5 | 23,7 | 15,8 | 15,8 |
| 58                                                                                                                                                                                                                                                                                                                                                                                   | 13,6  | 80,3  | 14,0  | 67,8  | 14,8 | 50,0 | 17,6 | 41,3 | 18,5 | 34,3 | 20,1 | 24,3 | 19,7 | 27,2 | 20,6 | 22,5 | 15,2 | 15,2 |
| 62                                                                                                                                                                                                                                                                                                                                                                                   | 10,1  | 76,8  | 10,5  | 65,3  | 11,2 | 48,7 | 14,0 | 39,3 | 14,9 | 32,9 | 16,3 | 23,5 | 16,5 | 25,9 | 17,7 | 21,5 | 14,6 | 14,6 |
| 66                                                                                                                                                                                                                                                                                                                                                                                   | 7,0   | 73,5  | 7,4   | 63,0  | 8,0  | 47,5 | 10,8 | 37,5 | 11,6 | 31,6 | 12,9 | 22,8 | 13,7 | 24,8 | 14,7 | 20,7 | 14,1 | 14,2 |
| 70                                                                                                                                                                                                                                                                                                                                                                                   | 4,4   | 70,7  | 4,8   | 61,0  | 5,3  | 46,4 | 8,1  | 35,9 | 8,8  | 30,4 | 10,0 | 22,1 | 10,9 | 23,8 | 11,9 | 19,9 | 12,9 | 13,7 |
| 71                                                                                                                                                                                                                                                                                                                                                                                   | 3,8   | 70,0  | 4,1   | 60,5  | 4,6  | 46,2 | 7,4  | 35,5 | 8,1  | 30,1 | 9,3  | 21,9 | 10,2 | 23,5 | 11,2 | 19,7 | 12,6 | 13,6 |
| 72                                                                                                                                                                                                                                                                                                                                                                                   | -     | 69,0  | 3,5   | 60,0  | 4,0  | 45,9 | 6,8  | 35,1 | 7,5  | 29,8 | 8,6  | 21,8 | 9,6  | 23,3 | 10,5 | 19,5 | 12,3 | 13,5 |
| 74                                                                                                                                                                                                                                                                                                                                                                                   | -     | 67,8  | -     | 59,0  | -    | 45,4 | 5,6  | 34,4 | 6,3  | 29,3 | 7,4  | 21,5 | 8,4  | 22,8 | 9,3  | 19,1 | 11,0 | 13,3 |
| 77                                                                                                                                                                                                                                                                                                                                                                                   | -     | 66,0  | -     | 57,5  | -    | 44,8 | 4,0  | 33,4 | 4,5  | 28,6 | 5,6  | 21,1 | 6,6  | 22,1 | 7,5  | 18,5 | 9,1  | 13,0 |
| 78                                                                                                                                                                                                                                                                                                                                                                                   | -     | 65,5  | -     | 57,0  | -    | 44,6 | -    | 33,1 | 4,0  | 28,3 | 5,0  | 21,0 | 6,1  | 21,9 | 6,9  | 18,4 | 8,5  | 12,9 |
| 79                                                                                                                                                                                                                                                                                                                                                                                   | -     | 65,0  | -     | 56,6  | -    | 44,4 | -    | 32,8 | 3,5  | 28,1 | 4,4  | 20,9 | 5,6  | 21,6 | 6,4  | 18,2 | 7,9  | 12,8 |
| 80                                                                                                                                                                                                                                                                                                                                                                                   | -     | 64,5  | -     | 56,3  | -    | 44,2 | -    | 32,5 | -    | 27,8 | 3,9  | 20,8 | 5,1  | 21,4 | 5,9  | 18,0 | 7,4  | 12,7 |
| 82                                                                                                                                                                                                                                                                                                                                                                                   | -     | 63,5  | -     | 55,6  | -    | 43,9 | -    | 31,9 | -    | 27,4 | -    | 20,6 | 4,1  | 21,0 | 4,9  | 17,7 | 6,3  | 12,5 |
| 83                                                                                                                                                                                                                                                                                                                                                                                   | -     | 63,0  | -     | 55,3  | -    | 43,7 | -    | 31,6 | -    | 27,2 | -    | 20,5 | 3,6  | 20,8 | 4,4  | 17,5 | 5,7  | 12,4 |
| 84                                                                                                                                                                                                                                                                                                                                                                                   | -     | 62,5  | -     | 55,0  | -    | 43,6 | -    | 31,3 | -    | 27,0 | -    | 20,4 | -    | 20,6 | 3,9  | 17,4 | 5,2  | 12,4 |
| 86                                                                                                                                                                                                                                                                                                                                                                                   | -     | 61,5  | -     | 54,3  | -    | 43,3 | -    | 30,7 | -    | 26,6 | -    | 20,2 | -    | 20,2 | -    | 17,1 | 4,2  | 12,2 |
| 87                                                                                                                                                                                                                                                                                                                                                                                   | -     | 61,0  | -     | 54,0  | -    | 43,2 | -    | 30,5 | -    | 26,4 | -    | 20,1 | -    | 20,0 | -    | 16,9 | 3,8  | 12,1 |
| 90                                                                                                                                                                                                                                                                                                                                                                                   | -     | 59,5  | -     | 53,0  | -    | -    | -    | 29,7 | -    | 25,9 | -    | 19,8 | -    | 19,4 | -    | 16,5 | -    | 11,9 |
| 94                                                                                                                                                                                                                                                                                                                                                                                   | -     | 57,8  | -     | 52,0  | -    | -    | -    | 28,8 | -    | 25,3 | -    | 19,5 | -    | 18,7 | -    | 15,9 | -    | 11,6 |
| 98                                                                                                                                                                                                                                                                                                                                                                                   | -     | 55,0  | -     | 51,5  | -    | -    | -    | 28,0 | -    | 24,7 | -    | 19,3 | -    | 18,1 | -    | 15,5 | -    | 11,4 |
| 99                                                                                                                                                                                                                                                                                                                                                                                   | -     | 54,0  | -     | 43,7  | -    | -    | -    | 27,8 | -    | 24,6 | -    | -    | -    | 17,9 | -    | 15,4 | -    | 11,3 |
| 102                                                                                                                                                                                                                                                                                                                                                                                  | -     | 51,0  | -     | -     | -    | -    | -    | 27,3 | -    | 24,2 | -    | -    | -    | 17,5 | -    | 15,1 | -    | 11,2 |
| 106                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | 26,6 | -    | 23,8 | -    | -    | -    | 16,9 | -    | 14,7 | -    | 11,0 |
| 110                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | 26,0 | -    | 23,4 | -    | -    | -    | 16,4 | -    | 14,3 | -    | 10,8 |
| 113                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | 25,7 | -    | -    | -    | -    | -    | 16,1 | -    | 14,1 | -    | -    |
| 114                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 16,0 | -    | 14,0 | -    | -    |
| 118                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,6 | -    | 13,8 | -    | -    |
| 121                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,4 | -    | 13,6 | -    | -    |
| 122                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,3 | -    | -    | -    | -    |
| 125                                                                                                                                                                                                                                                                                                                                                                                  | -     | -     | -     | -     | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,1 | -    | -    | -    | -    |


0 t
65 t
125 t
165 t
205 t
265 t
325 t

# Operation

SSL+LF\_1

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |       |  11-19 m |       |  8,40 m |      |  9.8 m/s |      | 360° |      | EN13000 |      |      |      |         |      |      |      |         |   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------|------|------|------|---------|------|------|------|---------|------|------|------|---------|---|
| 108 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                                                                                           |       |                                                                                          |      |                                                                                             |      |      |      |         |      |      |      |         |      |      |      |         |   |
| SSL+LF_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |       |                                                                                           |       |                                                                                          |      |                                                                                             |      |      |      |         |      |      |      |         |      |      |      |         |   |
| <div><div></div><div>12 m</div><div></div></div> <div><div></div><div>24 m</div><div></div></div> <div><div></div><div>36 m</div><div></div></div> |       |                                                                                           |       |                                                                                          |      |                                                                                             |      |      |      |         |      |      |      |         |      |      |      |         |   |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | 0t-325t                                                                                   |       | 0 t                                                                                      |      | 0t-325t                                                                                     |      | 0 t  |      | 0t-325t |      | 0 t  |      | 0t-325t |      | 0 t  |      | 0t-325t |   |
| 15°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       | 20°                                                                                       |       | 30°                                                                                      |      | 15°                                                                                         |      | 20°  |      | 30°     |      | 15°  |      | 20°     |      | 30°  |      |         |   |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | t     | t                                                                                         | t     | t                                                                                        | t    | t                                                                                           | t    | t    | t    | t       | t    | t    | t    | t       | t    | t    | t    | t       | t |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 117,0 | 154,0                                                                                     | -     | -                                                                                        | -    | -                                                                                           | -    | -    | -    | -       | -    | -    | -    | -       | -    | -    | -    | -       | - |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 110,0 | 154,0                                                                                     | 111,0 | 122,0                                                                                    | -    | -                                                                                           | -    | -    | -    | -       | -    | -    | -    | -       | -    | -    | -    | -       | - |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 103,0 | 154,0                                                                                     | 105,0 | 119,0                                                                                    | -    | -                                                                                           | -    | -    | -    | -       | -    | -    | -    | -       | -    | -    | -    | -       | - |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 97,5  | 152,0                                                                                     | 99,2  | 117,0                                                                                    | 74,0 | 74,0                                                                                        | -    | -    | -    | -       | -    | -    | -    | -       | -    | -    | -    | -       | - |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 92,0  | 150,0                                                                                     | 93,5  | 115,0                                                                                    | 73,0 | 73,0                                                                                        | 79,0 | 79,5 | -    | -       | -    | -    | -    | -       | -    | -    | -    | -       | - |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 82,5  | 145,0                                                                                     | 84,0  | 111,0                                                                                    | 71,5 | 71,5                                                                                        | 75,5 | 76,5 | 58,0 | 58,0    | -    | -    | -    | -       | -    | -    | -    | -       | - |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 74,5  | 139,0                                                                                     | 75,5  | 107,0                                                                                    | 69,5 | 69,5                                                                                        | 73,0 | 73,5 | 56,0 | 56,0    | -    | -    | 47,3 | 47,7    | -    | -    | -    | -       | - |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 67,0  | 134,0                                                                                     | 68,0  | 104,0                                                                                    | 68,0 | 68,0                                                                                        | 69,0 | 70,5 | 54,0 | 54,0    | 34,4 | 34,4 | 45,6 | 45,9    | -    | -    | -    | -       | - |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 60,5  | 129,0                                                                                     | 61,5  | 101,0                                                                                    | 64,0 | 66,5                                                                                        | 62,5 | 68,0 | 52,5 | 52,5    | 33,5 | 33,5 | 43,9 | 44,2    | 34,4 | 34,6 | -    | -       | - |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 55,0  | 124,0                                                                                     | 56,0  | 97,5                                                                                     | 58,0 | 65,0                                                                                        | 57,0 | 65,0 | 50,5 | 50,5    | 32,7 | 32,7 | 42,3 | 42,6    | 33,3 | 33,5 | -    | -       | - |
| 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 48,2  | 118,0                                                                                     | 49,1  | 93,5                                                                                     | 50,9 | 63,0                                                                                        | 50,4 | 61,7 | 47,9 | 48,4    | 31,5 | 31,5 | 40,2 | 40,5    | 31,8 | 32,0 | 20,1 | 20,1    | - |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 46,0  | 116,0                                                                                     | 46,8  | 92,1                                                                                     | 48,5 | 62,3                                                                                        | 48,2 | 60,6 | 47,0 | 47,7    | 31,1 | 31,1 | 39,5 | 39,8    | 31,3 | 31,5 | 19,8 | 19,8    | - |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 38,0  | 108,6                                                                                     | 38,8  | 87,3                                                                                     | 40,2 | 59,8                                                                                        | 40,4 | 56,6 | 41,8 | 45,0    | 29,7 | 29,7 | 37,0 | 37,3    | 29,6 | 29,8 | 18,9 | 18,9    | - |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 31,2  | 102,0                                                                                     | 31,9  | 83,0                                                                                     | 33,2 | 57,5                                                                                        | 33,6 | 53,0 | 35,0 | 42,6    | 28,5 | 28,5 | 34,8 | 35,0    | 28,0 | 28,2 | 18,1 | 18,1    | - |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25,8  | 96,3                                                                                      | 26,4  | 79,0                                                                                     | 27,6 | 55,5                                                                                        | 28,3 | 50,0 | 29,6 | 40,4    | 27,4 | 27,4 | 29,9 | 33,0    | 26,5 | 26,7 | 17,3 | 17,3    | - |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 20,6  | 91,1                                                                                      | 21,2  | 75,3                                                                                     | 22,3 | 53,6                                                                                        | 23,6 | 47,2 | 24,7 | 38,5    | 25,3 | 26,4 | 25,4 | 31,1    | 24,7 | 25,3 | 16,5 | 16,6    | - |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 15,6  | 86,5                                                                                      | 16,2  | 72,0                                                                                     | 17,1 | 52,0                                                                                        | 19,4 | 44,7 | 20,4 | 36,7    | 22,2 | 25,4 | 21,2 | 29,3    | 22,6 | 24,1 | 15,9 | 16,0    | - |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 11,7  | 82,5                                                                                      | 12,2  | 69,3                                                                                     | 13,1 | 50,6                                                                                        | 15,8 | 42,5 | 16,8 | 35,1    | 18,4 | 24,6 | 17,7 | 27,8    | 19,0 | 23,0 | 15,3 | 15,4    | - |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 8,2   | 78,8                                                                                      | 8,6   | 66,8                                                                                     | 9,4  | 49,4                                                                                        | 12,4 | 40,4 | 13,3 | 33,6    | 14,8 | 23,8 | 14,5 | 26,5    | 15,7 | 22,0 | 14,7 | 14,8    | - |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5,1   | 75,5                                                                                      | 5,5   | 64,5                                                                                     | 6,2  | 48,2                                                                                        | 9,1  | 38,6 | 9,9  | 32,3    | 11,4 | 23,1 | 11,6 | 25,3    | 12,8 | 21,1 | 14,3 | 14,3    | - |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 3,8   | 74,2                                                                                      | 4,1   | 63,5                                                                                     | 4,8  | 47,6                                                                                        | 7,7  | 37,8 | 8,5  | 31,7    | 9,9  | 22,7 | 10,3 | 24,8    | 11,5 | 20,7 | 13,1 | 14,1    | - |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 73,4                                                                                      | -     | 63,0                                                                                     | 4,1  | 47,3                                                                                        | 7,1  | 37,4 | 7,8  | 31,4    | 9,2  | 22,6 | 9,7  | 24,6    | 10,8 | 20,5 | 12,5 | 14,0    | - |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 72,6                                                                                      | -     | 62,5                                                                                     | -    | 47,0                                                                                        | 6,4  | 37,0 | 7,1  | 31,1    | 8,5  | 22,4 | 9,1  | 24,3    | 10,2 | 20,3 | 11,9 | 13,9    | - |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 69,8                                                                                      | -     | 60,5                                                                                     | -    | 46,0                                                                                        | 3,9  | 35,4 | 4,6  | 30,0    | 5,8  | 21,8 | 6,7  | 23,4    | 7,7  | 19,6 | 9,5  | 13,5    | - |
| 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 69,2                                                                                      | -     | 60,0                                                                                     | -    | 45,8                                                                                        | -    | 35,1 | 4,0  | 29,7    | 5,2  | 21,7 | 6,2  | 23,2    | 7,1  | 19,4 | 8,9  | 13,4    | - |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 68,0                                                                                      | -     | 59,0                                                                                     | -    | 45,4                                                                                        | -    | 34,3 | -    | 29,2    | 4,0  | 21,4 | 5,0  | 22,7    | 5,9  | 19,0 | 7,7  | 13,2    | - |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 67,5                                                                                      | -     | 58,5                                                                                     | -    | 45,2                                                                                        | -    | 34,0 | -    | 29,0    | -    | 21,3 | 4,5  | 22,5    | 5,4  | 18,8 | 7,1  | 13,1    | - |
| 79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 66,9                                                                                      | -     | 58,0                                                                                     | -    | 45,0                                                                                        | -    | 33,7 | -    | 28,7    | -    | 21,1 | 4,0  | 22,3    | 4,8  | 18,6 | 6,5  | 13,0    | - |
| 81                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 65,7                                                                                      | -     | 57,2                                                                                     | -    | 44,6                                                                                        | -    | 33,1 | -    | 28,3    | -    | 20,9 | -    | 21,8    | 3,8  | 18,3 | 5,4  | 12,8    | - |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 65,1                                                                                      | -     | 56,8                                                                                     | -    | 44,4                                                                                        | -    | 32,8 | -    | 28,0    | -    | 20,8 | -    | 21,6    | -    | 18,1 | 4,9  | 12,7    | - |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 64,0                                                                                      | -     | 56,0                                                                                     | -    | 44,1                                                                                        | -    | 32,2 | -    | 27,6    | -    | 20,6 | -    | 21,2    | -    | 17,8 | 3,8  | 12,5    | - |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 63,1                                                                                      | -     | 55,5                                                                                     | -    | 43,8                                                                                        | -    | 31,6 | -    | 27,2    | -    | 20,4 | -    | 20,8    | -    | 17,5 | -    | 12,3    | - |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 61,5                                                                                      | -     | 54,5                                                                                     | -    | 43,2                                                                                        | -    | 30,6 | -    | 26,5    | -    | 20,0 | -    | 20,0    | -    | 16,9 | -    | 12,1    | - |
| 92                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 59,3                                                                                      | -     | 53,8                                                                                     | -    | 42,1                                                                                        | -    | 30,1 | -    | 26,1    | -    | 19,8 | -    | 19,6    | -    | 16,6 | -    | 11,9    | - |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 57,1                                                                                      | -     | 53,1                                                                                     | -    | -                                                                                           | -    | 29,6 | -    | 25,8    | -    | 19,7 | -    | 19,2    | -    | 16,3 | -    | 11,7    | - |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | 53,6                                                                                      | -     | 52,0                                                                                     | -    | -                                                                                           | -    | 28,8 | -    | 25,2    | -    | 19,4 | -    | 18,6    | -    | 15,9 | -    | 11,5    | - |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | 50,0                                                                                      | -     | 50,0                                                                                     | -    | -                                                                                           | -    | 28,0 | -    | 24,6    | -    | 19,2 | -    | 18,0    | -    | 15,4 | -    | 11,3    | - |
| 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | 49,0                                                                                      | -     | 49,2                                                                                     | -    | -                                                                                           | -    | 27,8 | -    | 24,5    | -    | 19,1 | -    | 17,9    | -    | 15,3 | -    | 11,2    | - |
| 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | 48,0                                                                                      | -     | 48,5                                                                                     | -    | -                                                                                           | -    | 27,6 | -    | 24,4    | -    | -    | -    | 17,7    | -    | 15,2 | -    | 11,2    | - |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | 46,0                                                                                      | -     | -                                                                                        | -    | -                                                                                           | -    | 27,3 | -    | 24,1    | -    | -    | -    | 17,4    | -    | 15,0 | -    | 11,1    | - |
| 107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | 45,1                                                                                      | -     | -                                                                                        | -    | -                                                                                           | -    | 27,1 | -    | 24,0    | -    | -    | -    | 17,3    | -    | 14,9 | -    | 11,0    | - |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | 26,7 | -    | 23,7    | -    | -    | -    | 16,9    | -    | 14,6 | -    | 10,9    | - |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | 26,1 | -    | 23,4    | -    | -    | -    | 16,5    | -    | 14,3 | -    | 10,8    | - |
| 115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | 26,0 | -    | 23,3    | -    | -    | -    | 16,4    | -    | 14,2 | -    | -       | - |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | 25,7 | -    | -       | -    | -    | -    | 16,1    | -    | 14,0 | -    | -       | - |
| 119                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | 25,6 | -    | -       | -    | -    | -    | 16,0    | -    | 13,9 | -    | -       | - |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | -    | -    | -       | -    | -    | -    | 15,7    | -    | 13,8 | -    | -       | - |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | -    | -    | -       | -    | -    | -    | 15,4    | -    | 13,6 | -    | -       | - |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | -     | -                                                                                         | -     | -                                                                                        | -    | -                                                                                           | -    | -    | -    | -       | -    | -    | -    | 15,1    | -    | -    | -    | -       | - |



0 t

65 t

125 t

165 t

205 t

265 t

325 t

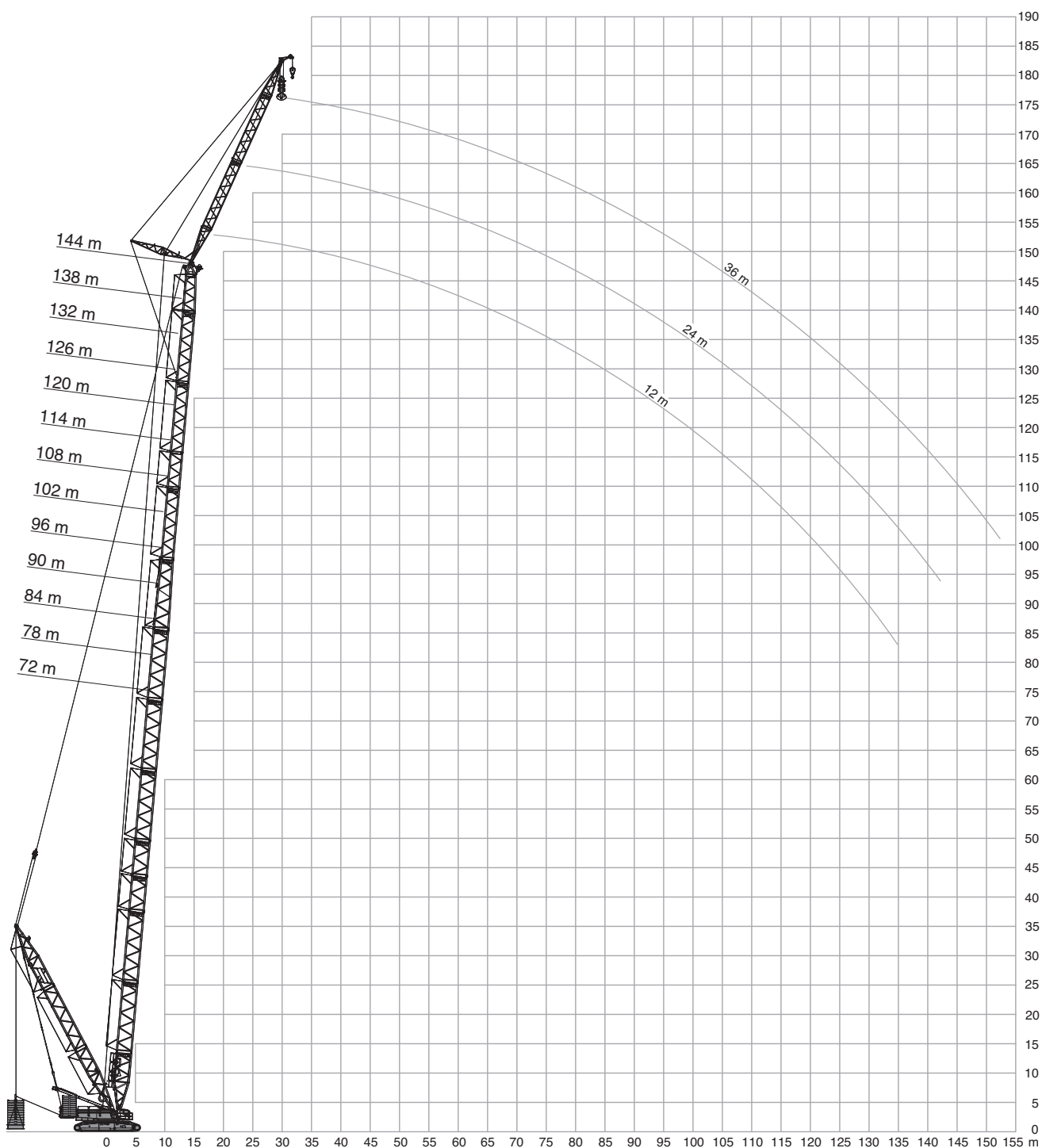


0 t 65 t 125 t 165 t 205 t 265 t 325 t

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

LSL+LF\_2

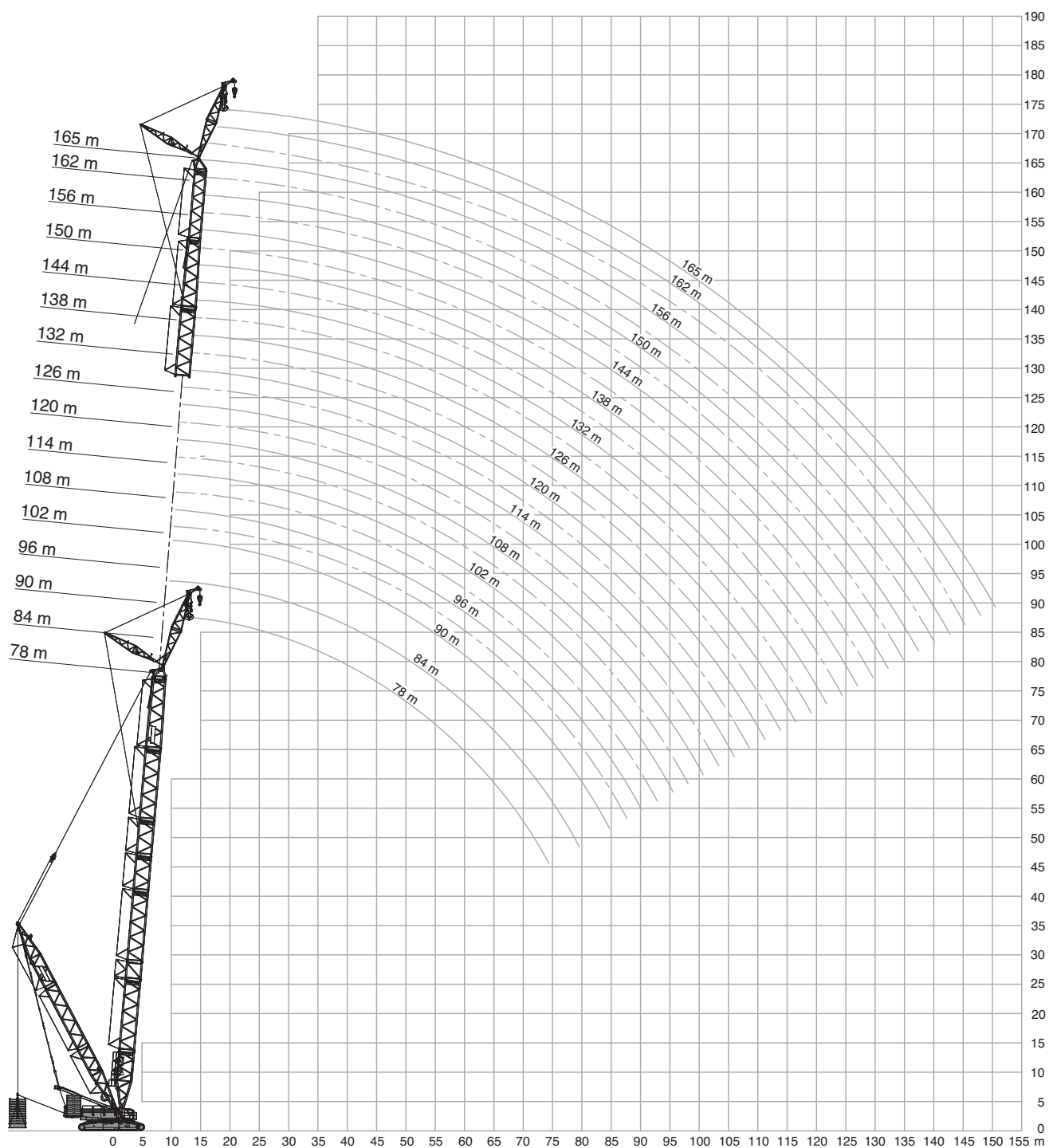




# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

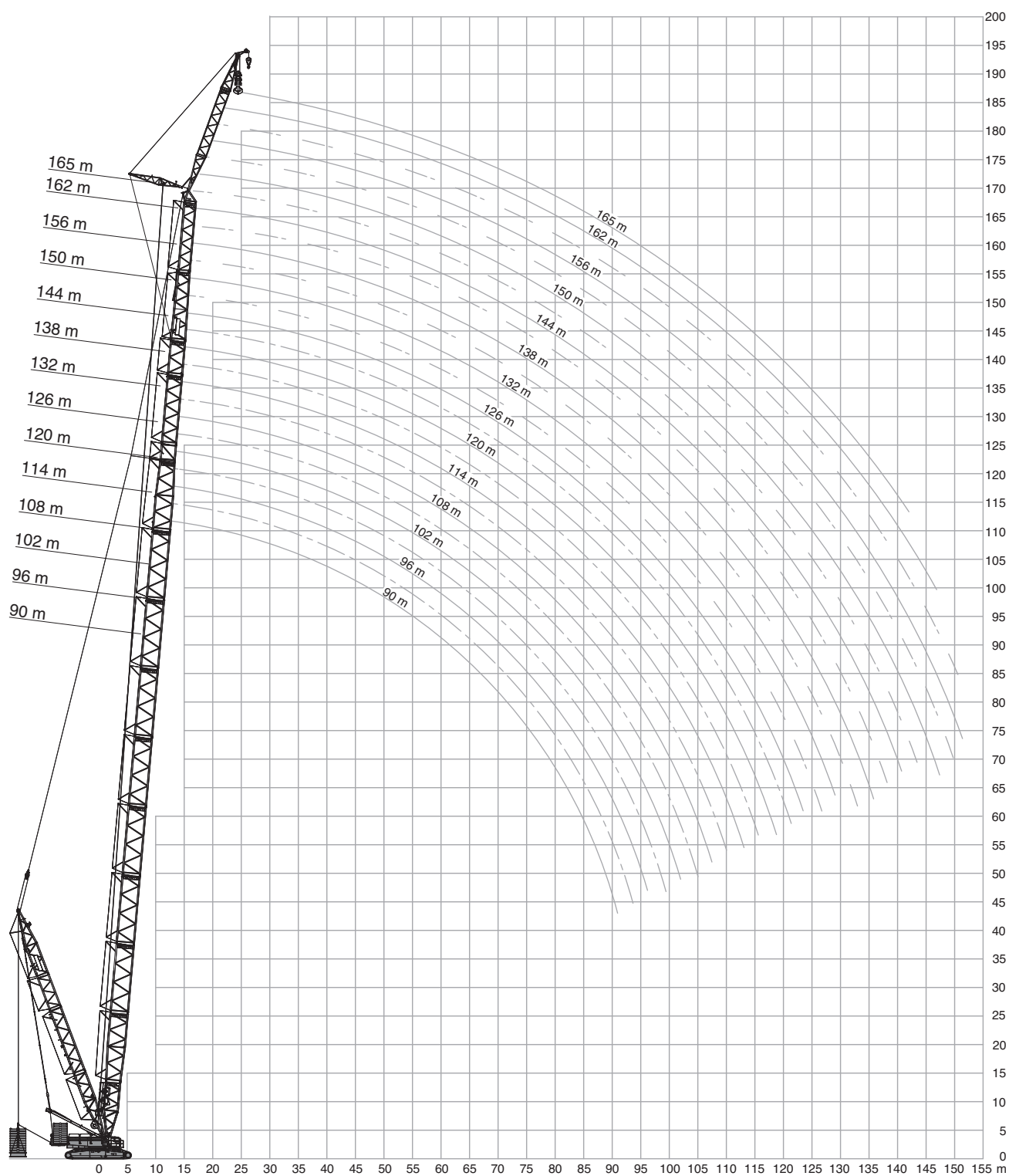
**LSL+LF\_3, LSL+LF\_4**  
**LSL+LF\_6, LSL+LF\_8**  
**LSL+LF\_10, LSL+LF\_12**



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

LSL+LF\_14



# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t |       |           |       |      |       |       |       |           |       |          |       |       |       |           |      |       |       |       |     | 11-19 m   |       |     |   | 8,40 m |    |           |  | 9.8 m/s |  |          |  | 360° |  | EN13000 |  |
|--------------|-------|-----------|-------|------|-------|-------|-------|-----------|-------|----------|-------|-------|-------|-----------|------|-------|-------|-------|-----|-----------|-------|-----|---|--------|----|-----------|--|---------|--|----------|--|------|--|---------|--|
| 72 m         |       |           |       |      |       |       |       |           |       | 78 m     |       |       |       |           |      |       |       |       |     | 84 m      |       |     |   |        |    |           |  |         |  |          |  |      |  |         |  |
| LSL+LF_2     |       |           |       |      |       |       |       |           |       | LSL+LF_3 |       |       |       |           |      |       |       |       |     | LSL+LF_2  |       |     |   |        |    |           |  |         |  | LSL+LF_3 |  |      |  |         |  |
| 12 m         |       |           |       |      |       |       |       |           |       |          |       |       |       |           |      |       |       |       |     |           |       |     |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 0 t          |       | 0 t-325 t |       |      |       | 0 t   |       | 0 t-325 t |       |          |       | 0 t   |       | 0 t-325 t |      |       |       | 0 t   |     | 0 t-325 t |       |     |   | 0 t    |    | 0 t-325 t |  |         |  |          |  |      |  |         |  |
| 15°          |       | 20°       |       | 30°  |       | 15°   |       | 20°       |       | 30°      |       | 15°   |       | 20°       |      | 15°   |       | 20°   |     | 30°       |       | 15° |   | 20°    |    |           |  |         |  |          |  |      |  |         |  |
| m            | t     | t         | t     | t    | t     | t     | t     | t         | t     | t        | t     | t     | t     | t         | t    | t     | t     | t     | t   | t         | t     | t   | t | t      | m  |           |  |         |  |          |  |      |  |         |  |
| 12           | 178,0 | 178,0     | -     | -    | -     | -     | -     | -         | -     | -        | -     | -     | -     | -         | -    | -     | -     | -     | -   | -         | -     | -   | - | -      | 12 |           |  |         |  |          |  |      |  |         |  |
| 13           | 171,0 | 172,5     | 132,0 | -    | 169,0 | 176,0 | -     | -         | -     | -        | -     | -     | 162,0 | 178,0     | -    | -     | -     | -     | -   | -         | -     | -   | - | -      | 13 |           |  |         |  |          |  |      |  |         |  |
| 14           | 164,0 | 167,0     | 128,0 | -    | 157,0 | 170,0 | 130,0 | -         | 152,0 | 156,0    | 124,0 | 151,0 | 173,0 | 132,0     | -    | 149,0 | 155,0 | 126,0 | 145 | 150,0     | 123,0 | 14  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 15           | 154,0 | 162,0     | 125,0 | 81,5 | 147,5 | 165,0 | 127,0 | -         | 144,0 | 152,0    | 121,0 | 142,0 | 168,5 | 129,0     | -    | 140,0 | 152,0 | 123,0 | 15  | 150,0     | 123,0 | 15  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 16           | 144,0 | 157,0     | 122,0 | 80,0 | 138,0 | 160,0 | 124,0 | 81,0      | 136,0 | 148,0    | 118,0 | 133,0 | 164,0 | 126,0     | 81,5 | 131,0 | 149,0 | 120,0 | 16  | 149,0     | 120,0 | 16  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 18           | 127,0 | 148,0     | 116,0 | 77,5 | 122,0 | 151,0 | 118,0 | 78,0      | 121,0 | 140,0    | 113,0 | 118,0 | 155,0 | 120,0     | 79,0 | 116,0 | 143,0 | 115,0 | 18  | 143,0     | 115,0 | 18  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 20           | 114,0 | 140,0     | 111,0 | 74,5 | 109,0 | 143,0 | 113,0 | 75,5      | 108,0 | 134,0    | 109,0 | 106,0 | 147,0 | 115,0     | 76,5 | 104,0 | 136,0 | 110,0 | 20  | 136,0     | 110,0 | 20  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 22           | 103,0 | 132,0     | 106,0 | 72,5 | 98,5  | 136,0 | 108,0 | 73,5      | 98,2  | 127,5    | 104,0 | 95,5  | 140,0 | 111,0     | 74,0 | 94,2  | 130,5 | 106,0 | 22  | 130,5     | 106,0 | 22  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 24           | 93,5  | 126,0     | 102,0 | 70,0 | 89,5  | 130,0 | 104,0 | 71,0      | 88,5  | 121,0    | 100,0 | 86,5  | 133,0 | 106,0     | 72,0 | 84,5  | 125,0 | 102,0 | 24  | 125,0     | 102,0 | 24  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 26           | 85,0  | 120,0     | 98,0  | 68,0 | 81,5  | 124,0 | 100,0 | 69,0      | 81,0  | 116,0    | 96,5  | 79,0  | 128,0 | 102,0     | 70,0 | 77,5  | 119,5 | 98,5  | 26  | 119,5     | 98,5  | 26  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 28           | 78,0  | 115,0     | 94,0  | 66,0 | 74,5  | 119,0 | 96,5  | 67,0      | 73,5  | 111,0    | 93,0  | 72,0  | 122,0 | 99,0      | 68,0 | 70,5  | 114,0 | 95,0  | 28  | 114,0     | 95,0  | 28  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 30           | 71,5  | 110,0     | 90,5  | 64,0 | 68,5  | 114,0 | 93,5  | 65,5      | 67,7  | 106,5    | 90,0  | 66,0  | 117,0 | 95,5      | 66,5 | 64,7  | 109,5 | 92,0  | 30  | 109,5     | 92,0  | 30  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 34           | 60,1  | 102,0     | 84,8  | 61,0 | 58,1  | 105,3 | 87,5  | 62,1      | 57,2  | 98,2     | 84,3  | 56,6  | 109,0 | 89,8      | 63,5 | 54,7  | 101,5 | 86,3  | 34  | 101,5     | 86,3  | 34  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 38           | 50,5  | 94,6      | 79,6  | 58,1 | 49,0  | 97,8  | 82,1  | 59,3      | 48,5  | 91,8     | 79,3  | 48,0  | 101,6 | 84,6      | 60,6 | 46,7  | 95,1  | 81,3  | 38  | 95,1      | 81,3  | 38  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 42           | 42,6  | 88,0      | 75,0  | 55,5 | 41,1  | 91,5  | 77,5  | 57,0      | 40,5  | 86,5     | 75,0  | 40,2  | 95,0  | 80,0      | 58,0 | 39,1  | 89,5  | 77,0  | 42  | 89,5      | 77,0  | 42  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 46           | 36,8  | 83,0      | 71,3  | 53,5 | 35,2  | 86,5  | 73,5  | 54,6      | 34,6  | 81,8     | 71,3  | 34,1  | 89,6  | 76,0      | 56,0 | 32,9  | 84,8  | 73,6  | 46  | 84,8      | 73,6  | 46  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 50           | 31,6  | 78,3      | 67,8  | 51,6 | 29,9  | 81,8  | 70,0  | 52,6      | 29,3  | 77,5     | 67,8  | 28,7  | 84,8  | 72,3      | 54,0 | 27,5  | 80,5  | 70,3  | 50  | 80,5      | 70,3  | 50  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 54           | 27,0  | 74,0      | 64,5  | 50,0 | 25,2  | 77,5  | 67,0  | 51,0      | 24,7  | 73,5     | 64,5  | 24,1  | 80,5  | 69,0      | 52,0 | 22,9  | 76,5  | 67,0  | 54  | 76,5      | 67,0  | 54  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 58           | 23,4  | 70,6      | 62,1  | 48,8 | 21,6  | 73,8  | 64,3  | 49,8      | 21,1  | 70,1     | 61,8  | 20,4  | 76,5  | 66,3      | 50,6 | 19,2  | 72,8  | 64,3  | 58  | 72,8      | 64,3  | 58  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 62           | 20,1  | 67,6      | 60,0  | 47,7 | 18,3  | 70,5  | 61,8  | 48,6      | 17,8  | 67,0     | 59,5  | 17,1  | 73,0  | 63,8      | 49,4 | 15,9  | 69,5  | 61,8  | 62  | 69,5      | 61,8  | 62  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 65           | 18,0  | 65,6      | 58,5  | 47,0 | 16,1  | 68,2  | 60,0  | 47,7      | 15,7  | 64,7     | 58,0  | 14,9  | 70,7  | 62,0      | 48,5 | 13,8  | 67,2  | 60,0  | 65  | 67,2      | 60,0  | 65  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 66           | 17,3  | 65,0      | 58,0  | -    | 15,4  | 67,5  | 59,5  | 47,5      | 15,0  | 64,0     | 57,5  | 14,2  | 70,0  | 61,5      | 48,3 | 13,1  | 66,5  | 59,5  | 66  | 66,5      | 59,5  | 66  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 69           | 15,5  | 63,2      | 56,7  | -    | 13,6  | 65,7  | 58,2  | 46,9      | 13,2  | 62,2     | 56,2  | 12,4  | 68,0  | 60,0      | 47,6 | 11,3  | 64,5  | 58,0  | 69  | 64,5      | 58,0  | 69  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 70           | 14,9  | 62,6      | 56,3  | -    | 13,0  | 65,1  | 57,8  | -         | 12,6  | 61,6     | 55,8  | 11,8  | 67,3  | 59,5      | 47,4 | 10,7  | 63,8  | 57,5  | 70  | 63,8      | 57,5  | 70  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 73           | 13,3  | 61,1      | 55,5  | -    | 11,4  | 63,5  | 56,6  | -         | 11,0  | 60,0     | 54,7  | 10,2  | 65,5  | 58,1      | 46,8 | 9,1   | 62,0  | 56,1  | 73  | 62,0      | 56,1  | 73  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 74           | 12,8  | 60,7      | -     | -    | 10,9  | 63,0  | 56,3  | -         | 10,5  | 59,6     | 54,5  | 9,7   | 65,0  | 57,8      | -    | 8,6   | 61,5  | 55,8  | 74  | 61,5      | 55,8  | 74  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 76           | 11,8  | 60,0      | -     | -    | 9,9   | 62,0  | 55,6  | -         | 9,5   | 58,8     | 54,0  | 8,7   | 64,0  | 57,1      | -    | 7,6   | 60,5  | 55,1  | 76  | 60,5      | 55,1  | 76  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 78           | -     | -         | -     | -    | 9,0   | 61,0  | 55,0  | -         | 8,6   | 58,0     | 53,5  | 7,7   | 63,0  | 56,5      | -    | 6,6   | 59,5  | 54,5  | 78  | 59,5      | 54,5  | 78  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 81           | -     | -         | -     | -    | 7,8   | 60,0  | -     | -         | 7,4   | 57,0     | -     | 6,5   | 61,7  | 55,6      | -    | 5,4   | 58,5  | 53,9  | 81  | 58,5      | 53,9  | 81  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 82           | -     | -         | -     | -    | -     | -     | -     | -         | -     | -        | -     | 6,1   | 61,3  | 55,3      | -    | 5,0   | 58,1  | 53,7  | 82  | 58,1      | 53,7  | 82  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 83           | -     | -         | -     | -    | -     | -     | -     | -         | -     | -        | -     | 5,7   | 60,9  | 55,0      | -    | 4,6   | 57,8  | 53,5  | 83  | 57,8      | 53,5  | 83  |   |        |    |           |  |         |  |          |  |      |  |         |  |
| 86           | -     | -         | -     | -    | -     | -     | -     | -         | -     | -        | -     | 4,6   | 59,5  | -         | -    | 3,6   | 57,0  | -     | 86  | 57,0      | -     | 86  |   |        |    |           |  |         |  |          |  |      |  |         |  |

0 t

65 t

95 t

125 t

165 t

205 t

265 t

325 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |       |           |       |  11-21 m |       |       |       |  8,40 m |       |           |       |  9.8 m/s |       |       |       | 360°      |    | EN13000 |   |     |  |
|------------------------------------------------------------------------------------------------|-------|-----------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|------------------------------------------------------------------------------------------|-------|-----------|-------|--------------------------------------------------------------------------------------------|-------|-------|-------|-----------|----|---------|---|-----|--|
| 90 m                                                                                           |       |           |       |                                                                                           |       |       |       |                                                                                          |       |           |       | 93 m                                                                                       |       |       |       |           |    |         |   |     |  |
| LSL+LF_2                                                                                       |       |           |       | LSL+LF_3                                                                                  |       |       |       | LSL+LF_6                                                                                 |       | LSL+LF_14 |       | LSL+LF_6                                                                                   |       |       |       | LSL+LF_14 |    |         |   |     |  |
| 12 m                                                                                           |       |           |       |                                                                                           |       |       |       |                                                                                          |       |           |       |                                                                                            |       |       |       |           |    |         |   |     |  |
| 0 t                                                                                            |       | 0 t-325 t |       |                                                                                           |       | 0 t   |       | 0 t-325 t                                                                                |       |           |       |                                                                                            |       | 0 t   |       | 0 t-325 t |    |         |   |     |  |
| 15°                                                                                            |       | 20°       |       | 30°                                                                                       |       | 15°   |       | 20°                                                                                      |       | 15°       |       | 20°                                                                                        |       | 15°   |       | 20°       |    | 15°     |   | 20° |  |
| m                                                                                              | t     | t         | t     | t                                                                                         | t     | t     | t     | t                                                                                        | t     | t         | t     | t                                                                                          | t     | t     | t     | t         | t  | t       | m |     |  |
| 14                                                                                             | 145,0 | 172,0     | -     | -                                                                                         | -     | -     | -     | 155,0                                                                                    | -     | 176,0     | -     | 137,0                                                                                      | 157,0 | -     | 178,0 | -         | 14 |         |   |     |  |
| 15                                                                                             | 136,5 | 169,5     | 130,0 | -                                                                                         | 134,0 | 147,0 | 123,0 | 151,0                                                                                    | 117,0 | 173,5     | 128,0 | 128,5                                                                                      | 152,5 | 117,0 | 175,5 | 129,0     | 15 |         |   |     |  |
| 16                                                                                             | 128,0 | 167,0     | 127,0 | -                                                                                         | 126,0 | 145,0 | 121,0 | 147,0                                                                                    | 114,0 | 171,0     | 125,0 | 120,0                                                                                      | 148,0 | 115,0 | 173,0 | 126,0     | 16 |         |   |     |  |
| 17                                                                                             | 120,5 | 162,5     | 124,5 | 80,5                                                                                      | 119,0 | 143,0 | 118,5 | 143,5                                                                                    | 111,5 | 166,5     | 122,5 | 113,0                                                                                      | 144,5 | 112,5 | 168,5 | 123,5     | 17 |         |   |     |  |
| 18                                                                                             | 113,0 | 158,0     | 122,0 | 79,5                                                                                      | 112,0 | 141,0 | 116,0 | 140,0                                                                                    | 109,0 | 162,0     | 120,0 | 106,0                                                                                      | 141,0 | 110,0 | 164,0 | 121,0     | 18 |         |   |     |  |
| 20                                                                                             | 101,0 | 150,0     | 117,0 | 77,0                                                                                      | 100,0 | 137,0 | 112,0 | 133,0                                                                                    | 105,0 | 154,0     | 115,0 | 94,5                                                                                       | 134,0 | 106,0 | 156,0 | 116,0     | 20 |         |   |     |  |
| 22                                                                                             | 91,5  | 143,0     | 113,0 | 75,0                                                                                      | 91,0  | 132,0 | 108,0 | 127,0                                                                                    | 101,0 | 147,0     | 111,0 | 85,2                                                                                       | 128,5 | 102,0 | 149,0 | 112,0     | 22 |         |   |     |  |
| 24                                                                                             | 83,0  | 137,0     | 108,0 | 73,0                                                                                      | 82,0  | 127,0 | 104,0 | 121,0                                                                                    | 97,5  | 140,0     | 107,0 | 76,0                                                                                       | 123,0 | 98,0  | 142,0 | 108,0     | 24 |         |   |     |  |
| 26                                                                                             | 75,5  | 131,0     | 104,0 | 71,0                                                                                      | 75,0  | 122,0 | 100,0 | 116,0                                                                                    | 94,0  | 134,5     | 103,5 | 69,2                                                                                       | 118,0 | 95,0  | 136,0 | 104,5     | 26 |         |   |     |  |
| 28                                                                                             | 69,0  | 126,0     | 101,0 | 69,0                                                                                      | 68,0  | 117,0 | 97,0  | 111,0                                                                                    | 90,5  | 129,0     | 100,0 | 62,5                                                                                       | 113,0 | 91,5  | 130,0 | 101,0     | 28 |         |   |     |  |
| 30                                                                                             | 63,0  | 121,0     | 98,0  | 67,5                                                                                      | 62,5  | 113,0 | 94,0  | 107,0                                                                                    | 87,5  | 124,0     | 96,7  | 57,2                                                                                       | 109,0 | 88,5  | 125,5 | 97,7      | 30 |         |   |     |  |
| 34                                                                                             | 53,9  | 112,3     | 92,0  | 64,5                                                                                      | 52,9  | 105,0 | 88,3  | 99,7                                                                                     | 82,5  | 115,0     | 90,7  | 47,7                                                                                       | 101,2 | 83,5  | 116,5 | 91,7      | 34 |         |   |     |  |
| 38                                                                                             | 45,8  | 104,8     | 86,6  | 61,6                                                                                      | 45,3  | 98,0  | 83,3  | 93,5                                                                                     | 77,8  | 107,0     | 85,7  | 40,1                                                                                       | 94,5  | 78,8  | 108,5 | 86,7      | 38 |         |   |     |  |
| 42                                                                                             | 38,8  | 98,5      | 82,0  | 59,0                                                                                      | 38,3  | 92,0  | 79,0  | 87,5                                                                                     | 73,5  | 100,1     | 81,5  | 33,5                                                                                       | 88,5  | 74,5  | 102,0 | 82,5      | 42 |         |   |     |  |
| 46                                                                                             | 32,5  | 92,8      | 78,0  | 57,0                                                                                      | 32,1  | 87,6  | 75,6  | 82,5                                                                                     | 69,8  | 94,5      | 77,5  | 27,7                                                                                       | 83,8  | 70,8  | 96,0  | 78,5      | 46 |         |   |     |  |
| 50                                                                                             | 27,0  | 87,6      | 74,3  | 55,0                                                                                      | 26,6  | 83,3  | 72,3  | 78,0                                                                                     | 66,5  | 89,5      | 73,8  | 22,4                                                                                       | 79,5  | 67,5  | 91,0  | 74,8      | 50 |         |   |     |  |
| 54                                                                                             | 22,3  | 83,0      | 71,0  | 53,0                                                                                      | 22,0  | 79,0  | 69,0  | 74,0                                                                                     | 63,5  | 85,0      | 70,6  | 17,7                                                                                       | 75,5  | 64,5  | 86,3  | 71,6      | 54 |         |   |     |  |
| 58                                                                                             | 18,6  | 79,3      | 68,3  | 51,6                                                                                      | 18,3  | 75,3  | 66,3  | 70,6                                                                                     | 61,1  | 81,0      | 68,0  | 14,0                                                                                       | 71,8  | 62,1  | 82,0  | 69,0      | 58 |         |   |     |  |
| 62                                                                                             | 15,3  | 75,8      | 65,8  | 50,4                                                                                      | 15,0  | 72,0  | 63,8  | 67,5                                                                                     | 59,0  | 77,3      | 65,3  | 10,7                                                                                       | 68,6  | 59,8  | 78,6  | 66,3      | 62 |         |   |     |  |
| 66                                                                                             | 12,4  | 72,5      | 63,5  | 49,2                                                                                      | 12,2  | 69,0  | 61,5  | 64,5                                                                                     | 57,0  | 74,0      | 63,0  | 7,8                                                                                        | 66,0  | 57,5  | 75,5  | 64,0      | 66 |         |   |     |  |
| 70                                                                                             | 10,0  | 69,8      | 61,5  | 48,1                                                                                      | 9,8   | 66,3  | 59,5  | 62,1                                                                                     | 55,0  | 71,0      | 61,0  | 5,4                                                                                        | 63,3  | 55,9  | 72,5  | 62,0      | 70 |         |   |     |  |
| 73                                                                                             | 8,3   | 67,9      | 60,0  | 47,4                                                                                      | 8,1   | 64,4  | 58,0  | 60,5                                                                                     | 53,7  | 69,2      | 59,7  | 3,7                                                                                        | 61,5  | 54,5  | 70,5  | 60,7      | 73 |         |   |     |  |
| 74                                                                                             | 7,8   | 67,3      | 59,6  | 47,2                                                                                      | 7,6   | 63,8  | 57,6  | 60,0                                                                                     | 53,5  | 68,6      | 59,3  | -                                                                                          | 61,0  | 54,1  | 69,8  | 60,3      | 74 |         |   |     |  |
| 78                                                                                             | 5,8   | 65,0      | 58,0  | 46,5                                                                                      | 5,7   | 61,5  | 56,0  | 58,0                                                                                     | 52,0  | 66,5      | 57,8  | -                                                                                          | 59,0  | 52,5  | 67,5  | 58,7      | 78 |         |   |     |  |
| 82                                                                                             | 4,2   | 63,0      | 56,6  | -                                                                                         | 4,0   | 60,0  | 54,8  | 56,3                                                                                     | 50,6  | 64,5      | 56,5  | -                                                                                          | 57,3  | 51,1  | 65,5  | 57,0      | 82 |         |   |     |  |
| 83                                                                                             | 3,8   | 62,5      | 56,3  | -                                                                                         | 3,6   | 59,5  | 54,5  | 55,9                                                                                     | 50,3  | 64,0      | 56,5  | -                                                                                          | 56,9  | 50,8  | 65,0  | 56,7      | 83 |         |   |     |  |
| 86                                                                                             | -     | 61,3      | 55,5  | -                                                                                         | -     | 58,3  | 53,5  | 54,8                                                                                     | 49,7  | 62,8      | 55,6  | -                                                                                          | 55,8  | 50,1  | 63,5  | 56,0      | 86 |         |   |     |  |
| 88                                                                                             | -     | 60,6      | 55,0  | -                                                                                         | -     | 57,6  | 53,0  | 54,1                                                                                     | 49,5  | 62,0      | 55,0  | -                                                                                          | 55,1  | 49,8  | 62,5  | 55,5      | 88 |         |   |     |  |
| 90                                                                                             | -     | 60,0      | -     | -                                                                                         | -     | 57,0  | -     | 53,5                                                                                     | -     | 61,3      | -     | -                                                                                          | 54,5  | 49,5  | 61,8  | 55,1      | 90 |         |   |     |  |
| 91                                                                                             | -     | 59,5      | -     | -                                                                                         | -     | 57,0  | -     | 53,5                                                                                     | -     | 61,0      | -     | -                                                                                          | 54,1  | 45,8  | 61,5  | 55,0      | 91 |         |   |     |  |
| 94                                                                                             | -     | -         | -     | -                                                                                         | -     | -     | -     | -                                                                                        | -     | -         | -     | -                                                                                          | 53,0  | -     | 60,5  | -         | 94 |         |   |     |  |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6: 11-19 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t

# Operation

LSL+LF

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|  165 t +  50 t |       |  11-21 m |       |  8,40 m |       |  9.8 m/s |       | 360°     |   | EN13000   |       |           |       |           |       |       |       |                                                                                     |    |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|----------|---|-----------|-------|-----------|-------|-----------|-------|-------|-------|-------------------------------------------------------------------------------------|----|--|--|
|  96 m                                                                                           |       |                                                                                           |       |                                                                                          |       |                                                                                            |       |          |   |           |       |           |       |           |       |       |       |                                                                                     |    |  |  |
| LSL+LF_2                                                                                                                                                                         |       |                                                                                           |       | LSL+LF_3                                                                                 |       | LSL+LF_4                                                                                   |       | LSL+LF_6 |   | LSL+LF_8  |       | LSL+LF_10 |       | LSL+LF_14 |       |       |       |                                                                                     |    |  |  |
|  12 m                                                                                           |       |                                                                                           |       |                                                                                          |       |                                                                                            |       |          |   |           |       |           |       |           |       |       |       |                                                                                     |    |  |  |
|  0 t                                                                                            |       | 0 t-325 t                                                                                 |       | 0 t                                                                                      |       | 0 t-325 t                                                                                  |       | 0 t      |   | 0 t-325 t |       |           |       |           |       |       |       |                                                                                     |    |  |  |
|  15°                                                                                            |       | 20°                                                                                       |       | 30°                                                                                      |       | 15°                                                                                        |       | 20°      |   | 15°       |       | 20°       |       | 15°       |       | 20°   |       |  |    |  |  |
| m                                                                                                                                                                                | t     | t                                                                                         | t     | t                                                                                        | t     | t                                                                                          | t     | t        | t | t         | t     | t         | t     | t         | t     | t     | t     | t                                                                                   | m  |  |  |
| 14                                                                                                                                                                               | 140,0 | 157,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | -     | -        | - | 158,0     | -     | 147,0     | 178,0 | -         | 178,0 | -     | 178,0 | -                                                                                   | 14 |  |  |
| 15                                                                                                                                                                               | 131,5 | 156,5                                                                                     | 132,0 | -                                                                                        | 129,0 | 144,0                                                                                      | 123,0 | -        | - | 153,5     | 118,0 | 138,0     | 177,0 | -         | 177,0 | -     | 176,0 | -                                                                                   | 15 |  |  |
| 16                                                                                                                                                                               | 123,0 | 156,0                                                                                     | 129,0 | -                                                                                        | 121,0 | 143,0                                                                                      | 122,0 | -        | - | 149,0     | 115,0 | 129,0     | 176,0 | 129,0     | 176,0 | 129,0 | 174,0 | 127,0                                                                               | 16 |  |  |
| 17                                                                                                                                                                               | 116,0 | 155,5                                                                                     | 126,5 | 81,0                                                                                     | 114,0 | 141,5                                                                                      | 120,0 | -        | - | 145,5     | 113,0 | 122,0     | 171,5 | 126,5     | 171,5 | 126,5 | 169,5 | 124,5                                                                               | 17 |  |  |
| 18                                                                                                                                                                               | 109,0 | 155,0                                                                                     | 124,0 | 80,0                                                                                     | 107,0 | 140,0                                                                                      | 118,0 | -        | - | 142,0     | 111,0 | 115,0     | 167,0 | 124,0     | 167,0 | 124,0 | 165,0 | 122,0                                                                               | 18 |  |  |
| 20                                                                                                                                                                               | 98,5  | 153,0                                                                                     | 119,0 | 77,5                                                                                     | 96,5  | 137,0                                                                                      | 113,0 | -        | - | 135,0     | 106,0 | 103,0     | 160,0 | 120,0     | 160,0 | 120,0 | 157,0 | 117,0                                                                               | 20 |  |  |
| 22                                                                                                                                                                               | 88,5  | 146,0                                                                                     | 114,0 | 75,5                                                                                     | 87,5  | 132,5                                                                                      | 109,0 | -        | - | 129,5     | 102,0 | 93,5      | 153,0 | 116,0     | 153,0 | 116,0 | 150,0 | 113,0                                                                               | 22 |  |  |
| 24                                                                                                                                                                               | 80,0  | 140,0                                                                                     | 110,0 | 73,5                                                                                     | 78,5  | 128,0                                                                                      | 106,0 | -        | - | 124,0     | 99,0  | 84,0      | 146,0 | 112,0     | 146,0 | 112,0 | 144,0 | 109,0                                                                               | 24 |  |  |
| 26                                                                                                                                                                               | 73,0  | 134,0                                                                                     | 106,0 | 71,5                                                                                     | 71,7  | 123,5                                                                                      | 102,0 | -        | - | 119,0     | 95,5  | 76,7      | 140,5 | 108,0     | 140,5 | 108,0 | 138,0 | 105,5                                                                               | 26 |  |  |
| 28                                                                                                                                                                               | 66,5  | 129,0                                                                                     | 103,0 | 70,0                                                                                     | 65,0  | 119,0                                                                                      | 99,0  | -        | - | 114,0     | 92,5  | 69,5      | 135,0 | 105,0     | 135,0 | 105,0 | 132,0 | 102,0                                                                               | 28 |  |  |
| 30                                                                                                                                                                               | 61,0  | 124,0                                                                                     | 100,0 | 68,0                                                                                     | 59,7  | 115,5                                                                                      | 96,0  | -        | - | 110,0     | 89,5  | 63,7      | 130,0 | 101,0     | 130,0 | 101,0 | 127,0 | 98,7                                                                                | 30 |  |  |
| 34                                                                                                                                                                               | 52,0  | 115,3                                                                                     | 94,0  | 65,3                                                                                     | 50,3  | 108,5                                                                                      | 90,3  | -        | - | 102,5     | 84,5  | 53,6      | 121,0 | 95,6      | 121,0 | 95,6  | 118,0 | 92,7                                                                                | 34 |  |  |
| 38                                                                                                                                                                               | 44,2  | 107,6                                                                                     | 88,6  | 62,6                                                                                     | 42,7  | 101,8                                                                                      | 85,3  | -        | - | 96,0      | 79,8  | 45,7      | 113,3 | 90,8      | 113,3 | 90,8  | 110,5 | 87,7                                                                                | 38 |  |  |
| 42                                                                                                                                                                               | 37,6  | 101,0                                                                                     | 84,0  | 60,0                                                                                     | 36,1  | 95,5                                                                                       | 81,0  | -        | - | 90,0      | 75,5  | 38,7      | 106,0 | 86,5      | 106,0 | 86,5  | 103,8 | 83,5                                                                                | 42 |  |  |
| 46                                                                                                                                                                               | 31,5  | 95,6                                                                                      | 80,0  | 58,0                                                                                     | 30,2  | 90,5                                                                                       | 77,6  | -        | - | 85,0      | 71,8  | 32,3      | 100,6 | 82,5      | 100,6 | 82,5  | 97,5  | 79,5                                                                                | 46 |  |  |
| 50                                                                                                                                                                               | 26,1  | 90,6                                                                                      | 76,3  | 56,0                                                                                     | 24,9  | 86,0                                                                                       | 74,3  | -        | - | 80,5      | 68,5  | 26,6      | 95,5  | 78,8      | 95,5  | 78,8  | 92,5  | 75,8                                                                                | 50 |  |  |
| 54                                                                                                                                                                               | 21,4  | 86,0                                                                                      | 73,0  | 54,0                                                                                     | 20,2  | 82,0                                                                                       | 71,0  | -        | - | 76,5      | 65,5  | 21,7      | 90,5  | 75,5      | 90,5  | 75,5  | 87,8  | 72,5                                                                                | 54 |  |  |
| 58                                                                                                                                                                               | 17,6  | 82,0                                                                                      | 70,3  | 52,3                                                                                     | 16,5  | 78,3                                                                                       | 68,3  | -        | - | 73,1      | 62,8  | 17,7      | 86,5  | 72,5      | 86,5  | 72,5  | 83,5  | 69,5                                                                                | 58 |  |  |
| 62                                                                                                                                                                               | 14,3  | 78,3                                                                                      | 67,6  | 51,0                                                                                     | 13,2  | 74,8                                                                                       | 65,6  | -        | - | 70,0      | 60,5  | 14,2      | 82,8  | 69,8      | 82,8  | 69,8  | 79,8  | 67,1                                                                                | 62 |  |  |
| 66                                                                                                                                                                               | 11,4  | 75,0                                                                                      | 65,0  | 50,0                                                                                     | 10,3  | 71,5                                                                                       | 63,0  | -        | - | 67,0      | 58,5  | 11,1      | 79,5  | 67,5      | 79,5  | 67,5  | 76,5  | 65,0                                                                                | 66 |  |  |
| 70                                                                                                                                                                               | 9,0   | 72,3                                                                                      | 63,0  | 48,9                                                                                     | 7,9   | 68,8                                                                                       | 61,0  | -        | - | 64,5      | 56,5  | 8,5       | 76,5  | 65,5      | 76,5  | 65,5  | 73,5  | 63,0                                                                                | 70 |  |  |
| 74                                                                                                                                                                               | 6,8   | 69,6                                                                                      | 61,1  | 47,9                                                                                     | 5,7   | 66,1                                                                                       | 59,1  | -        | - | 62,0      | 54,6  | 6,2       | 73,8  | 63,7      | 73,8  | 63,7  | 70,8  | 61,0                                                                                | 74 |  |  |
| 78                                                                                                                                                                               | 4,8   | 67,0                                                                                      | 59,5  | 47,1                                                                                     | 3,8   | 63,5                                                                                       | 57,5  | -        | - | 60,0      | 53,0  | 4,2       | 71,0  | 62,0      | 71,0  | 62,0  | 68,5  | 59,2                                                                                | 78 |  |  |
| 79                                                                                                                                                                               | 4,3   | 66,5                                                                                      | 59,0  | 46,9                                                                                     | -     | 63,0                                                                                       | 57,0  | -        | - | 59,5      | 52,7  | 3,7       | 70,5  | 61,6      | 70,5  | 61,6  | 68,0  | 58,8                                                                                | 79 |  |  |
| 81                                                                                                                                                                               | 3,5   | 65,5                                                                                      | 58,2  | 46,5                                                                                     | -     | 62,2                                                                                       | 56,2  | -        | - | 58,5      | 52,2  | -         | 69,5  | 61,0      | 69,5  | 61,0  | 67,0  | 58,2                                                                                | 81 |  |  |
| 82                                                                                                                                                                               | -     | 65,0                                                                                      | 57,8  | 46,4                                                                                     | -     | 61,8                                                                                       | 55,8  | -        | - | 58,0      | 52,0  | -         | 69,0  | 60,6      | 69,0  | 60,6  | 66,5  | 58,0                                                                                | 82 |  |  |
| 86                                                                                                                                                                               | -     | 63,1                                                                                      | 56,5  | -                                                                                        | -     | 60,1                                                                                       | 54,5  | -        | - | 56,3      | 50,9  | -         | 67,1  | 59,3      | 67,1  | 59,3  | 64,5  | 56,6                                                                                | 86 |  |  |
| 90                                                                                                                                                                               | -     | 61,5                                                                                      | 55,5  | -                                                                                        | -     | 58,5                                                                                       | 53,5  | -        | - | 55,0      | 49,9  | -         | 65,5  | 58,0      | 65,5  | 58,0  | 62,8  | 55,6                                                                                | 90 |  |  |
| 93                                                                                                                                                                               | -     | 60,5                                                                                      | 55,0  | -                                                                                        | -     | 57,7                                                                                       | 53,0  | -        | - | 54,2      | 49,3  | -         | 64,5  | 57,5      | 64,5  | 57,5  | 61,8  | 55,0                                                                                | 93 |  |  |
| 94                                                                                                                                                                               | -     | 60,1                                                                                      | -     | -                                                                                        | -     | 57,5                                                                                       | -     | -        | - | 54,0      | -     | -         | 64,1  | -         | 64,1  | -     | 61,5  | -                                                                                   | 94 |  |  |
| 96                                                                                                                                                                               | -     | 59,5                                                                                      | -     | -                                                                                        | -     | 57,0                                                                                       | -     | -        | - | 53,5      | -     | -         | 63,5  | -         | 63,5  | -     | 60,5  | -                                                                                   | 96 |  |  |

 0 t   65 t   95 t   125 t   165 t   205 t   265 t   325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_10:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

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| 165 t +  50 t |   |           |   |  11-21 m |   |           |   |  8,40 m |   |          |       |  9.8 m/s |       |          |       | 360°      |       |           |       | EN13000   |   |     |  |                                                                                     |  |
|------------------------------------------------------------------------------------------------|---|-----------|---|-------------------------------------------------------------------------------------------|---|-----------|---|------------------------------------------------------------------------------------------|---|----------|-------|--------------------------------------------------------------------------------------------|-------|----------|-------|-----------|-------|-----------|-------|-----------|---|-----|--|-------------------------------------------------------------------------------------|--|
|  99 m         |   |           |   |                                                                                           |   |           |   |                                                                                          |   |          |       |                                                                                            |       |          |       |           |       |           |       |           |   |     |  |                                                                                     |  |
| LSL+LF_2                                                                                       |   |           |   | LSL+LF_3                                                                                  |   |           |   | LSL+LF_4                                                                                 |   | LSL+LF_6 |       |                                                                                            |       | LSL+LF_8 |       |           |       | LSL+LF_10 |       | LSL+LF_14 |   |     |  |                                                                                     |  |
|  12 m         |   |           |   |                                                                                           |   |           |   |                                                                                          |   |          |       |                                                                                            |       |          |       |           |       |           |       |           |   |     |  |                                                                                     |  |
|  0 t          |   | 0 t-325 t |   | 0 t                                                                                       |   | 0 t-325 t |   |                                                                                          |   | 0 t      |       | 0 t-325 t                                                                                  |       | 0 t      |       | 0 t-325 t |       |           |       |           |   |     |  |  |  |
| 15°                                                                                            |   | 20°       |   | 30°                                                                                       |   | 15°       |   | 20°                                                                                      |   | 15°      |       | 20°                                                                                        |       | 15°      |       | 20°       |       | 15°       |       | 20°       |   | 15° |  | 20°                                                                                 |  |
| m                                                                                              | t | t         | t | t                                                                                         | t | t         | t | t                                                                                        | t | t        | t     | t                                                                                          | t     | t        | t     | t         | t     | t         | t     | t         | t | m   |  |                                                                                     |  |
| 15                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 122,0 | 154,0                                                                                      | -     | 135,0    | 178,0 | -         | 178,0 | -         | 178,0 | -         | - | 15  |  |                                                                                     |  |
| 16                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 114,0 | 151,0                                                                                      | 116,0 | 126,0    | 177,0 | 130,0     | 177,0 | 130,0     | 176,0 | 127,0     | - | 16  |  |                                                                                     |  |
| 18                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 101,0 | 143,0                                                                                      | 111,0 | 112,0    | 169,0 | 125,0     | 169,0 | 125,0     | 167,0 | 122,0     | - | 18  |  |                                                                                     |  |
| 20                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 90,0  | 137,0                                                                                      | 107,0 | 100,0    | 161,0 | 121,0     | 161,0 | 121,0     | 159,0 | 118,0     | - | 20  |  |                                                                                     |  |
| 22                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 81,2  | 131,0                                                                                      | 103,0 | 90,7     | 154,5 | 116,0     | 154,5 | 116,0     | 152,0 | 113,0     | - | 22  |  |                                                                                     |  |
| 24                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 72,5  | 125,0                                                                                      | 100,0 | 81,5     | 148,0 | 112,0     | 148,0 | 112,0     | 145,0 | 109,0     | - | 24  |  |                                                                                     |  |
| 26                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 66,0  | 120,5                                                                                      | 96,5  | 74,5     | 142,0 | 109,0     | 142,0 | 109,0     | 139,5 | 105,5     | - | 26  |  |                                                                                     |  |
| 28                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 59,5  | 116,0                                                                                      | 93,5  | 67,5     | 136,0 | 105,0     | 136,0 | 105,0     | 134,0 | 102,0     | - | 28  |  |                                                                                     |  |
| 30                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 54,3  | 111,5                                                                                      | 90,5  | 62,0     | 131,5 | 102,0     | 131,5 | 102,0     | 129,0 | 99,2      | - | 30  |  |                                                                                     |  |
| 34                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 44,9  | 103,5                                                                                      | 85,1  | 52,1     | 122,5 | 96,6      | 122,5 | 96,6      | 119,5 | 93,7      | - | 34  |  |                                                                                     |  |
| 38                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 37,4  | 97,1                                                                                       | 80,3  | 44,2     | 114,6 | 91,6      | 114,6 | 91,6      | 111,5 | 88,7      | - | 38  |  |                                                                                     |  |
| 42                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 30,9  | 91,5                                                                                       | 76,0  | 37,2     | 108,0 | 87,0      | 108,0 | 87,0      | 105,0 | 84,3      | - | 42  |  |                                                                                     |  |
| 46                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 25,6  | 86,5                                                                                       | 72,6  | 31,1     | 102,3 | 83,3      | 102,3 | 83,3      | 99,0  | 80,0      | - | 46  |  |                                                                                     |  |
| 50                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 20,6  | 81,8                                                                                       | 69,5  | 25,6     | 97,0  | 79,8      | 97,0  | 79,8      | 94,0  | 76,6      | - | 50  |  |                                                                                     |  |
| 54                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 15,9  | 77,5                                                                                       | 66,5  | 20,6     | 92,0  | 76,5      | 92,0  | 76,5      | 89,3  | 73,5      | - | 54  |  |                                                                                     |  |
| 58                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 12,2  | 74,1                                                                                       | 63,8  | 16,6     | 88,0  | 73,5      | 88,0  | 73,5      | 85,0  | 70,5      | - | 58  |  |                                                                                     |  |
| 62                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 8,9   | 71,0                                                                                       | 61,3  | 13,1     | 84,1  | 70,8      | 84,1  | 70,8      | 81,3  | 68,1      | - | 62  |  |                                                                                     |  |
| 66                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 5,9   | 68,0                                                                                       | 59,0  | 10,0     | 80,5  | 68,5      | 80,5  | 68,5      | 78,0  | 65,8      | - | 66  |  |                                                                                     |  |
| 69                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | 4,0   | 66,1                                                                                       | 57,7  | 8,1      | 78,2  | 67,0      | 78,2  | 67,0      | 75,7  | 64,0      | - | 69  |  |                                                                                     |  |
| 70                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 65,4                                                                                       | 57,3  | 7,4      | 77,5  | 66,5      | 77,5  | 66,5      | 75,0  | 63,5      | - | 70  |  |                                                                                     |  |
| 74                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 63,0                                                                                       | 55,6  | 5,1      | 74,8  | 64,5      | 75,0  | 64,5      | 72,3  | 61,8      | - | 74  |  |                                                                                     |  |
| 77                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 61,5                                                                                       | 54,4  | 3,5      | 73,0  | 63,0      | 73,1  | 63,0      | 70,0  | 60,5      | - | 77  |  |                                                                                     |  |
| 78                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 61,0                                                                                       | 54,0  | -        | 72,5  | 62,5      | 72,5  | 62,5      | 69,5  | 60,0      | - | 78  |  |                                                                                     |  |
| 82                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 59,0                                                                                       | 52,6  | -        | 70,1  | 61,1      | 70,1  | 61,1      | 67,5  | 58,5      | - | 82  |  |                                                                                     |  |
| 86                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 57,1                                                                                       | 51,3  | -        | 68,1  | 59,8      | 68,1  | 59,8      | 65,5  | 57,1      | - | 86  |  |                                                                                     |  |
| 90                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 55,5                                                                                       | 50,0  | -        | 66,5  | 58,5      | 66,5  | 58,5      | 63,6  | 56,0      | - | 90  |  |                                                                                     |  |
| 94                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 54,5                                                                                       | 49,5  | -        | 64,8  | 57,8      | 64,8  | 57,8      | 62,0  | 55,0      | - | 94  |  |                                                                                     |  |
| 96                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 54,0                                                                                       | 49,2  | -        | 64,0  | 57,5      | 64,0  | 57,5      | 61,2  | 55,0      | - | 96  |  |                                                                                     |  |
| 98                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 53,3                                                                                       | -     | -        | 62,6  | -         | 62,0  | -         | 60,4  | -         | - | 98  |  |                                                                                     |  |
| 99                                                                                             | - | -         | - | -                                                                                         | - | -         | - | -                                                                                        | - | -        | -     | 53,0                                                                                       | -     | -        | 62,0  | -         | 61,0  | -         | 60,0  | -         | - | 99  |  |                                                                                     |  |

 0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_10:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t



# Operation

LSL+LF

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| 165 t +  50 t |       |          |       |  11-21 m |       |       |       |  8,40 m |       |          |       |  9.8 m/s |       |       |       | 360°      |       | EN13000   |       |       |       |     |  |     |  |
|------------------------------------------------------------------------------------------------|-------|----------|-------|-------------------------------------------------------------------------------------------|-------|-------|-------|------------------------------------------------------------------------------------------|-------|----------|-------|--------------------------------------------------------------------------------------------|-------|-------|-------|-----------|-------|-----------|-------|-------|-------|-----|--|-----|--|
| 102 m                                                                                          |       |          |       |                                                                                           |       |       |       |                                                                                          |       |          |       |                                                                                            |       |       |       |           |       |           |       |       |       |     |  |     |  |
| LSL+LF_2                                                                                       |       |          |       | LSL+LF_3                                                                                  |       |       |       | LSL+LF_4                                                                                 |       | LSL+LF_6 |       | LSL+LF_8                                                                                   |       |       |       | LSL+LF_10 |       | LSL+LF_14 |       |       |       |     |  |     |  |
| 12 m                                                                                           |       |          |       |                                                                                           |       |       |       |                                                                                          |       |          |       |                                                                                            |       |       |       |           |       |           |       |       |       |     |  |     |  |
| 0 t                                                                                            |       | 0 t-325t |       |                                                                                           |       | 0 t   |       | 0 t-325t                                                                                 |       |          |       |                                                                                            |       | 0 t   |       | 0 t-325t  |       |           |       |       |       |     |  |     |  |
| 15°                                                                                            |       | 20°      |       | 30°                                                                                       |       | 15°   |       | 20°                                                                                      |       | 15°      |       | 20°                                                                                        |       | 15°   |       | 20°       |       | 15°       |       | 20°   |       | 15° |  | 20° |  |
| m                                                                                              | t     | t        | t     | t                                                                                         | t     | t     | t     | t                                                                                        | t     | t        | t     | t                                                                                          | t     | t     | t     | t         | t     | t         | t     | t     | t     | m   |  |     |  |
| 15                                                                                             | 126,0 | 147,0    | -     | -                                                                                         | -     | -     | -     | 143,0                                                                                    | -     | 155,0    | -     | 132,0                                                                                      | 178,0 | -     | 178,0 | -         | 178,0 | -         | 178,0 | -     | 178,0 | 15  |  |     |  |
| 16                                                                                             | 118,0 | 147,0    | 130,0 | -                                                                                         | 116,0 | 139,0 | 120,0 | 141,0                                                                                    | 124,0 | 152,0    | 117,0 | 124,0                                                                                      | 178,0 | 131,0 | 178,0 | 131,0     | 177,0 | 128,0     | 168,0 | 123,0 | 168,0 | 16  |  |     |  |
| 18                                                                                             | 105,0 | 146,0    | 125,0 | 80,5                                                                                      | 103,0 | 137,0 | 118,0 | 139,0                                                                                    | 122,0 | 144,0    | 112,0 | 110,0                                                                                      | 170,0 | 126,0 | 170,0 | 126,0     | 168,0 | 123,0     | 168,0 | 123,0 | 168,0 | 18  |  |     |  |
| 20                                                                                             | 94,0  | 145,0    | 120,0 | 78,0                                                                                      | 92,5  | 134,0 | 114,0 | 137,0                                                                                    | 119,0 | 138,0    | 108,0 | 98,5                                                                                       | 162,0 | 121,0 | 162,0 | 121,0     | 160,0 | 118,0     | 160,0 | 118,0 | 160,0 | 20  |  |     |  |
| 22                                                                                             | 85,0  | 144,0    | 116,0 | 76,0                                                                                      | 83,7  | 131,0 | 110,0 | 133,5                                                                                    | 115,0 | 132,0    | 104,0 | 89,2                                                                                       | 155,5 | 117,0 | 155,5 | 117,0     | 153,0 | 114,0     | 153,0 | 114,0 | 153,0 | 22  |  |     |  |
| 24                                                                                             | 76,5  | 141,0    | 112,0 | 74,0                                                                                      | 75,0  | 128,0 | 107,0 | 130,0                                                                                    | 111,0 | 126,0    | 100,0 | 80,0                                                                                       | 149,0 | 113,0 | 149,0 | 113,0     | 147,0 | 110,0     | 147,0 | 110,0 | 147,0 | 24  |  |     |  |
| 26                                                                                             | 69,5  | 137,0    | 108,0 | 72,5                                                                                      | 68,5  | 124,5 | 104,0 | 126,0                                                                                    | 107,0 | 121,5    | 97,0  | 72,7                                                                                       | 143,5 | 110,0 | 143,5 | 110,0     | 141,0 | 106,5     | 141,0 | 106,5 | 141,0 | 26  |  |     |  |
| 28                                                                                             | 63,5  | 132,0    | 105,0 | 70,5                                                                                      | 62,0  | 121,0 | 101,0 | 122,0                                                                                    | 104,0 | 117,0    | 94,0  | 65,5                                                                                       | 138,0 | 106,0 | 138,0 | 106,0     | 135,0 | 103,0     | 135,0 | 103,0 | 135,0 | 28  |  |     |  |
| 30                                                                                             | 58,0  | 127,0    | 102,0 | 69,0                                                                                      | 56,7  | 117,5 | 98,0  | 118,5                                                                                    | 101,0 | 113,0    | 91,0  | 60,2                                                                                       | 133,0 | 103,0 | 133,0 | 103,0     | 130,0 | 100,2     | 130,0 | 100,2 | 130,0 | 30  |  |     |  |
| 34                                                                                             | 49,2  | 118,3    | 96,0  | 66,0                                                                                      | 47,5  | 111,0 | 92,3  | 111,5                                                                                    | 95,6  | 105,0    | 86,0  | 50,5                                                                                       | 124,0 | 97,6  | 124,0 | 97,6      | 121,0 | 94,7      | 121,0 | 94,7  | 121,0 | 34  |  |     |  |
| 38                                                                                             | 41,6  | 110,6    | 90,6  | 63,3                                                                                      | 40,3  | 105,1 | 87,3  | 105,0                                                                                    | 90,6  | 98,1     | 81,3  | 42,6                                                                                       | 116,3 | 92,6  | 116,3 | 92,6      | 113,5 | 89,7      | 113,5 | 89,7  | 113,5 | 38  |  |     |  |
| 42                                                                                             | 35,1  | 104,0    | 86,0  | 61,0                                                                                      | 33,8  | 99,5  | 83,0  | 99,0                                                                                     | 86,0  | 92,5     | 77,0  | 35,7                                                                                       | 109,0 | 88,0  | 109,0 | 88,0      | 106,6 | 85,3      | 106,6 | 85,3  | 106,6 | 42  |  |     |  |
| 46                                                                                             | 29,5  | 98,6     | 82,0  | 58,6                                                                                      | 28,4  | 93,8  | 79,3  | 93,6                                                                                     | 82,0  | 87,5     | 73,3  | 29,9                                                                                       | 103,6 | 84,3  | 103,6 | 84,3      | 100,0 | 81,0      | 100,0 | 81,0  | 100,0 | 46  |  |     |  |
| 50                                                                                             | 24,4  | 93,5     | 78,3  | 56,6                                                                                      | 23,3  | 88,6  | 76,0  | 88,8                                                                                     | 78,1  | 83,0     | 70,0  | 24,5                                                                                       | 98,5  | 80,8  | 98,5  | 80,8      | 95,3  | 77,6      | 95,3  | 77,6  | 95,3  | 50  |  |     |  |
| 54                                                                                             | 19,6  | 88,5     | 75,0  | 55,0                                                                                      | 18,6  | 84,0  | 73,0  | 84,5                                                                                     | 74,5  | 79,0     | 67,0  | 19,5                                                                                       | 93,5  | 77,5  | 93,5  | 77,5      | 90,8  | 74,5      | 90,8  | 74,5  | 90,8  | 54  |  |     |  |
| 58                                                                                             | 15,9  | 84,5     | 72,0  | 53,3                                                                                      | 14,9  | 80,6  | 70,3  | 80,8                                                                                     | 71,5  | 75,3     | 64,3  | 15,5                                                                                       | 89,5  | 74,5  | 89,5  | 74,5      | 86,5  | 71,5      | 86,5  | 71,5  | 86,5  | 58  |  |     |  |
| 62                                                                                             | 12,6  | 80,8     | 69,3  | 51,8                                                                                      | 11,6  | 77,3  | 67,6  | 77,3                                                                                     | 68,8  | 72,0     | 62,0  | 12,0                                                                                       | 85,6  | 71,8  | 85,6  | 71,8      | 82,5  | 68,8      | 82,5  | 68,8  | 82,5  | 62  |  |     |  |
| 66                                                                                             | 9,6   | 77,5     | 67,0  | 50,5                                                                                      | 8,7   | 74,0  | 65,0  | 74,0                                                                                     | 66,5  | 69,0     | 60,0  | 8,9                                                                                        | 82,0  | 69,5  | 82,0  | 69,5      | 79,0  | 66,5      | 79,0  | 66,5  | 79,0  | 66  |  |     |  |
| 70                                                                                             | 7,2   | 74,5     | 64,6  | 49,5                                                                                      | 6,3   | 71,0  | 63,0  | 71,3                                                                                     | 64,5  | 66,4     | 58,0  | 6,3                                                                                        | 79,0  | 67,1  | 79,0  | 67,1      | 76,0  | 64,5      | 76,0  | 64,5  | 76,0  | 70  |  |     |  |
| 74                                                                                             | 4,9   | 71,7     | 62,7  | 48,6                                                                                      | 4,0   | 68,5  | 61,0  | 68,6                                                                                     | 62,5  | 64,0     | 56,1  | 4,0                                                                                        | 76,0  | 65,1  | 75,9  | 65,1      | 73,3  | 62,5      | 73,3  | 62,5  | 73,3  | 74  |  |     |  |
| 75                                                                                             | 4,4   | 71,1     | 62,3  | 48,4                                                                                      | 3,5   | 68,0  | 60,5  | 68,0                                                                                     | 62,0  | 63,5     | 55,7  | -                                                                                          | 75,3  | 64,7  | 75,3  | 64,7      | 72,6  | 62,0      | 72,6  | 62,0  | 72,6  | 75  |  |     |  |
| 76                                                                                             | 3,9   | 70,5     | 61,9  | 48,1                                                                                      | -     | 67,3  | 60,0  | 67,3                                                                                     | 61,5  | 63,0     | 55,3  | -                                                                                          | 74,7  | 64,3  | 74,7  | 64,3      | 72,0  | 61,5      | 72,0  | 61,5  | 72,0  | 76  |  |     |  |
| 78                                                                                             | -     | 69,5     | 61,0  | 47,7                                                                                      | -     | 66,0  | 59,0  | 66,0                                                                                     | 60,5  | 62,0     | 54,5  | -                                                                                          | 73,5  | 63,5  | 73,5  | 63,5      | 70,8  | 60,6      | 70,8  | 60,6  | 70,8  | 78  |  |     |  |
| 82                                                                                             | -     | 67,1     | 59,3  | 46,9                                                                                      | -     | 64,0  | 57,6  | 64,0                                                                                     | 58,8  | 60,0     | 53,1  | -                                                                                          | 71,1  | 61,8  | 71,1  | 61,8      | 68,5  | 59,0      | 68,5  | 59,0  | 68,5  | 82  |  |     |  |
| 86                                                                                             | -     | 65,1     | 57,8  | 46,3                                                                                      | -     | 62,1  | 56,3  | 62,1                                                                                     | 57,3  | 58,1     | 51,8  | -                                                                                          | 69,0  | 60,3  | 69,0  | 60,3      | 66,5  | 57,6      | 66,5  | 57,6  | 66,5  | 86  |  |     |  |
| 87                                                                                             | -     | 64,7     | 57,5  | 46,1                                                                                      | -     | 61,7  | 56,0  | 61,7                                                                                     | 57,0  | 57,7     | 51,5  | -                                                                                          | 68,5  | 60,0  | 68,5  | 60,0      | 66,0  | 57,3      | 66,0  | 57,3  | 66,0  | 87  |  |     |  |
| 90                                                                                             | -     | 63,5     | 56,5  | -                                                                                         | -     | 60,5  | 55,0  | 60,5                                                                                     | 56,0  | 56,5     | 50,5  | -                                                                                          | 67,0  | 59,0  | 67,0  | 59,0      | 64,6  | 56,5      | 64,6  | 56,5  | 64,6  | 90  |  |     |  |
| 94                                                                                             | -     | 60,8     | 55,5  | -                                                                                         | -     | 58,8  | 54,0  | 58,8                                                                                     | 55,0  | 55,1     | 49,9  | -                                                                                          | 64,6  | 58,0  | 64,3  | 58,0      | 63,0  | 55,5      | 63,0  | 55,5  | 63,0  | 94  |  |     |  |
| 98                                                                                             | -     | 57,8     | 54,5  | -                                                                                         | -     | 56,6  | 53,0  | 56,3                                                                                     | 54,0  | 53,5     | 49,2  | -                                                                                          | 61,6  | 57,5  | 61,1  | 57,5      | 59,6  | 55,0      | 59,6  | 55,0  | 59,6  | 98  |  |     |  |
| 99                                                                                             | -     | 57,0     | 35,6  | -                                                                                         | -     | 56,0  | -     | 55,5                                                                                     | 22,3  | 53,0     | -     | -                                                                                          | 60,7  | -     | 60,2  | -         | 58,8  | -         | 58,8  | -     | 58,8  | 99  |  |     |  |
| 102                                                                                            | -     | 54,5     | -     | -                                                                                         | -     | 54,0  | -     | 53,0                                                                                     | -     | 50,5     | -     | -                                                                                          | 58,0  | -     | 57,5  | -         | 56,5  | -         | 56,5  | -     | 56,5  | 102 |  |     |  |



# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
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|  165 t +  50 t |   |             |   |  11-21 m |   |                                                                                       |   |  8,40 m |       |       |       |  9.8 m/s |       |       |       | 360°                                                                                   |       |             |       | EN13000   |   |     |  |                                                                                     |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------|---|-------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------|-------|-------|-------|--------------------------------------------------------------------------------------------|-------|-------|-------|----------------------------------------------------------------------------------------|-------|-------------|-------|-----------|---|-----|--|-------------------------------------------------------------------------------------|--|--|--|
|  105 m                                                                                          |   |             |   |                                                                                           |   |                                                                                       |   |                                                                                          |       |       |       |                                                                                            |       |       |       |                                                                                        |       |             |       |           |   |     |  |                                                                                     |  |  |  |
| LSL+LF_2                                                                                                                                                                         |   |             |   | LSL+LF_3                                                                                  |   |                                                                                       |   | LSL+LF_4                                                                                 |       |       |       | LSL+LF_6                                                                                   |       |       |       | LSL+LF_8                                                                               |       |             |       | LSL+LF_10 |   |     |  | LSL+LF_14                                                                           |  |  |  |
|  12 m                                                                                           |   |             |   |                                                                                           |   |                                                                                       |   |                                                                                          |       |       |       |                                                                                            |       |       |       |                                                                                        |       |             |       |           |   |     |  |                                                                                     |  |  |  |
|  0 t                                                                                            |   | 0 t - 325 t |   |                                                                                           |   |  0 t |   | 0 t - 325 t                                                                              |       | 0 t   |       | 0 t - 325 t                                                                                |       |       |       |  0 t |       | 0 t - 325 t |       |           |   |     |  |  |  |  |  |
| 15°                                                                                                                                                                              |   | 20°         |   | 30°                                                                                       |   | 15°                                                                                   |   | 20°                                                                                      |       | 15°   |       | 20°                                                                                        |       | 15°   |       | 20°                                                                                    |       | 15°         |       | 20°       |   | 15° |  | 20°                                                                                 |  |  |  |
| m                                                                                                                                                                                | t | t           | t | t                                                                                         | t | t                                                                                     | t | t                                                                                        | t     | t     | t     | t                                                                                          | t     | t     | t     | t                                                                                      | t     | t           | t     | t         | t | m   |  |                                                                                     |  |  |  |
| 15                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 119,0                                                                                    | 136,0 | -     | 152,0 | -                                                                                          | 129,0 | 176,0 | -     | 178,0                                                                                  | -     | 178,0       | -     | -         | - | 15  |  |                                                                                     |  |  |  |
| 16                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 112,0                                                                                    | 135,0 | 123,0 | 152,0 | 117,0                                                                                      | 121,0 | 176,0 | 131,0 | 178,0                                                                                  | 131,0 | 178,0       | 128,0 | -         | - | 16  |  |                                                                                     |  |  |  |
| 18                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 99,5                                                                                     | 132,0 | 121,0 | 146,0 | 113,0                                                                                      | 107,0 | 171,0 | 126,0 | 171,0                                                                                  | 126,0 | 170,0       | 124,0 | -         | - | 18  |  |                                                                                     |  |  |  |
| 20                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 89,0                                                                                     | 130,0 | 119,0 | 139,0 | 108,0                                                                                      | 96,0  | 164,0 | 122,0 | 164,0                                                                                  | 122,0 | 162,0       | 119,0 | -         | - | 20  |  |                                                                                     |  |  |  |
| 22                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 80,2                                                                                     | 127,5 | 115,0 | 133,5 | 105,0                                                                                      | 86,7  | 157,5 | 118,0 | 157,5                                                                                  | 118,0 | 155,0       | 115,0 | -         | - | 22  |  |                                                                                     |  |  |  |
| 24                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 71,5                                                                                     | 125,0 | 111,0 | 128,0 | 101,0                                                                                      | 77,5  | 151,0 | 114,0 | 151,0                                                                                  | 114,0 | 148,0       | 111,0 | -         | - | 24  |  |                                                                                     |  |  |  |
| 26                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 65,2                                                                                     | 122,0 | 108,0 | 123,0 | 98,0                                                                                       | 70,7  | 145,0 | 110,0 | 145,0                                                                                  | 110,0 | 142,5       | 107,5 | -         | - | 26  |  |                                                                                     |  |  |  |
| 28                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 59,0                                                                                     | 119,0 | 105,0 | 118,0 | 95,0                                                                                       | 64,0  | 139,0 | 107,0 | 139,0                                                                                  | 107,0 | 137,0       | 104,0 | -         | - | 28  |  |                                                                                     |  |  |  |
| 30                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 53,9                                                                                     | 116,5 | 101,0 | 114,0 | 92,0                                                                                       | 58,5  | 134,5 | 104,0 | 134,5                                                                                  | 104,0 | 132,0       | 101,2 | -         | - | 30  |  |                                                                                     |  |  |  |
| 34                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 44,8                                                                                     | 111,5 | 96,0  | 106,5 | 87,0                                                                                       | 48,7  | 125,5 | 98,6  | 125,5                                                                                  | 98,6  | 122,5       | 95,7  | -         | - | 34  |  |                                                                                     |  |  |  |
| 38                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 37,5                                                                                     | 106,0 | 91,3  | 100,0 | 82,3                                                                                       | 41,0  | 117,6 | 93,6  | 117,6                                                                                  | 93,6  | 114,5       | 90,5  | -         | - | 38  |  |                                                                                     |  |  |  |
| 42                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 31,1                                                                                     | 100,0 | 87,0  | 94,0  | 78,0                                                                                       | 34,2  | 111,0 | 89,0  | 111,0                                                                                  | 89,0  | 108,0       | 86,0  | -         | - | 42  |  |                                                                                     |  |  |  |
| 46                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 26,1                                                                                     | 94,6  | 83,0  | 89,0  | 74,3                                                                                       | 28,6  | 105,0 | 85,0  | 105,0                                                                                  | 85,0  | 102,0       | 82,0  | -         | - | 46  |  |                                                                                     |  |  |  |
| 50                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 21,2                                                                                     | 89,1  | 79,1  | 84,3  | 71,0                                                                                       | 23,4  | 99,6  | 81,3  | 99,6                                                                                   | 81,3  | 96,6        | 78,6  | -         | - | 50  |  |                                                                                     |  |  |  |
| 54                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 16,6                                                                                     | 83,5  | 75,5  | 80,0  | 68,0                                                                                       | 18,4  | 95,0  | 78,0  | 95,0                                                                                   | 78,0  | 91,8        | 75,5  | -         | - | 54  |  |                                                                                     |  |  |  |
| 58                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 12,8                                                                                     | 80,1  | 72,5  | 76,3  | 65,3                                                                                       | 14,4  | 90,6  | 75,3  | 90,6                                                                                   | 75,3  | 87,5        | 72,5  | -         | - | 58  |  |                                                                                     |  |  |  |
| 62                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 9,5                                                                                      | 76,8  | 69,6  | 73,0  | 62,8                                                                                       | 10,9  | 86,6  | 72,6  | 86,6                                                                                   | 72,6  | 83,8        | 69,8  | -         | - | 62  |  |                                                                                     |  |  |  |
| 66                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 6,6                                                                                      | 73,5  | 67,0  | 70,0  | 60,5                                                                                       | 7,8   | 83,0  | 70,0  | 83,0                                                                                   | 70,0  | 80,3        | 67,3  | -         | - | 66  |  |                                                                                     |  |  |  |
| 70                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 4,2                                                                                      | 70,7  | 65,0  | 67,3  | 58,5                                                                                       | 5,2   | 80,2  | 68,0  | 80,2                                                                                   | 68,0  | 77,0        | 65,0  | -         | - | 70  |  |                                                                                     |  |  |  |
| 71                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | 3,6                                                                                      | 70,0  | 64,5  | 66,6  | 58,0                                                                                       | 4,5   | 79,5  | 67,5  | 79,5                                                                                   | 67,5  | 76,3        | 64,5  | -         | - | 71  |  |                                                                                     |  |  |  |
| 72                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 69,5  | 64,0  | 66,0  | 57,5                                                                                       | 3,9   | 78,5  | 67,0  | 78,5                                                                                   | 67,0  | 75,7        | 64,0  | -         | - | 72  |  |                                                                                     |  |  |  |
| 74                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 68,1  | 63,1  | 64,8  | 56,6                                                                                       | -     | 77,1  | 66,0  | 77,1                                                                                   | 66,0  | 74,5        | 63,0  | -         | - | 74  |  |                                                                                     |  |  |  |
| 78                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 65,5  | 61,5  | 62,5  | 55,0                                                                                       | -     | 74,5  | 64,0  | 74,5                                                                                   | 64,0  | 71,8        | 61,6  | -         | - | 78  |  |                                                                                     |  |  |  |
| 82                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 63,1  | 59,3  | 60,5  | 53,6                                                                                       | -     | 72,1  | 62,3  | 72,1                                                                                   | 62,3  | 69,5        | 60,0  | -         | - | 82  |  |                                                                                     |  |  |  |
| 86                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 61,1  | 57,8  | 58,8  | 52,3                                                                                       | -     | 70,0  | 61,0  | 70,0                                                                                   | 61,0  | 67,5        | 58,6  | -         | - | 86  |  |                                                                                     |  |  |  |
| 90                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 59,5  | 56,5  | 57,5  | 51,0                                                                                       | -     | 68,0  | 60,0  | 68,0                                                                                   | 60,0  | 65,3        | 57,3  | -         | - | 90  |  |                                                                                     |  |  |  |
| 94                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 57,8  | 55,5  | 55,8  | 50,3                                                                                       | -     | 64,3  | 58,6  | 64,0                                                                                   | 58,6  | 63,0        | 56,0  | -         | - | 94  |  |                                                                                     |  |  |  |
| 98                                                                                                                                                                               | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 55,3  | 54,2  | 53,2  | 49,6                                                                                       | -     | 60,6  | 57,6  | 60,1                                                                                   | 57,6  | 59,0        | 55,3  | -         | - | 98  |  |                                                                                     |  |  |  |
| 101                                                                                                                                                                              | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 52,8  | 47,9  | 50,6  | 49,1                                                                                       | -     | 57,9  | 57,0  | 57,4                                                                                   | 57,0  | 56,1        | 54,5  | -         | - | 101 |  |                                                                                     |  |  |  |
| 102                                                                                                                                                                              | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 52,0  | -     | 49,8  | -                                                                                          | -     | 57,0  | -     | 56,5                                                                                   | -     | 55,3        | -     | -         | - | 102 |  |                                                                                     |  |  |  |
| 104                                                                                                                                                                              | - | -           | - | -                                                                                         | - | -                                                                                     | - | -                                                                                        | 50,5  | -     | 48,2  | -                                                                                          | -     | 55,5  | -     | 55,0                                                                                   | -     | 53,5        | -     | -         | - | 104 |  |                                                                                     |  |  |  |

# Operation

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Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  165 t +  50 t            11-21 m            8,40 m            9.8 m/s           360°           EN13000         </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----|
| <div>  108 m            12 m            0 t            0 t - 325 t            0 t            0 t - 325 t            0 t            0 t - 325 t            0 t         </div>                                                                                                                                                                              |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| <div>  15°            20°            30°            15°            20°            15°            20°            15°            20°            15°            20°         </div> |       |       |       |      |       |       |       |       |       |       |       |       |       |       |       |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | t     | t     | t     | t    | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | m   |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 120,0 | 138,0 | -     | -    | -     | -     | -     | 141,0 | -     | 149,0 | -     | 126,0 | 171,0 | -     | 177,0 | -     | 178,0 | -     | 15  |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 113,0 | 138,0 | 128,0 | -    | 111,0 | 138,0 | 117,0 | 140,0 | 121,0 | 148,0 | 118,0 | 119,0 | 171,0 | -     | 177,0 | -     | 178,0 | -     | 16  |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 106,5 | 138,0 | 127,0 | -    | 105,0 | 137,5 | 116,5 | 139,5 | 120,5 | 147,5 | 115,5 | 112,0 | 170,5 | 129,0 | 175,0 | 129,0 | 174,5 | 126,0 | 17  |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 100,0 | 138,0 | 126,0 | 81,0 | 99,0  | 137,0 | 116,0 | 139,0 | 120,0 | 147,0 | 113,0 | 105,0 | 170,0 | 127,0 | 173,0 | 127,0 | 171,0 | 124,0 | 18  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 90,0  | 137,0 | 122,0 | 78,5 | 88,5  | 136,0 | 114,0 | 138,0 | 118,0 | 140,0 | 109,0 | 94,0  | 165,0 | 123,0 | 165,0 | 123,0 | 163,0 | 120,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 81,0  | 137,0 | 118,0 | 76,5 | 80,0  | 134,0 | 111,0 | 136,0 | 115,0 | 134,5 | 105,0 | 85,0  | 158,5 | 119,0 | 158,5 | 119,0 | 156,0 | 116,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 73,0  | 136,0 | 114,0 | 75,0 | 71,5  | 132,0 | 108,0 | 134,0 | 112,0 | 129,0 | 102,0 | 76,0  | 152,0 | 115,0 | 152,0 | 115,0 | 150,0 | 112,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 66,0  | 135,0 | 110,0 | 73,0 | 65,2  | 129,0 | 105,0 | 130,5 | 109,0 | 124,0 | 98,5  | 69,2  | 146,5 | 111,0 | 146,5 | 111,0 | 144,0 | 108,5 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 60,0  | 133,0 | 107,0 | 71,5 | 59,0  | 126,0 | 102,0 | 127,0 | 106,0 | 119,0 | 95,5  | 62,5  | 141,0 | 108,0 | 141,0 | 108,0 | 138,0 | 105,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 54,5  | 130,0 | 103,0 | 69,5 | 54,0  | 123,5 | 99,5  | 124,0 | 103,0 | 115,0 | 93,0  | 57,2  | 136,0 | 105,0 | 136,0 | 105,0 | 133,0 | 102,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 46,1  | 121,3 | 97,6  | 66,8 | 44,9  | 118,0 | 94,1  | 118,0 | 97,6  | 107,5 | 87,6  | 47,6  | 127,0 | 99,6  | 127,0 | 99,6  | 124,0 | 96,5  | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 38,6  | 113,6 | 92,6  | 64,1 | 37,7  | 112,0 | 89,3  | 112,3 | 92,6  | 101,0 | 82,8  | 39,9  | 119,3 | 94,6  | 119,3 | 94,6  | 116,5 | 91,5  | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 32,2  | 107,0 | 88,0  | 61,5 | 31,3  | 106,0 | 85,0  | 107,0 | 88,0  | 95,0  | 78,5  | 33,1  | 112,0 | 90,0  | 112,0 | 90,0  | 109,6 | 87,0  | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 27,2  | 101,3 | 84,0  | 59,5 | 26,3  | 100,6 | 81,3  | 101,3 | 84,0  | 90,0  | 75,1  | 27,7  | 106,0 | 86,0  | 106,0 | 86,0  | 103,0 | 83,0  | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 22,3  | 96,1  | 80,1  | 57,6 | 21,4  | 95,1  | 78,0  | 95,5  | 80,1  | 85,3  | 71,8  | 22,6  | 100,6 | 82,3  | 100,6 | 82,3  | 98,0  | 79,3  | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 17,6  | 91,5  | 76,5  | 56,0 | 16,8  | 89,5  | 75,0  | 89,5  | 76,5  | 81,0  | 68,5  | 17,7  | 96,0  | 79,0  | 96,0  | 79,0  | 93,3  | 76,0  | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 13,8  | 87,1  | 73,8  | 54,3 | 13,1  | 85,5  | 72,0  | 85,8  | 73,5  | 77,3  | 65,8  | 13,7  | 92,0  | 76,0  | 92,0  | 76,0  | 89,0  | 73,0  | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 10,5  | 83,3  | 71,1  | 52,8 | 9,8   | 81,8  | 69,3  | 82,1  | 70,6  | 74,1  | 63,5  | 10,2  | 88,1  | 73,3  | 88,1  | 73,3  | 85,0  | 70,6  | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 7,5   | 80,0  | 68,5  | 51,5 | 6,8   | 78,5  | 67,0  | 78,5  | 68,0  | 71,0  | 61,5  | 7,1   | 84,5  | 71,0  | 84,5  | 71,0  | 81,5  | 68,3  | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5,0   | 77,0  | 66,1  | 50,3 | 4,4   | 75,7  | 64,6  | 75,6  | 66,0  | 68,3  | 59,5  | 4,4   | 81,3  | 68,6  | 81,1  | 68,6  | 78,5  | 66,0  | 70  |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 4,4   | 76,2  | 65,5  | 50,0 | 3,8   | 75,0  | 64,0  | 74,8  | 65,5  | 67,6  | 59,0  | 3,8   | 80,5  | 68,0  | 80,3  | 68,0  | 77,7  | 65,5  | 71  |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3,8   | 75,5  | 65,0  | 49,8 | -     | 74,0  | 63,5  | 74,0  | 65,0  | 67,0  | 58,5  | -     | 79,5  | 67,5  | 79,5  | 67,5  | 77,0  | 65,0  | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 74,1  | 64,1  | 49,3 | -     | 72,6  | 62,6  | 72,6  | 64,1  | 65,8  | 57,6  | -     | 78,1  | 66,6  | 78,1  | 66,6  | 75,5  | 64,0  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 71,5  | 62,5  | 48,3 | -     | 70,0  | 61,0  | 70,0  | 62,5  | 63,5  | 56,0  | -     | 75,5  | 65,0  | 75,5  | 65,0  | 72,8  | 62,1  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 69,1  | 60,8  | 47,5 | -     | 67,6  | 58,8  | 67,6  | 60,8  | 61,5  | 54,3  | -     | 73,1  | 63,3  | 73,1  | 63,3  | 70,5  | 60,5  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 66,5  | 59,3  | 46,7 | -     | 65,3  | 57,3  | 65,0  | 59,1  | 59,6  | 52,8  | -     | 70,8  | 61,8  | 70,6  | 61,8  | 68,5  | 59,1  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 63,5  | 58,0  | 46,1 | -     | 63,0  | 56,0  | 62,0  | 57,5  | 58,0  | 51,5  | -     | 68,5  | 60,5  | 68,0  | 60,5  | 65,8  | 57,8  | 90  |
| 91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 62,5  | 57,6  | 46,0 | -     | 62,0  | 55,7  | 61,0  | 57,2  | 57,5  | 51,5  | -     | 67,4  | 60,1  | 66,9  | 60,1  | 65,0  | 57,5  | 91  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 59,5  | 56,6  | -    | -     | 59,0  | 55,0  | 58,3  | 56,5  | 56,0  | 50,7  | -     | 64,1  | 59,1  | 63,6  | 59,1  | 62,5  | 56,5  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -     | 55,8  | 54,8  | -    | -     | 55,3  | 53,6  | 54,7  | 54,4  | 52,3  | 49,6  | -     | 60,1  | 57,8  | 59,6  | 57,6  | 58,5  | 55,5  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 52,5  | 52,5  | -    | -     | 52,0  | 52,0  | 51,0  | 51,0  | 48,9  | 49,0  | -     | 56,5  | 56,5  | 56,0  | 56,0  | 54,5  | 55,0  | 102 |
| 103                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 51,8  | 52,0  | -    | -     | 51,2  | 51,5  | 50,3  | 50,5  | 48,1  | 48,2  | -     | 55,5  | 55,5  | 55,0  | 55,0  | 53,5  | 54,0  | 103 |
| 104                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 51,1  | 35,5  | -    | -     | 50,5  | -     | 49,6  | 28,1  | 47,3  | -     | -     | 54,5  | -     | 54,2  | -     | 52,5  | -     | 104 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 49,7  | -     | -    | -     | 49,1  | -     | 48,2  | -     | 45,7  | -     | -     | 53,1  | -     | 52,7  | -     | 50,5  | -     | 106 |
| 107                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | -     | 48,9  | -     | -    | -     | 48,5  | -     | 47,5  | -     | 44,9  | -     | -     | 52,5  | -     | 52,0  | -     | 49,9  | -     | 107 |

|                                                                                     |     |      |      |       |       |       |       |       |
|-------------------------------------------------------------------------------------|-----|------|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 95 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|-------------------------------------------------------------------------------------|-----|------|------|-------|-------|-------|-------|-------|

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_10:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

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| 165 t +  50 t |   |          |   |  11-21 m |       |          |       |  8,40 m |       |          |       |  9.8 m/s |       |       |       | 360°      |       |           |       | EN13000 |  |                                                                                     |  |
|------------------------------------------------------------------------------------------------|---|----------|---|-------------------------------------------------------------------------------------------|-------|----------|-------|------------------------------------------------------------------------------------------|-------|----------|-------|--------------------------------------------------------------------------------------------|-------|-------|-------|-----------|-------|-----------|-------|---------|--|-------------------------------------------------------------------------------------|--|
|  111 m        |   |          |   |                                                                                           |       |          |       |                                                                                          |       |          |       |                                                                                            |       |       |       |           |       |           |       |         |  |                                                                                     |  |
| LSL+LF_2                                                                                       |   |          |   | LSL+LF_3                                                                                  |       |          |       | LSL+LF_4                                                                                 |       | LSL+LF_6 |       | LSL+LF_8                                                                                   |       |       |       | LSL+LF_10 |       | LSL+LF_14 |       |         |  |                                                                                     |  |
|  12 m         |   |          |   |                                                                                           |       |          |       |                                                                                          |       |          |       |                                                                                            |       |       |       |           |       |           |       |         |  |                                                                                     |  |
| 0 t                                                                                            |   | 0 t-325t |   | 0 t                                                                                       |       | 0 t-325t |       |                                                                                          |       |          |       |                                                                                            |       | 0 t   |       | 0 t-325t  |       |           |       |         |  |                                                                                     |  |
|  15°          |   | 20°      |   | 30°                                                                                       |       | 15°      |       | 20°                                                                                      |       | 15°      |       | 20°                                                                                        |       | 15°   |       | 20°       |       | 15°       |       | 20°     |  |  |  |
| m                                                                                              | t | t        | t | t                                                                                         | t     | t        | t     | t                                                                                        | t     | t        | t     | t                                                                                          | t     | t     | t     | t         | t     | t         | t     | m       |  |                                                                                     |  |
| 16                                                                                             | - | -        | - | -                                                                                         | -     | -        | -     | 131,0                                                                                    | -     | 146,0    | -     | 116,0                                                                                      | 166,0 | -     | 172,0 | -         | 178,0 | -         | -     | 16      |  |                                                                                     |  |
| 17                                                                                             | - | -        | - | -                                                                                         | 102,0 | 135,0    | 115,0 | 130,5                                                                                    | 119,0 | 146,0    | 116,0 | 109,5                                                                                      | 166,0 | 130,0 | 172,0 | 127,0     | 172,0 | 127,0     | 125,0 | 17      |  |                                                                                     |  |
| 18                                                                                             | - | -        | - | -                                                                                         | 96,5  | 135,0    | 115,0 | 130,0                                                                                    | 118,0 | 146,0    | 114,0 | 103,0                                                                                      | 166,0 | 127,0 | 172,0 | 127,0     | 172,0 | 125,0     | 18    |         |  |                                                                                     |  |
| 20                                                                                             | - | -        | - | -                                                                                         | 86,0  | 134,0    | 113,0 | 129,0                                                                                    | 118,0 | 141,0    | 110,0 | 92,0                                                                                       | 165,0 | 123,0 | 166,0 | 123,0     | 164,0 | 120,0     | 20    |         |  |                                                                                     |  |
| 22                                                                                             | - | -        | - | -                                                                                         | 77,7  | 133,0    | 112,0 | 127,5                                                                                    | 115,0 | 135,5    | 106,0 | 83,0                                                                                       | 159,0 | 119,0 | 159,5 | 119,0     | 157,0 | 116,0     | 22    |         |  |                                                                                     |  |
| 24                                                                                             | - | -        | - | -                                                                                         | 69,5  | 132,0    | 109,0 | 126,0                                                                                    | 112,0 | 130,0    | 102,0 | 74,0                                                                                       | 153,0 | 115,0 | 153,0 | 115,0     | 151,0 | 113,0     | 24    |         |  |                                                                                     |  |
| 26                                                                                             | - | -        | - | -                                                                                         | 63,2  | 129,5    | 106,0 | 123,5                                                                                    | 110,0 | 125,0    | 99,5  | 67,2                                                                                       | 147,5 | 112,0 | 147,5 | 112,0     | 145,5 | 109,5     | 26    |         |  |                                                                                     |  |
| 28                                                                                             | - | -        | - | -                                                                                         | 57,0  | 127,0    | 103,0 | 121,0                                                                                    | 107,0 | 120,0    | 96,5  | 60,5                                                                                       | 142,0 | 109,0 | 142,0 | 109,0     | 140,0 | 106,0     | 28    |         |  |                                                                                     |  |
| 30                                                                                             | - | -        | - | -                                                                                         | 52,1  | 124,0    | 100,0 | 118,0                                                                                    | 104,0 | 116,0    | 93,5  | 55,2                                                                                       | 137,5 | 106,0 | 137,5 | 106,0     | 135,0 | 103,0     | 30    |         |  |                                                                                     |  |
| 34                                                                                             | - | -        | - | -                                                                                         | 43,3  | 118,5    | 95,3  | 113,5                                                                                    | 98,3  | 108,5    | 88,5  | 45,8                                                                                       | 128,5 | 100,3 | 128,5 | 100,3     | 125,5 | 97,2      | 34    |         |  |                                                                                     |  |
| 38                                                                                             | - | -        | - | -                                                                                         | 36,1  | 113,3    | 90,6  | 108,3                                                                                    | 93,3  | 102,0    | 83,8  | 38,3                                                                                       | 120,6 | 95,3  | 120,6 | 95,3      | 117,5 | 92,2      | 38    |         |  |                                                                                     |  |
| 42                                                                                             | - | -        | - | -                                                                                         | 29,8  | 108,0    | 86,0  | 103,0                                                                                    | 89,0  | 96,0     | 79,5  | 31,5                                                                                       | 114,0 | 91,0  | 114,0 | 91,0      | 111,0 | 88,0      | 42    |         |  |                                                                                     |  |
| 46                                                                                             | - | -        | - | -                                                                                         | 24,8  | 102,6    | 82,3  | 97,6                                                                                     | 85,0  | 91,0     | 75,8  | 26,2                                                                                       | 108,0 | 87,0  | 108,0 | 87,0      | 105,0 | 84,0      | 46    |         |  |                                                                                     |  |
| 50                                                                                             | - | -        | - | -                                                                                         | 20,1  | 97,3     | 79,0  | 92,5                                                                                     | 81,3  | 86,3     | 72,5  | 21,2                                                                                       | 102,5 | 83,3  | 102,5 | 83,3      | 99,6  | 80,3      | 50    |         |  |                                                                                     |  |
| 54                                                                                             | - | -        | - | -                                                                                         | 15,7  | 92,0     | 76,0  | 87,5                                                                                     | 78,0  | 82,0     | 69,5  | 16,6                                                                                       | 97,5  | 80,0  | 97,5  | 80,0      | 94,6  | 77,0      | 54    |         |  |                                                                                     |  |
| 58                                                                                             | - | -        | - | -                                                                                         | 12,0  | 87,3     | 73,0  | 83,0                                                                                     | 74,6  | 78,3     | 66,8  | 12,6                                                                                       | 93,1  | 77,0  | 93,1  | 77,0      | 90,0  | 74,0      | 58    |         |  |                                                                                     |  |
| 62                                                                                             | - | -        | - | -                                                                                         | 8,7   | 83,3     | 70,3  | 79,3                                                                                     | 71,6  | 75,1     | 64,5  | 9,0                                                                                        | 89,1  | 74,1  | 89,1  | 74,1      | 86,3  | 71,3      | 62    |         |  |                                                                                     |  |
| 66                                                                                             | - | -        | - | -                                                                                         | 5,7   | 80,0     | 68,0  | 76,0                                                                                     | 69,0  | 72,0     | 62,0  | 5,9                                                                                        | 85,5  | 71,5  | 85,5  | 71,5      | 82,8  | 68,8      | 66    |         |  |                                                                                     |  |
| 69                                                                                             | - | -        | - | -                                                                                         | 3,8   | 78,0     | 66,3  | 74,1                                                                                     | 67,3  | 70,0     | 60,5  | 3,9                                                                                        | 83,2  | 70,0  | 83,4  | 70,0      | 80,3  | 67,0      | 69    |         |  |                                                                                     |  |
| 70                                                                                             | - | -        | - | -                                                                                         | -     | 77,1     | 65,7  | 73,4                                                                                     | 66,7  | 69,3     | 60,0  | -                                                                                          | 82,5  | 69,5  | 82,6  | 69,5      | 79,5  | 66,5      | 70    |         |  |                                                                                     |  |
| 74                                                                                             | - | -        | - | -                                                                                         | -     | 74,1     | 63,5  | 70,6                                                                                     | 64,6  | 66,8     | 58,1  | -                                                                                          | 79,5  | 67,5  | 79,5  | 67,5      | 76,4  | 64,5      | 74    |         |  |                                                                                     |  |
| 78                                                                                             | - | -        | - | -                                                                                         | -     | 71,5     | 61,5  | 68,0                                                                                     | 63,0  | 64,5     | 56,5  | -                                                                                          | 76,5  | 65,5  | 76,5  | 65,5      | 73,8  | 62,6      | 78    |         |  |                                                                                     |  |
| 82                                                                                             | - | -        | - | -                                                                                         | -     | 69,1     | 59,8  | 65,6                                                                                     | 61,3  | 62,5     | 54,8  | -                                                                                          | 74,1  | 63,8  | 74,1  | 63,8      | 71,5  | 61,0      | 82    |         |  |                                                                                     |  |
| 86                                                                                             | - | -        | - | -                                                                                         | -     | 66,0     | 58,3  | 63,5                                                                                     | 59,6  | 60,6     | 53,5  | -                                                                                          | 71,1  | 62,3  | 71,0  | 62,3      | 69,1  | 59,6      | 86    |         |  |                                                                                     |  |
| 90                                                                                             | - | -        | - | -                                                                                         | -     | 62,0     | 57,0  | 61,5                                                                                     | 58,0  | 59,0     | 52,5  | -                                                                                          | 67,5  | 61,0  | 67,0  | 61,0      | 65,8  | 58,3      | 90    |         |  |                                                                                     |  |
| 94                                                                                             | - | -        | - | -                                                                                         | -     | 58,0     | 55,6  | 57,5                                                                                     | 56,3  | 55,0     | 51,0  | -                                                                                          | 63,1  | 59,6  | 62,6  | 59,6      | 61,5  | 57,0      | 94    |         |  |                                                                                     |  |
| 98                                                                                             | - | -        | - | -                                                                                         | -     | 54,2     | 53,8  | 53,5                                                                                     | 53,5  | 51,2     | 49,6  | -                                                                                          | 59,0  | 58,0  | 58,5  | 57,7      | 56,5  | 56,2      | 98    |         |  |                                                                                     |  |
| 102                                                                                            | - | -        | - | -                                                                                         | -     | 51,0     | 51,0  | 50,0                                                                                     | 50,5  | 47,8     | 47,9  | -                                                                                          | 55,5  | 55,5  | 55,0  | 55,0      | 52,6  | 53,6      | 102   |         |  |                                                                                     |  |
| 106                                                                                            | - | -        | - | -                                                                                         | -     | 48,0     | 48,2  | 47,0                                                                                     | 47,3  | 44,5     | 44,5  | -                                                                                          | 52,1  | 52,0  | 51,6  | 51,5      | 48,9  | 49,8      | 106   |         |  |                                                                                     |  |
| 109                                                                                            | - | -        | - | -                                                                                         | -     | 45,8     | -     | 44,9                                                                                     | -     | 42,2     | -     | -                                                                                          | 49,8  | -     | 49,1  | -         | 46,3  | -         | 109   |         |  |                                                                                     |  |

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |       |  11-21 m |       |  8,40 m |       |  9.8 m/s |       | 360°     |       | EN13000     |       |           |       |           |       |           |       |       |       |       |     |
|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------------------------------------|-------|----------|-------|-------------|-------|-----------|-------|-----------|-------|-----------|-------|-------|-------|-------|-----|
| 114 m                                                                                          |       |                                                                                           |       |                                                                                          |       |                                                                                            |       |          |       |             |       |           |       |           |       |           |       |       |       |       |     |
| LSL+LF_2                                                                                       |       |                                                                                           |       | LSL+LF_3                                                                                 |       | LSL+LF_4                                                                                   |       | LSL+LF_6 |       | LSL+LF_8    |       | LSL+LF_10 |       | LSL+LF_12 |       | LSL+LF_14 |       |       |       |       |     |
| 12 m                                                                                           |       |                                                                                           |       |                                                                                          |       |                                                                                            |       |          |       |             |       |           |       |           |       |           |       |       |       |       |     |
| 0 t                                                                                            |       | 0 t - 325 t                                                                               |       | 0 t                                                                                      |       | 0 t - 325 t                                                                                |       | 0 t      |       | 0 t - 325 t |       |           |       |           |       |           |       |       |       |       |     |
| 15°                                                                                            |       | 20°                                                                                       |       | 30°                                                                                      |       | 15°                                                                                        |       | 20°      |       | 15°         |       | 20°       |       | 15°       |       | 20°       |       | 15°   |       | 20°   |     |
| m                                                                                              | t     | t                                                                                         | t     | t                                                                                        | t     | t                                                                                          | t     | t        | t     | t           | t     | t         | t     | t         | t     | t         | t     | t     | t     | m     |     |
| 16                                                                                             | 108,0 | 128,0                                                                                     | -     | -                                                                                        | -     | -                                                                                          | -     | 133,0    | -     | 145,0       | -     | 114,0     | 160,0 | -         | 165,0 | -         | 170,0 | -     | 178,0 | -     | 16  |
| 17                                                                                             | 102,2 | 128,0                                                                                     | 120,0 | -                                                                                        | 100,0 | 131,0                                                                                      | 113,0 | 132,5    | 115,0 | 145,0       | 116,0 | 107,5     | 160,0 | 130,0     | 165,0 | 130,0     | 170,0 | 130,0 | 175,5 | 128,0 | 17  |
| 18                                                                                             | 96,5  | 128,0                                                                                     | 120,0 | -                                                                                        | 95,0  | 131,0                                                                                      | 113,0 | 132,0    | 115,0 | 145,0       | 114,0 | 101,0     | 160,0 | 128,0     | 165,0 | 128,0     | 170,0 | 128,0 | 173,0 | 125,0 | 18  |
| 19                                                                                             | 91,2  | 128,0                                                                                     | 120,0 | 80,0                                                                                     | 89,7  | 131,0                                                                                      | 112,5 | 132,0    | 114,5 | 143,5       | 112,0 | 95,7      | 160,0 | 126,0     | 164,5 | 126,0     | 169,0 | 126,0 | 169,5 | 123,0 | 19  |
| 20                                                                                             | 86,0  | 128,0                                                                                     | 120,0 | 79,0                                                                                     | 84,5  | 131,0                                                                                      | 112,0 | 132,0    | 114,0 | 142,0       | 110,0 | 90,5      | 160,0 | 124,0     | 164,0 | 124,0     | 168,0 | 124,0 | 166,0 | 121,0 | 20  |
| 22                                                                                             | 77,0  | 128,0                                                                                     | 119,0 | 77,0                                                                                     | 76,5  | 130,5                                                                                      | 111,0 | 131,5    | 113,0 | 136,5       | 107,0 | 81,7      | 157,5 | 120,0     | 159,5 | 120,0     | 161,5 | 120,0 | 159,0 | 117,0 | 22  |
| 24                                                                                             | 69,5  | 127,0                                                                                     | 115,0 | 75,5                                                                                     | 68,5  | 130,0                                                                                      | 110,0 | 131,0    | 112,0 | 131,0       | 103,0 | 73,0      | 155,0 | 116,0     | 155,0 | 116,0     | 155,0 | 116,0 | 152,0 | 113,0 | 24  |
| 26                                                                                             | 63,0  | 126,0                                                                                     | 111,0 | 73,5                                                                                     | 62,2  | 127,5                                                                                      | 107,0 | 129,0    | 110,0 | 126,5       | 100,0 | 66,2      | 149,5 | 113,0     | 149,5 | 113,0     | 149,5 | 113,0 | 146,5 | 109,5 | 26  |
| 28                                                                                             | 57,0  | 125,0                                                                                     | 108,0 | 72,0                                                                                     | 56,0  | 125,0                                                                                      | 104,0 | 127,0    | 108,0 | 122,0       | 97,0  | 59,5      | 144,0 | 109,0     | 144,0 | 109,0     | 144,0 | 109,0 | 141,0 | 106,0 | 28  |
| 30                                                                                             | 51,5  | 124,0                                                                                     | 105,0 | 70,5                                                                                     | 51,1  | 122,5                                                                                      | 101,0 | 124,5    | 105,0 | 117,5       | 94,0  | 54,4      | 139,0 | 106,0     | 139,0 | 106,0     | 139,0 | 106,0 | 136,0 | 103,5 | 30  |
| 34                                                                                             | 43,3  | 121,3                                                                                     | 99,3  | 67,5                                                                                     | 42,3  | 117,5                                                                                      | 95,6  | 120,0    | 99,3  | 109,5       | 89,0  | 45,1      | 130,0 | 101,0     | 130,0 | 101,0     | 130,0 | 101,0 | 127,0 | 98,2  | 34  |
| 38                                                                                             | 36,0  | 116,6                                                                                     | 94,1  | 64,8                                                                                     | 35,2  | 112,3                                                                                      | 90,6  | 115,3    | 94,3  | 103,1       | 84,5  | 37,5      | 122,3 | 96,1      | 122,3 | 96,1      | 122,3 | 96,1  | 119,0 | 93,2  | 38  |
| 42                                                                                             | 29,7  | 110,0                                                                                     | 89,5  | 62,5                                                                                     | 29,0  | 107,0                                                                                      | 86,0  | 110,0    | 90,0  | 97,5        | 80,5  | 30,9      | 115,0 | 91,5      | 115,0 | 91,5      | 115,0 | 91,5  | 112,0 | 88,8  | 42  |
| 46                                                                                             | 24,7  | 104,0                                                                                     | 85,5  | 60,5                                                                                     | 24,0  | 101,3                                                                                      | 82,0  | 104,3    | 86,0  | 92,1        | 76,8  | 25,7      | 109,0 | 87,5      | 109,0 | 87,5      | 109,0 | 87,5  | 106,0 | 84,5  | 46  |
| 50                                                                                             | 20,1  | 98,6                                                                                      | 81,8  | 58,5                                                                                     | 19,4  | 95,1                                                                                       | 78,3  | 98,6     | 82,3  | 87,5        | 73,3  | 20,8      | 103,6 | 83,8      | 103,6 | 83,8      | 103,6 | 83,8  | 100,6 | 81,1  | 50  |
| 54                                                                                             | 15,8  | 94,0                                                                                      | 78,5  | 56,5                                                                                     | 15,2  | 88,5                                                                                       | 75,0  | 94,0     | 79,0  | 83,5        | 70,0  | 16,2      | 99,0  | 80,5      | 99,0  | 80,5      | 99,0  | 80,5  | 95,8  | 78,0  | 54  |
| 58                                                                                             | 12,0  | 89,6                                                                                      | 75,5  | 54,8                                                                                     | 11,4  | 81,0                                                                                       | 72,3  | 89,1     | 75,6  | 79,8        | 67,3  | 12,2      | 94,6  | 77,8      | 94,6  | 77,8      | 94,6  | 77,8  | 91,5  | 75,0  | 58  |
| 62                                                                                             | 8,7   | 85,6                                                                                      | 72,6  | 53,3                                                                                     | 8,1   | 76,6                                                                                       | 69,3  | 85,5     | 72,6  | 76,2        | 65,0  | 8,7       | 89,8  | 75,1      | 90,6  | 75,1      | 90,6  | 75,1  | 87,5  | 72,3  | 62  |
| 66                                                                                             | 5,7   | 82,0                                                                                      | 70,0  | 52,0                                                                                     | 5,2   | 73,0                                                                                       | 67,0  | 82,5     | 70,0  | 73,0        | 62,5  | 5,5       | 86,5  | 72,5      | 87,0  | 72,5      | 87,0  | 72,5  | 83,9  | 69,8  | 66  |
| 68                                                                                             | 4,3   | 80,6                                                                                      | 69,0  | 51,5                                                                                     | 3,9   | 70,8                                                                                       | 66,0  | 80,8     | 69,0  | 71,6        | 61,5  | 4,1       | 84,5  | 71,5      | 85,2  | 71,5      | 85,3  | 71,4  | 82,3  | 68,6  | 68  |
| 69                                                                                             | 3,7   | 80,0                                                                                      | 68,5  | 51,2                                                                                     | -     | 70,1                                                                                       | 65,5  | 80,1     | 68,5  | 71,0        | 61,0  | 3,5       | 83,6  | 70,8      | 84,4  | 70,8      | 84,5  | 70,8  | 81,5  | 68,0  | 69  |
| 70                                                                                             | -     | 79,1                                                                                      | 67,8  | 51,0                                                                                     | -     | 69,4                                                                                       | 65,0  | 79,4     | 68,0  | 70,3        | 60,5  | -         | 82,7  | 70,2      | 83,6  | 70,2      | 83,6  | 70,2  | 80,5  | 67,5  | 70  |
| 74                                                                                             | -     | 76,1                                                                                      | 65,5  | 50,0                                                                                     | -     | 66,3                                                                                       | 63,0  | 76,3     | 66,0  | 67,8        | 58,6  | -         | 79,6  | 68,0      | 80,6  | 68,0      | 80,6  | 68,0  | 77,5  | 65,5  | 74  |
| 78                                                                                             | -     | 73,5                                                                                      | 63,5  | 49,0                                                                                     | -     | 64,0                                                                                       | 61,0  | 73,0     | 64,0  | 65,5        | 57,0  | -         | 77,0  | 66,0      | 78,0  | 66,0      | 78,0  | 66,0  | 74,8  | 63,6  | 78  |
| 82                                                                                             | -     | 70,5                                                                                      | 61,8  | 48,1                                                                                     | -     | 62,3                                                                                       | 59,1  | 69,6     | 62,3  | 63,5        | 55,6  | -         | 73,6  | 64,3      | 75,3  | 64,3      | 74,6  | 64,3  | 72,5  | 62,0  | 82  |
| 86                                                                                             | -     | 66,6                                                                                      | 60,3  | 47,3                                                                                     | -     | 61,0                                                                                       | 57,8  | 65,6     | 60,8  | 61,1        | 54,3  | -         | 70,3  | 62,8      | 71,5  | 62,8      | 70,5  | 62,8  | 69,5  | 60,3  | 86  |
| 90                                                                                             | -     | 62,0                                                                                      | 59,0  | 46,6                                                                                     | -     | 60,0                                                                                       | 56,5  | 61,0     | 59,5  | 58,5        | 53,0  | -         | 67,0  | 61,5      | 66,5  | 61,5      | 65,5  | 61,5  | 65,6  | 58,8  | 90  |
| 94                                                                                             | -     | 58,0                                                                                      | 57,0  | 46,0                                                                                     | -     | 57,0                                                                                       | 55,5  | 57,0     | 56,8  | 54,1        | 51,6  | -         | 62,6  | 60,1      | 62,1  | 60,1      | 61,5  | 60,1  | 61,0  | 57,5  | 94  |
| 96                                                                                             | -     | 56,0                                                                                      | 56,0  | 39,7                                                                                     | -     | 55,5                                                                                       | 55,0  | 55,0     | 55,5  | 52,0        | 51,0  | -         | 60,5  | 59,5      | 60,0  | 59,5      | 59,5  | 59,5  | 58,6  | 57,1  | 96  |
| 98                                                                                             | -     | 54,2                                                                                      | 54,2  | -                                                                                        | -     | 53,8                                                                                       | 53,6  | 53,2     | 53,5  | 50,3        | 49,6  | -         | 58,7  | 58,2      | 58,0  | 58,1      | 57,5  | 57,5  | 56,3  | 56,3  | 98  |
| 102                                                                                            | -     | 51,0                                                                                      | 51,0  | -                                                                                        | -     | 50,5                                                                                       | 50,5  | 50,0     | 50,0  | 46,9        | 46,8  | -         | 55,0  | 55,0      | 54,5  | 54,5      | 53,5  | 53,5  | 52,1  | 53,0  | 102 |
| 106                                                                                            | -     | 47,8                                                                                      | 47,9  | -                                                                                        | -     | 47,5                                                                                       | 47,5  | 46,8     | 46,9  | 43,6        | 43,3  | -         | 51,6  | 51,6      | 51,2  | 51,3      | 50,2  | 50,3  | 48,3  | 49,2  | 106 |
| 108                                                                                            | -     | 46,3                                                                                      | 46,4  | -                                                                                        | -     | 46,0                                                                                       | 46,1  | 45,3     | 45,4  | 42,1        | 41,7  | -         | 50,0  | 50,0      | 49,6  | 49,7      | 48,6  | 48,7  | 46,5  | 47,5  | 108 |
| 109                                                                                            | -     | 45,5                                                                                      | 40,6  | -                                                                                        | -     | 45,2                                                                                       | 30,1  | 44,6     | 30,1  | 41,3        | -     | -         | 49,2  | -         | 48,8  | -         | 47,8  | -     | 45,7  | -     | 109 |
| 110                                                                                            | -     | 44,8                                                                                      | -     | -                                                                                        | -     | 44,5                                                                                       | -     | 43,9     | -     | 40,6        | -     | -         | 48,5  | -         | 48,0  | -         | 47,0  | -     | 44,9  | -     | 110 |
| 112                                                                                            | -     | 43,4                                                                                      | -     | -                                                                                        | -     | 43,1                                                                                       | -     | 42,5     | -     | 39,2        | -     | -         | 47,0  | -         | 46,5  | -         | 45,5  | -     | 43,3  | -     | 112 |

 0 t   65 t   95 t   125 t   165 t   205 t   265 t   325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |   |          |   |  11-21 m |      |       |       |  8,40 m |       |       |       |  9.8 m/s |       |       |       | 360°     |       |          |       | EN13000   |     |     |   |           |   |     |   |           |    |                                                                                     |  |
|------------------------------------------------------------------------------------------------|---|----------|---|-------------------------------------------------------------------------------------------|------|-------|-------|------------------------------------------------------------------------------------------|-------|-------|-------|---------------------------------------------------------------------------------------------|-------|-------|-------|----------|-------|----------|-------|-----------|-----|-----|---|-----------|---|-----|---|-----------|----|-------------------------------------------------------------------------------------|--|
|  117 m        |   |          |   |                                                                                           |      |       |       |                                                                                          |       |       |       |                                                                                             |       |       |       |          |       |          |       |           |     |     |   |           |   |     |   |           |    |                                                                                     |  |
| LSL+LF_2                                                                                       |   |          |   | LSL+LF_3                                                                                  |      |       |       | LSL+LF_4                                                                                 |       |       |       | LSL+LF_6                                                                                    |       |       |       | LSL+LF_8 |       |          |       | LSL+LF_10 |     |     |   | LSL+LF_12 |   |     |   | LSL+LF_14 |    |                                                                                     |  |
|  12 m         |   |          |   |                                                                                           |      |       |       |                                                                                          |       |       |       |                                                                                             |       |       |       |          |       |          |       |           |     |     |   |           |   |     |   |           |    |                                                                                     |  |
| 0 t                                                                                            |   | 0 t-325t |   |                                                                                           |      | 0 t   |       | 0 t-325t                                                                                 |       |       |       |                                                                                             |       |       |       | 0 t      |       | 0 t-325t |       |           |     |     |   |           |   |     |   |           |    |                                                                                     |  |
| 15°                                                                                            |   | 20°      |   | 30°                                                                                       |      | 15°   |       | 20°                                                                                      |       | 15°   |       | 20°                                                                                         |       | 15°   |       | 20°      |       | 15°      |       | 20°       |     | 15° |   | 20°       |   | 15° |   | 20°       |    |  |  |
| m                                                                                              | t | t        | t | t                                                                                         | t    | t     | t     | t                                                                                        | t     | t     | t     | t                                                                                           | t     | t     | t     | t        | t     | t        | t     | t         | t   | t   | t | t         | t | t   | t | t         | m  |                                                                                     |  |
| 16                                                                                             | - | -        | - | -                                                                                         | -    | -     | -     | 129,0                                                                                    | -     | 140,0 | -     | 111,0                                                                                       | 155,0 | -     | 160,0 | -        | 165,0 | -        | 178,0 | -         |     |     |   |           |   |     |   |           | 16 |                                                                                     |  |
| 17                                                                                             | - | -        | - | -                                                                                         | 98,0 | 127,0 | 111,0 | 129,0                                                                                    | 114,0 | 140,0 | 117,0 | 105,0                                                                                       | 155,0 | 131,0 | 160,0 | 131,0    | 165,0 | 131,0    | 176,0 | 128,0     |     |     |   |           |   |     |   |           | 17 |                                                                                     |  |
| 18                                                                                             | - | -        | - | -                                                                                         | 92,5 | 127,0 | 111,0 | 129,0                                                                                    | 114,0 | 140,0 | 115,0 | 99,0                                                                                        | 155,0 | 129,0 | 160,0 | 129,0    | 165,0 | 129,0    | 174,0 | 126,0     |     |     |   |           |   |     |   |           | 18 |                                                                                     |  |
| 20                                                                                             | - | -        | - | -                                                                                         | 82,5 | 127,0 | 111,0 | 129,0                                                                                    | 113,0 | 140,0 | 111,0 | 88,0                                                                                        | 155,0 | 124,0 | 159,0 | 124,0    | 165,0 | 124,0    | 167,0 | 122,0     |     |     |   |           |   |     |   |           | 20 |                                                                                     |  |
| 22                                                                                             | - | -        | - | -                                                                                         | 74,5 | 127,0 | 110,0 | 129,0                                                                                    | 113,0 | 136,0 | 107,0 | 79,5                                                                                        | 154,5 | 120,0 | 157,5 | 120,0    | 160,5 | 120,0    | 160,0 | 118,0     |     |     |   |           |   |     |   |           | 22 |                                                                                     |  |
| 24                                                                                             | - | -        | - | -                                                                                         | 66,5 | 127,0 | 110,0 | 129,0                                                                                    | 112,0 | 132,0 | 104,0 | 71,0                                                                                        | 154,0 | 117,0 | 156,0 | 117,0    | 156,0 | 117,0    | 154,0 | 114,0     |     |     |   |           |   |     |   |           | 24 |                                                                                     |  |
| 26                                                                                             | - | -        | - | -                                                                                         | 60,2 | 125,5 | 108,0 | 127,5                                                                                    | 111,0 | 127,5 | 100,0 | 64,5                                                                                        | 149,5 | 113,0 | 150,5 | 113,0    | 150,5 | 113,0    | 148,0 | 110,5     |     |     |   |           |   |     |   |           | 26 |                                                                                     |  |
| 28                                                                                             | - | -        | - | -                                                                                         | 54,0 | 124,0 | 105,0 | 126,0                                                                                    | 108,0 | 123,0 | 97,5  | 58,0                                                                                        | 145,0 | 110,0 | 145,0 | 110,0    | 145,0 | 110,0    | 142,0 | 107,0     |     |     |   |           |   |     |   |           | 28 |                                                                                     |  |
| 30                                                                                             | - | -        | - | -                                                                                         | 49,3 | 122,5 | 102,0 | 124,0                                                                                    | 106,0 | 118,5 | 95,0  | 52,8                                                                                        | 140,0 | 107,0 | 140,0 | 107,0    | 140,0 | 107,0    | 137,5 | 104,0     |     |     |   |           |   |     |   |           | 30 |                                                                                     |  |
| 34                                                                                             | - | -        | - | -                                                                                         | 40,7 | 119,0 | 97,0  | 120,5                                                                                    | 100,6 | 110,5 | 90,0  | 43,5                                                                                        | 131,0 | 102,0 | 131,0 | 102,0    | 131,0 | 102,0    | 128,5 | 98,7      |     |     |   |           |   |     |   |           | 34 |                                                                                     |  |
| 38                                                                                             | - | -        | - | -                                                                                         | 33,7 | 114,3 | 92,1  | 116,3                                                                                    | 95,6  | 104,1 | 85,3  | 35,9                                                                                        | 123,3 | 97,1  | 123,3 | 97,1     | 123,3 | 97,1     | 120,5 | 94,0      |     |     |   |           |   |     |   |           | 38 |                                                                                     |  |
| 42                                                                                             | - | -        | - | -                                                                                         | 27,5 | 109,0 | 87,5  | 111,0                                                                                    | 91,0  | 98,5  | 81,0  | 29,3                                                                                        | 116,0 | 92,5  | 116,0 | 92,5     | 116,0 | 92,5     | 113,6 | 89,5      |     |     |   |           |   |     |   |           | 42 |                                                                                     |  |
| 46                                                                                             | - | -        | - | -                                                                                         | 22,6 | 103,6 | 83,5  | 105,6                                                                                    | 87,3  | 93,5  | 77,3  | 24,1                                                                                        | 110,0 | 88,5  | 110,0 | 88,5     | 110,0 | 88,5     | 107,0 | 85,5      |     |     |   |           |   |     |   |           | 46 |                                                                                     |  |
| 50                                                                                             | - | -        | - | -                                                                                         | 18,1 | 96,5  | 79,6  | 100,6                                                                                    | 83,6  | 88,8  | 74,0  | 19,4                                                                                        | 104,6 | 84,8  | 104,6 | 84,8     | 104,6 | 84,8     | 102,0 | 81,8      |     |     |   |           |   |     |   |           | 50 |                                                                                     |  |
| 54                                                                                             | - | -        | - | -                                                                                         | 14,1 | 91,5  | 76,0  | 96,0                                                                                     | 80,0  | 84,5  | 71,0  | 15,1                                                                                        | 100,0 | 81,5  | 100,0 | 81,5     | 100,0 | 81,5     | 97,1  | 78,5      |     |     |   |           |   |     |   |           | 54 |                                                                                     |  |
| 58                                                                                             | - | -        | - | -                                                                                         | 10,3 | 86,1  | 73,3  | 90,8                                                                                     | 77,0  | 80,8  | 68,3  | 11,1                                                                                        | 95,6  | 78,5  | 95,6  | 78,5     | 95,6  | 78,5     | 75,5  | 75,5      |     |     |   |           |   |     |   |           | 58 |                                                                                     |  |
| 62                                                                                             | - | -        | - | -                                                                                         | 7,0  | 79,6  | 70,3  | 87,0                                                                                     | 74,1  | 77,3  | 65,9  | 7,6                                                                                         | 91,6  | 75,8  | 91,7  | 75,8     | 91,7  | 75,8     | 88,5  | 72,8      |     |     |   |           |   |     |   |           | 62 |                                                                                     |  |
| 66                                                                                             | - | -        | - | -                                                                                         | 4,1  | 76,5  | 68,0  | 84,0                                                                                     | 71,5  | 74,0  | 63,5  | 4,4                                                                                         | 88,0  | 73,0  | 88,0  | 73,0     | 88,0  | 73,0     | 84,8  | 70,2      |     |     |   |           |   |     |   |           | 66 |                                                                                     |  |
| 67                                                                                             | - | -        | - | -                                                                                         | -    | 75,5  | 67,5  | 83,2                                                                                     | 70,9  | 73,3  | 63,0  | 3,7                                                                                         | 87,1  | 72,5  | 87,1  | 72,5     | 87,1  | 72,5     | 84,0  | 69,6      |     |     |   |           |   |     |   |           | 67 |                                                                                     |  |
| 70                                                                                             | - | -        | - | -                                                                                         | -    | 72,6  | 65,7  | 81,0                                                                                     | 69,1  | 71,3  | 61,5  | -                                                                                           | 84,6  | 71,0  | 84,6  | 71,0     | 84,6  | 71,0     | 81,5  | 68,0      |     |     |   |           |   |     |   |           | 70 |                                                                                     |  |
| 74                                                                                             | - | -        | - | -                                                                                         | -    | 70,3  | 63,6  | 78,0                                                                                     | 67,0  | 68,6  | 59,5  | -                                                                                           | 81,6  | 69,0  | 81,6  | 69,0     | 81,6  | 69,0     | 78,8  | 66,0      |     |     |   |           |   |     |   |           | 74 |                                                                                     |  |
| 78                                                                                             | - | -        | - | -                                                                                         | -    | 68,0  | 62,0  | 75,0                                                                                     | 65,0  | 66,0  | 57,5  | -                                                                                           | 79,0  | 67,0  | 79,0  | 67,0     | 79,0  | 67,0     | 76,1  | 64,1      |     |     |   |           |   |     |   |           | 78 |                                                                                     |  |
| 82                                                                                             | - | -        | - | -                                                                                         | -    | 66,0  | 60,3  | 69,6                                                                                     | 63,3  | 64,0  | 56,1  | -                                                                                           | 75,3  | 65,3  | 75,0  | 65,3     | 74,3  | 65,3     | 73,5  | 62,5      |     |     |   |           |   |     |   |           | 82 |                                                                                     |  |
| 86                                                                                             | - | -        | - | -                                                                                         | -    | 63,5  | 58,6  | 64,6                                                                                     | 61,8  | 61,2  | 54,7  | -                                                                                           | 71,0  | 63,6  | 70,5  | 63,6     | 69,5  | 63,6     | 69,1  | 60,8      |     |     |   |           |   |     |   |           | 86 |                                                                                     |  |
| 90                                                                                             | - | -        | - | -                                                                                         | -    | 60,5  | 57,0  | 60,0                                                                                     | 60,5  | 57,5  | 53,5  | -                                                                                           | 66,0  | 62,0  | 65,5  | 62,0     | 64,5  | 62,0     | 64,5  | 59,3      |     |     |   |           |   |     |   |           | 90 |                                                                                     |  |
| 94                                                                                             | - | -        | - | -                                                                                         | -    | 56,5  | 55,6  | 56,0                                                                                     | 56,5  | 53,1  | 51,8  | -                                                                                           | 61,6  | 60,3  | 61,1  | 60,0     | 60,0  | 60,5     | 59,5  | 58,0      |     |     |   |           |   |     |   |           | 94 |                                                                                     |  |
| 98                                                                                             | - | -        | - | -                                                                                         | -    | 52,8  | 53,2  | 52,7                                                                                     | 52,7  | 49,2  | 49,1  | -                                                                                           | 57,5  | 57,5  | 57,0  | 57,1     | 56,1  | 56,5     | 54,8  | 55,0      |     |     |   |           |   |     |   |           | 98 |                                                                                     |  |
| 102                                                                                            | - | -        | - | -                                                                                         | -    | 49,6  | 49,7  | 49,1                                                                                     | 49,3  | 45,7  | 45,3  | -                                                                                           | 53,5  | 54,0  | 53,0  | 53,5     | 52,5  | 52,5     | 50,6  | 51,1      | 102 |     |   |           |   |     |   |           |    |                                                                                     |  |
| 106                                                                                            | - | -        | - | -                                                                                         | -    | 46,4  | 46,5  | 45,1                                                                                     | 46,0  | 42,5  | 41,8  | -                                                                                           | 49,9  | 50,6  | 49,5  | 50,1     | 48,9  | 49,1     | 46,9  | 47,4      | 106 |     |   |           |   |     |   |           |    |                                                                                     |  |
| 110                                                                                            | - | -        | - | -                                                                                         | -    | 43,3  | 43,4  | 40,9                                                                                     | 42,9  | 39,4  | 38,6  | -                                                                                           | 46,7  | 47,4  | 46,3  | 46,8     | 45,6  | 45,8     | 43,4  | 43,9      | 110 |     |   |           |   |     |   |           |    |                                                                                     |  |
| 111                                                                                            | - | -        | - | -                                                                                         | -    | 42,6  | 42,7  | 39,8                                                                                     | 42,2  | 38,6  | 37,9  | -                                                                                           | 45,9  | 46,6  | 45,6  | 46,1     | 44,9  | 45,0     | 42,5  | 43,1      | 111 |     |   |           |   |     |   |           |    |                                                                                     |  |
| 114                                                                                            | - | -        | - | -                                                                                         | -    | 40,5  | -     | 36,5                                                                                     | -     | 36,4  | -     | -                                                                                           | 43,9  | -     | 43,6  | -        | 42,7  | -        | 40,1  | -         | 114 |     |   |           |   |     |   |           |    |                                                                                     |  |
| 115                                                                                            | - | -        | - | -                                                                                         | -    | 39,9  | -     | 35,4                                                                                     | -     | 35,7  | -     | -                                                                                           | 43,3  | -     | 42,9  | -        | 42,0  | -        | 39,4  | -         | 115 |     |   |           |   |     |   |           |    |                                                                                     |  |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6: 11-19 m

LSL+LF\_8 – LSL+LF\_12: 11-21 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t

# Operation

LSL+LF

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| 165 t + 50 t |       | 11-21 m |       | 8,40 m |      | 9.8 m/s     |       | 360°  |       | EN13000     |       |
|--------------|-------|---------|-------|--------|------|-------------|-------|-------|-------|-------------|-------|
| 120 m        |       | 12 m    |       | 0 t    |      | 0 t - 325 t |       | 0 t   |       | 0 t - 325 t |       |
| 15°          |       | 20°     |       | 30°    |      | 15°         |       | 20°   |       | 15°         |       |
| m            |       | t       |       | t      |      | t           |       | t     |       | t           |       |
| 16           | 104,0 | 114,0   | -     | -      | -    | -           | -     | 124,0 | -     | 135,0       | -     |
| 17           | 98,5  | 113,5   | 108,0 | -      | 96,5 | 123,0       | 109,0 | 124,0 | 111,0 | 135,0       | 117,0 |
| 18           | 93,0  | 113,0   | 108,0 | -      | 90,5 | 123,0       | 109,0 | 124,0 | 111,0 | 135,0       | 115,0 |
| 19           | 88,0  | 113,0   | 108,0 | 80,5   | 85,7 | 123,0       | 109,0 | 124,0 | 111,0 | 135,0       | 113,0 |
| 20           | 83,0  | 113,0   | 108,0 | 79,5   | 81,0 | 123,0       | 109,0 | 124,0 | 111,0 | 135,0       | 111,0 |
| 22           | 74,5  | 112,0   | 108,0 | 77,5   | 73,0 | 122,5       | 108,0 | 124,0 | 111,0 | 134,0       | 108,0 |
| 24           | 67,0  | 112,0   | 108,0 | 76,0   | 65,0 | 122,0       | 108,0 | 124,0 | 111,0 | 133,0       | 104,0 |
| 26           | 60,5  | 111,0   | 108,0 | 74,0   | 59,0 | 120,0       | 107,0 | 123,5 | 111,0 | 128,5       | 101,0 |
| 28           | 54,5  | 110,0   | 107,0 | 72,5   | 53,0 | 118,0       | 104,0 | 123,0 | 109,0 | 124,0       | 98,5  |
| 30           | 49,8  | 110,0   | 106,0 | 71,0   | 48,2 | 116,0       | 101,0 | 122,0 | 107,0 | 120,0       | 95,5  |
| 34           | 41,5  | 108,6   | 101,0 | 68,3   | 39,6 | 111,5       | 96,3  | 120,5 | 101,6 | 112,0       | 90,5  |
| 38           | 34,3  | 107,0   | 96,1  | 65,6   | 32,6 | 106,6       | 91,8  | 117,6 | 96,8  | 105,1       | 85,8  |
| 42           | 28,1  | 105,0   | 91,5  | 63,0   | 26,4 | 102,0       | 87,5  | 113,0 | 92,5  | 99,5        | 81,5  |
| 46           | 23,2  | 102,3   | 87,1  | 61,0   | 21,6 | 96,6        | 83,5  | 107,6 | 88,5  | 94,5        | 78,1  |
| 50           | 18,8  | 97,1    | 83,3  | 59,1   | 17,2 | 91,3        | 79,8  | 102,5 | 84,6  | 89,8        | 74,8  |
| 54           | 14,8  | 94,5    | 80,0  | 57,5   | 13,4 | 86,0        | 76,5  | 97,5  | 81,0  | 85,5        | 71,5  |
| 58           | 11,0  | 89,3    | 77,0  | 55,8   | 9,6  | 78,0        | 73,5  | 92,5  | 78,0  | 81,8        | 69,0  |
| 62           | 7,6   | 85,6    | 74,1  | 54,3   | 6,2  | 73,5        | 69,6  | 88,5  | 75,2  | 78,3        | 66,4  |
| 65           | 5,3   | 82,2    | 72,1  | 53,3   | 4,0  | 71,1        | 66,2  | 86,2  | 73,2  | 75,8        | 64,6  |
| 66           | 4,6   | 81,5    | 71,5  | 53,0   | -    | 70,5        | 65,5  | 85,5  | 72,5  | 75,0        | 64,0  |
| 67           | 3,9   | 80,8    | 71,0  | 52,6   | -    | 69,1        | 64,9  | 84,7  | 71,9  | 74,3        | 63,5  |
| 70           | -     | 78,8    | 69,2  | 51,6   | -    | 66,3        | 63,1  | 82,5  | 70,1  | 72,3        | 62,0  |
| 74           | -     | 75,8    | 67,0  | 50,5   | -    | 63,8        | 60,0  | 78,8  | 68,0  | 69,6        | 60,1  |
| 78           | -     | 73,5    | 65,0  | 49,6   | -    | 61,5        | 58,0  | 74,5  | 66,0  | 67,0        | 58,5  |
| 82           | -     | 69,8    | 63,3  | 48,6   | -    | 59,0        | 56,1  | 69,1  | 64,3  | 64,6        | 56,8  |
| 86           | -     | 65,6    | 61,6  | 47,8   | -    | 57,5        | 55,0  | 64,1  | 62,1  | 61,0        | 55,3  |
| 90           | -     | 61,0    | 60,0  | 47,1   | -    | 56,5        | 54,0  | 59,5  | 59,5  | 56,5        | 54,0  |
| 94           | -     | 57,0    | 56,6  | 46,4   | -    | 55,5        | 53,2  | 55,5  | 55,5  | 52,1        | 51,1  |
| 98           | -     | 53,2    | 53,6  | 45,9   | -    | 52,2        | 51,6  | 51,4  | 51,7  | 48,4        | 47,7  |
| 100          | -     | 51,6    | 51,8  | 45,7   | -    | 50,5        | 50,2  | 49,4  | 50,0  | 46,6        | 45,7  |
| 102          | -     | 50,0    | 50,0  | -      | -    | 48,8        | 48,9  | 47,4  | 48,3  | 44,8        | 43,8  |
| 106          | -     | 46,7    | 46,8  | -      | -    | 45,5        | 45,7  | 41,8  | 44,9  | 41,4        | 40,2  |
| 110          | -     | 43,6    | 43,7  | -      | -    | 42,5        | 42,6  | 36,3  | 39,3  | 38,1        | 36,9  |
| 113          | -     | 41,5    | 41,6  | -      | -    | 40,4        | 40,5  | 33,6  | 34,5  | 35,7        | 34,7  |
| 114          | -     | 40,9    | 41,0  | -      | -    | 39,7        | 34,9  | 32,7  | 16,8  | 35,0        | -     |
| 117          | -     | 38,9    | -     | -      | -    | 37,8        | -     | 28,7  | -     | 33,0        | -     |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6: 11-19 m

LSL+LF\_8 – LSL+LF\_12: 11-21 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t



# Operation

LSL+LF

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|  165 t +  50 t |   |             |   |     |  11-21 m |       |             |          |  8,40 m |          |       |          |  9.8 m/s |             |           |       | 360°      |       | EN13000   |       |   |                                                                                     |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------|---|-----|-------------------------------------------------------------------------------------------|-------|-------------|----------|------------------------------------------------------------------------------------------|----------|-------|----------|--------------------------------------------------------------------------------------------|-------------|-----------|-------|-----------|-------|-----------|-------|---|-------------------------------------------------------------------------------------|--|
|  123 m                                                                                          |   |             |   |     |                                                                                           |       |             |          |                                                                                          |          |       |          |                                                                                            |             |           |       |           |       |           |       |   |                                                                                     |  |
| LSL+LF_2                                                                                                                                                                         |   |             |   |     | LSL+LF_3                                                                                  |       |             | LSL+LF_4 |                                                                                          | LSL+LF_6 |       | LSL+LF_8 |                                                                                            |             | LSL+LF_10 |       | LSL+LF_12 |       | LSL+LF_14 |       |   |                                                                                     |  |
|  12 m                                                                                           |   |             |   |     |                                                                                           |       |             |          |                                                                                          |          |       |          |                                                                                            |             |           |       |           |       |           |       |   |                                                                                     |  |
| 0 t                                                                                                                                                                              |   | 0 t - 325 t |   |     | 0 t                                                                                       |       | 0 t - 325 t |          |                                                                                          |          |       | 0 t      |                                                                                            | 0 t - 325 t |           |       |           |       |           |       |   |                                                                                     |  |
| 15°                                                                                                                                                                              |   | 20°         |   | 30° |                                                                                           | 15°   |             | 20°      |                                                                                          | 15°      |       | 20°      |                                                                                            | 15°         |           | 20°   |           | 15°   |           | 20°   |   |  |  |
| m                                                                                                                                                                                | t | t           | t | t   | t                                                                                         | t     | t           | t        | t                                                                                        | t        | t     | t        | t                                                                                          | t           | t         | t     | t         | t     | t         | t     | t | m                                                                                   |  |
| 17                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | -     | -           | 120,0    | -                                                                                        | 129,0    | -     | 100,0    | 143,0                                                                                      | -           | 148,0     | -     | 154,0     | -     | 170,0     | -     | - | 17                                                                                  |  |
| 18                                                                                                                                                                               | - | -           | - | -   | 88,5                                                                                      | 119,0 | 106,0       | 120,0    | 109,0                                                                                    | 129,0    | 116,0 | 94,5     | 143,0                                                                                      | 130,0       | 148,0     | 130,0 | 154,0     | 130,0 | 170,0     | 127,0 | - | 18                                                                                  |  |
| 20                                                                                                                                                                               | - | -           | - | -   | 78,5                                                                                      | 119,0 | 106,0       | 120,0    | 109,0                                                                                    | 129,0    | 112,0 | 84,0     | 143,0                                                                                      | 125,0       | 148,0     | 125,0 | 154,0     | 125,0 | 169,0     | 123,0 | - | 20                                                                                  |  |
| 22                                                                                                                                                                               | - | -           | - | -   | 70,7                                                                                      | 119,0 | 106,0       | 120,0    | 109,0                                                                                    | 129,0    | 108,0 | 75,7     | 143,0                                                                                      | 122,0       | 148,0     | 122,0 | 153,5     | 122,0 | 162,0     | 119,0 | - | 22                                                                                  |  |
| 24                                                                                                                                                                               | - | -           | - | -   | 63,0                                                                                      | 119,0 | 106,0       | 120,0    | 109,0                                                                                    | 129,0    | 105,0 | 67,5     | 143,0                                                                                      | 118,0       | 148,0     | 118,0 | 153,0     | 118,0 | 156,0     | 115,0 | - | 24                                                                                  |  |
| 26                                                                                                                                                                               | - | -           | - | -   | 57,0                                                                                      | 118,0 | 106,0       | 119,5    | 109,0                                                                                    | 127,0    | 102,0 | 61,0     | 143,0                                                                                      | 115,0       | 147,0     | 115,0 | 150,0     | 115,0 | 150,5     | 112,0 | - | 26                                                                                  |  |
| 28                                                                                                                                                                               | - | -           | - | -   | 51,0                                                                                      | 117,0 | 103,0       | 119,0    | 108,0                                                                                    | 125,0    | 99,0  | 54,5     | 143,0                                                                                      | 112,0       | 147,0     | 112,0 | 147,0     | 112,0 | 145,0     | 109,0 | - | 28                                                                                  |  |
| 30                                                                                                                                                                               | - | -           | - | -   | 46,4                                                                                      | 115,5 | 101,0       | 118,0    | 106,0                                                                                    | 121,0    | 96,0  | 49,6     | 140,5                                                                                      | 109,0       | 142,5     | 109,0 | 142,5     | 109,0 | 140,0     | 106,0 | - | 30                                                                                  |  |
| 34                                                                                                                                                                               | - | -           | - | -   | 38,0                                                                                      | 112,5 | 97,0        | 117,0    | 102,0                                                                                    | 113,5    | 91,0  | 40,6     | 134,0                                                                                      | 103,6       | 134,0     | 103,6 | 134,0     | 103,6 | 131,0     | 100,5 | - | 34                                                                                  |  |
| 38                                                                                                                                                                               | - | -           | - | -   | 31,0                                                                                      | 109,0 | 93,0        | 115,0    | 97,8                                                                                     | 106,6    | 86,5  | 33,2     | 126,3                                                                                      | 98,6        | 126,3     | 98,6  | 126,3     | 98,6  | 123,0     | 95,5  | - | 38                                                                                  |  |
| 42                                                                                                                                                                               | - | -           | - | -   | 25,0                                                                                      | 105,0 | 89,0        | 111,0    | 93,5                                                                                     | 100,0    | 82,5  | 26,7     | 119,0                                                                                      | 94,0        | 119,0     | 94,0  | 119,0     | 94,0  | 116,0     | 91,0  | - | 42                                                                                  |  |
| 46                                                                                                                                                                               | - | -           | - | -   | 20,2                                                                                      | 100,3 | 85,3        | 107,0    | 89,8                                                                                     | 95,3     | 78,8  | 21,6     | 113,0                                                                                      | 90,0        | 113,0     | 90,0  | 113,0     | 90,0  | 110,0     | 87,0  | - | 46                                                                                  |  |
| 50                                                                                                                                                                               | - | -           | - | -   | 15,9                                                                                      | 94,0  | 81,6        | 103,0    | 86,3                                                                                     | 90,8     | 75,5  | 17,0     | 107,3                                                                                      | 86,3        | 107,3     | 86,3  | 107,3     | 86,3  | 104,6     | 83,3  | - | 50                                                                                  |  |
| 54                                                                                                                                                                               | - | -           | - | -   | 12,1                                                                                      | 87,0  | 78,0        | 99,0     | 83,0                                                                                     | 86,5     | 72,5  | 13,0     | 102,0                                                                                      | 83,0        | 102,0     | 83,0  | 102,0     | 83,0  | 99,6      | 80,0  | - | 54                                                                                  |  |
| 58                                                                                                                                                                               | - | -           | - | -   | 8,5                                                                                       | 82,3  | 74,6        | 94,1     | 79,5                                                                                     | 82,6     | 69,7  | 9,2      | 98,0                                                                                       | 80,0        | 98,0      | 80,0  | 98,0      | 80,0  | 95,0      | 77,0  | - | 58                                                                                  |  |
| 62                                                                                                                                                                               | - | -           | - | -   | 5,1                                                                                       | 78,0  | 71,5        | 90,0     | 76,5                                                                                     | 79,3     | 67,1  | 5,6      | 94,0                                                                                       | 77,3        | 94,0      | 77,2  | 94,0      | 77,3  | 91,0      | 74,3  | - | 62                                                                                  |  |
| 64                                                                                                                                                                               | - | -           | - | -   | 3,6                                                                                       | 74,2  | 70,2        | 88,0     | 75,0                                                                                     | 77,6     | 65,8  | 4,0      | 92,0                                                                                       | 76,1        | 92,0      | 76,0  | 92,0      | 75,9  | 89,0      | 73,0  | - | 64                                                                                  |  |
| 66                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 72,5  | 69,0        | 86,0     | 73,5                                                                                     | 76,0     | 64,5  | -        | 90,0                                                                                       | 74,5        | 90,0      | 74,5  | 90,0      | 74,5  | 87,3      | 71,9  | - | 66                                                                                  |  |
| 70                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 69,8  | 65,0        | 82,0     | 71,1                                                                                     | 73,0     | 62,5  | -        | 86,6                                                                                       | 72,5        | 86,6      | 72,5  | 86,1      | 72,5  | 84,0      | 69,5  | - | 70                                                                                  |  |
| 74                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 66,3  | 62,8        | 77,8     | 69,0                                                                                     | 70,3     | 60,6  | -        | 83,5                                                                                       | 70,5        | 83,3      | 70,5  | 82,6      | 70,5  | 81,0      | 67,5  | - | 74                                                                                  |  |
| 78                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 64,0  | 60,5        | 73,5     | 67,0                                                                                     | 68,0     | 59,0  | -        | 80,5                                                                                       | 68,5        | 80,0      | 68,5  | 79,0      | 68,5  | 77,1      | 65,5  | - | 78                                                                                  |  |
| 82                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 61,8  | 58,8        | 68,1     | 65,0                                                                                     | 64,3     | 57,3  | -        | 74,8                                                                                       | 66,5        | 74,3      | 66,5  | 73,3      | 66,5  | 72,5      | 63,5  | - | 82                                                                                  |  |
| 86                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 60,3  | 57,3        | 63,1     | 62,0                                                                                     | 60,1     | 55,7  | -        | 69,5                                                                                       | 64,8        | 69,0      | 64,8  | 68,0      | 64,6  | 66,8      | 62,1  | - | 86                                                                                  |  |
| 90                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 59,0  | 56,0        | 58,5     | 58,0                                                                                     | 55,5     | 54,5  | -        | 64,5                                                                                       | 63,5        | 64,0      | 63,5  | 63,0      | 63,0  | 61,3      | 60,8  | - | 90                                                                                  |  |
| 94                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 55,0  | 54,2        | 53,9     | 54,0                                                                                     | 51,3     | 50,3  | -        | 60,0                                                                                       | 60,0        | 59,5      | 59,7  | 58,6      | 58,6  | 56,5      | 57,5  | - | 94                                                                                  |  |
| 98                                                                                                                                                                               | - | -           | - | -   | -                                                                                         | 51,2  | 51,2        | 48,6     | 49,6                                                                                     | 47,3     | 46,3  | -        | 55,6                                                                                       | 55,8        | 55,1      | 55,3  | 54,3      | 54,3  | 52,1      | 52,8  | - | 98                                                                                  |  |
| 102                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 47,6  | 47,8        | 42,9     | 44,8                                                                                     | 43,5     | 42,3  | -        | 51,0                                                                                       | 51,5        | 50,5      | 51,0  | 50,0      | 50,0  | 48,0      | 48,6  | - | 102                                                                                 |  |
| 106                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 44,3  | 44,5        | 37,4     | 38,4                                                                                     | 39,9     | 38,8  | -        | 47,4                                                                                       | 47,7        | 46,9      | 47,2  | 46,2      | 46,6  | 44,0      | 44,6  | - | 106                                                                                 |  |
| 110                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 41,3  | 41,4        | 32,4     | 33,6                                                                                     | 36,6     | 35,5  | -        | 44,0                                                                                       | 44,5        | 43,5      | 44,0  | 42,8      | 43,3  | 40,4      | 41,0  | - | 110                                                                                 |  |
| 114                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 38,5  | 38,6        | 28,0     | 27,7                                                                                     | 33,5     | 32,5  | -        | 40,8                                                                                       | 41,5        | 40,4      | 41,1  | 39,7      | 40,4  | 37,2      | 37,7  | - | 114                                                                                 |  |
| 116                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 37,2  | 37,3        | 25,3     | 19,9                                                                                     | 32,1     | 31,1  | -        | 39,5                                                                                       | 40,3        | 39,1      | 39,9  | 38,3      | 39,2  | 35,7      | 36,2  | - | 116                                                                                 |  |
| 117                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 36,5  | 17,8        | 23,9     | -                                                                                        | 31,5     | -     | -        | 38,9                                                                                       | -           | 38,5      | -     | 37,7      | -     | 34,9      | -     | - | 117                                                                                 |  |
| 118                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 35,9  | -           | 22,6     | -                                                                                        | 30,8     | -     | -        | 38,2                                                                                       | -           | 37,8      | -     | 37,1      | -     | 34,2      | -     | - | 118                                                                                 |  |
| 120                                                                                                                                                                              | - | -           | - | -   | -                                                                                         | 34,7  | -           | 20,5     | -                                                                                        | 29,5     | -     | -        | 37,0                                                                                       | -           | 36,6      | -     | 35,9      | -     | 32,8      | -     | - | 120                                                                                 |  |

 0 t   65 t   95 t   125 t   165 t   205 t   265 t   325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t



# Operation

LSL+LF

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| 165 t +  50 t |      |  11-21 m |      |  8,40 m |      |  9.8 m/s |       | 360°     |       | EN13000     |       |           |       |           |       |       |       |       |       |       |     |                                                                                     |  |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------|-------|----------|-------|-------------|-------|-----------|-------|-----------|-------|-------|-------|-------|-------|-------|-----|-------------------------------------------------------------------------------------|--|
|  126 m        |      |                                                                                           |      |                                                                                          |      |                                                                                            |       |          |       |             |       |           |       |           |       |       |       |       |       |       |     |                                                                                     |  |
| LSL+LF_2                                                                                       |      | LSL+LF_3                                                                                  |      | LSL+LF_4                                                                                 |      | LSL+LF_6                                                                                   |       | LSL+LF_8 |       | LSL+LF_10   |       | LSL+LF_12 |       | LSL+LF_14 |       |       |       |       |       |       |     |                                                                                     |  |
|  12 m         |      |                                                                                           |      |                                                                                          |      |                                                                                            |       |          |       |             |       |           |       |           |       |       |       |       |       |       |     |                                                                                     |  |
| 0 t                                                                                            |      | 0 t - 325 t                                                                               |      | 0 t                                                                                      |      | 0 t - 325 t                                                                                |       | 0 t      |       | 0 t - 325 t |       |           |       |           |       |       |       |       |       |       |     |                                                                                     |  |
|  15°          |      | 20°                                                                                       |      | 30°                                                                                      |      | 15°                                                                                        |       | 20°      |       | 15°         |       | 20°       |       | 15°       |       | 20°   |       | 15°   |       | 20°   |     |  |  |
| m                                                                                              | t    | t                                                                                         | t    | t                                                                                        | t    | t                                                                                          | t     | t        | t     | t           | t     | t         | t     | t         | t     | t     | t     | t     | t     | t     | t   | m                                                                                   |  |
| 17                                                                                             | 95,0 | 99,0                                                                                      | -    | -                                                                                        | -    | -                                                                                          | -     | 108,0    | -     | 121,0       | -     | 99,5      | 133,0 | -         | 138,0 | -     | 151,0 | -     | 167,0 | -     | 17  |                                                                                     |  |
| 18                                                                                             | 90,0 | 99,0                                                                                      | 96,5 | -                                                                                        | 88,5 | 107,0                                                                                      | 105,0 | 108,0    | 105,0 | 121,0       | 116,0 | 93,5      | 133,0 | 129,0     | 138,0 | 130,0 | 151,0 | 130,0 | 167,0 | 127,0 | 18  |                                                                                     |  |
| 20                                                                                             | 80,0 | 98,5                                                                                      | 96,0 | 80,0                                                                                     | 79,0 | 107,0                                                                                      | 104,0 | 108,0    | 104,0 | 121,0       | 112,0 | 83,5      | 133,0 | 126,0     | 138,0 | 126,0 | 151,0 | 126,0 | 166,0 | 123,0 | 20  |                                                                                     |  |
| 22                                                                                             | 72,0 | 98,0                                                                                      | 96,0 | 78,0                                                                                     | 71,2 | 106,5                                                                                      | 104,0 | 107,5    | 104,0 | 121,0       | 109,0 | 75,2      | 133,0 | 122,0     | 138,0 | 122,0 | 150,5 | 122,0 | 163,0 | 119,0 | 22  |                                                                                     |  |
| 24                                                                                             | 65,0 | 98,0                                                                                      | 95,5 | 76,0                                                                                     | 63,5 | 106,0                                                                                      | 104,0 | 107,0    | 104,0 | 121,0       | 105,0 | 67,0      | 133,0 | 119,0     | 138,0 | 119,0 | 150,0 | 119,0 | 157,0 | 116,0 | 24  |                                                                                     |  |
| 26                                                                                             | 58,5 | 97,5                                                                                      | 95,5 | 74,5                                                                                     | 57,7 | 105,5                                                                                      | 103,0 | 106,5    | 103,0 | 121,0       | 102,0 | 60,7      | 133,0 | 115,0     | 137,5 | 115,0 | 149,5 | 115,0 | 151,5 | 112,5 | 26  |                                                                                     |  |
| 28                                                                                             | 53,0 | 96,5                                                                                      | 95,0 | 73,0                                                                                     | 52,0 | 105,0                                                                                      | 103,0 | 106,0    | 102,0 | 121,0       | 99,5  | 54,5      | 133,0 | 112,0     | 137,0 | 112,0 | 149,0 | 112,0 | 146,0 | 109,0 | 28  |                                                                                     |  |
| 30                                                                                             | 48,1 | 96,0                                                                                      | 94,0 | 71,5                                                                                     | 47,4 | 104,5                                                                                      | 102,0 | 105,0    | 102,0 | 119,5       | 97,0  | 49,6      | 132,5 | 109,0     | 137,0 | 109,0 | 144,0 | 109,0 | 141,0 | 106,0 | 30  |                                                                                     |  |
| 34                                                                                             | 39,9 | 94,8                                                                                      | 92,6 | 68,8                                                                                     | 39,0 | 103,5                                                                                      | 100,6 | 103,5    | 100,3 | 114,5       | 92,0  | 40,6      | 131,5 | 103,6     | 134,0 | 103,6 | 135,0 | 103,6 | 132,0 | 100,7 | 34  |                                                                                     |  |
| 38                                                                                             | 32,8 | 93,6                                                                                      | 91,0 | 66,3                                                                                     | 32,1 | 102,0                                                                                      | 99,1  | 102,0    | 98,5  | 107,6       | 87,3  | 33,3      | 126,6 | 98,8      | 127,3 | 98,8  | 127,3 | 98,8  | 124,5 | 96,2  | 38  |                                                                                     |  |
| 42                                                                                             | 26,8 | 92,0                                                                                      | 89,0 | 64,0                                                                                     | 26,1 | 100,0                                                                                      | 97,5  | 100,0    | 96,5  | 101,0       | 83,0  | 26,9      | 120,0 | 94,5      | 120,0 | 94,5  | 120,0 | 94,5  | 117,6 | 91,8  | 42  |                                                                                     |  |
| 46                                                                                             | 22,0 | 90,0                                                                                      | 86,6 | 62,0                                                                                     | 21,3 | 98,0                                                                                       | 95,5  | 97,6     | 93,8  | 96,3        | 79,3  | 21,9      | 114,0 | 90,8      | 114,0 | 90,8  | 114,0 | 90,8  | 111,0 | 87,5  | 46  |                                                                                     |  |
| 50                                                                                             | 17,7 | 87,8                                                                                      | 84,1 | 60,0                                                                                     | 17,1 | 95,0                                                                                       | 92,1  | 93,1     | 89,8  | 91,8        | 76,0  | 17,3      | 108,3 | 87,1      | 108,3 | 87,1  | 108,3 | 87,1  | 105,6 | 84,1  | 50  |                                                                                     |  |
| 54                                                                                             | 13,9 | 85,5                                                                                      | 81,5 | 58,0                                                                                     | 13,4 | 93,0                                                                                       | 89,0  | 90,0     | 86,5  | 87,5        | 73,0  | 13,3      | 103,0 | 83,5      | 103,0 | 83,5  | 103,0 | 83,5  | 100,6 | 81,0  | 54  |                                                                                     |  |
| 58                                                                                             | 10,2 | 82,0                                                                                      | 77,6 | 56,3                                                                                     | 9,7  | 89,5                                                                                       | 85,3  | 86,8     | 83,5  | 83,5        | 70,3  | 9,5       | 99,0  | 80,8      | 99,0  | 80,8  | 99,0  | 80,8  | 96,0  | 78,0  | 58  |                                                                                     |  |
| 62                                                                                             | 6,8  | 78,3                                                                                      | 75,1 | 54,9                                                                                     | 6,3  | 86,0                                                                                       | 82,3  | 84,2     | 79,2  | 80,2        | 67,9  | 6,0       | 95,0  | 78,1      | 95,0  | 78,1  | 95,1  | 78,1  | 92,0  | 75,0  | 62  |                                                                                     |  |
| 65                                                                                             | 4,5  | 76,5                                                                                      | 73,0 | 54,0                                                                                     | 4,1  | 84,0                                                                                       | 80,5  | 81,2     | 77,2  | 77,8        | 66,1  | 3,6       | 92,2  | 76,1      | 92,2  | 76,1  | 92,4  | 76,1  | 89,1  | 72,9  | 65  |                                                                                     |  |
| 66                                                                                             | 3,8  | 75,5                                                                                      | 72,5 | 53,5                                                                                     | -    | 83,5                                                                                       | 80,0  | 79,5     | 76,5  | 77,0        | 65,5  | -         | 91,5  | 75,5      | 91,5  | 75,5  | 91,5  | 75,5  | 88,3  | 72,3  | 66  |                                                                                     |  |
| 70                                                                                             | -    | 71,8                                                                                      | 68,1 | 52,2                                                                                     | -    | 80,1                                                                                       | 76,1  | 76,8     | 72,6  | 74,0        | 63,1  | -         | 88,1  | 73,1      | 88,0  | 73,1  | 88,1  | 73,1  | 85,0  | 70,0  | 70  |                                                                                     |  |
| 74                                                                                             | -    | 69,0                                                                                      | 65,3 | 51,0                                                                                     | -    | 77,6                                                                                       | 73,0  | 73,3     | 70,5  | 71,3        | 61,1  | -         | 84,6  | 71,0      | 84,5  | 71,0  | 83,8  | 71,0  | 82,0  | 68,0  | 74  |                                                                                     |  |
| 78                                                                                             | -    | 67,0                                                                                      | 63,0 | 50,0                                                                                     | -    | 75,0                                                                                       | 71,0  | 71,0     | 68,5  | 69,0        | 59,5  | -         | 81,0  | 69,0      | 80,5  | 69,0  | 78,5  | 69,0  | 77,6  | 66,1  | 78  |                                                                                     |  |
| 82                                                                                             | -    | 64,5                                                                                      | 61,6 | 49,2                                                                                     | -    | 69,6                                                                                       | 68,3  | 68,0     | 66,3  | 65,6        | 57,8  | -         | 75,0  | 67,0      | 74,5  | 67,0  | 72,5  | 67,0  | 72,0  | 64,5  | 82  |                                                                                     |  |
| 86                                                                                             | -    | 62,5                                                                                      | 60,0 | 48,4                                                                                     | -    | 64,6                                                                                       | 64,8  | 64,3     | 63,6  | 61,6        | 56,3  | -         | 69,5  | 65,3      | 69,1  | 65,3  | 67,0  | 65,0  | 66,3  | 62,8  | 86  |                                                                                     |  |
| 90                                                                                             | -    | 60,5                                                                                      | 59,0 | 47,6                                                                                     | -    | 60,0                                                                                       | 60,5  | 60,0     | 60,0  | 57,0        | 55,0  | -         | 64,5  | 64,0      | 64,5  | 64,0  | 62,0  | 62,5  | 61,1  | 60,5  | 90  |                                                                                     |  |
| 94                                                                                             | -    | 56,5                                                                                      | 56,2 | 46,9                                                                                     | -    | 56,0                                                                                       | 56,1  | 56,0     | 56,0  | 52,6        | 52,0  | -         | 60,0  | 60,5      | 60,0  | 60,0  | 57,6  | 57,8  | 56,5  | 56,5  | 94  |                                                                                     |  |
| 98                                                                                             | -    | 52,7                                                                                      | 52,7 | 46,3                                                                                     | -    | 52,2                                                                                       | 52,6  | 52,2     | 52,2  | 48,7        | 48,6  | -         | 55,8  | 56,3      | 55,8  | 55,8  | 53,5  | 53,5  | 52,1  | 52,1  | 98  |                                                                                     |  |
| 102                                                                                            | -    | 49,1                                                                                      | 49,3 | 45,8                                                                                     | -    | 48,8                                                                                       | 49,0  | 48,6     | 48,8  | 45,2        | 44,9  | -         | 51,5  | 52,0      | 51,5  | 51,5  | 49,5  | 49,6  | 47,9  | 48,0  | 102 |                                                                                     |  |
| 105                                                                                            | -    | 46,7                                                                                      | 46,8 | 36,4                                                                                     | -    | 46,4                                                                                       | 46,5  | 46,2     | 46,3  | 42,7        | 42,2  | -         | 48,7  | 49,2      | 48,6  | 48,8  | 46,6  | 46,8  | 44,9  | 45,0  | 105 |                                                                                     |  |
| 106                                                                                            | -    | 45,9                                                                                      | 46,0 | -                                                                                        | -    | 45,6                                                                                       | 45,7  | 45,4     | 45,5  | 41,9        | 41,3  | -         | 47,8  | 48,2      | 47,7  | 47,9  | 45,6  | 45,8  | 43,9  | 44,0  | 106 |                                                                                     |  |
| 110                                                                                            | -    | 42,8                                                                                      | 42,9 | -                                                                                        | -    | 42,5                                                                                       | 42,5  | 42,3     | 42,4  | 38,8        | 38,0  | -         | 44,3  | 44,8      | 44,2  | 44,6  | 42,0  | 42,4  | 40,3  | 40,4  | 110 |                                                                                     |  |
| 114                                                                                            | -    | 40,0                                                                                      | 40,1 | -                                                                                        | -    | 39,7                                                                                       | 39,4  | 39,5     | 39,6  | 36,0        | 35,0  | -         | 41,1  | 41,7      | 41,0  | 41,5  | 38,8  | 39,4  | 37,0  | 37,1  | 114 |                                                                                     |  |
| 118                                                                                            | -    | 37,4                                                                                      | 37,5 | -                                                                                        | -    | 35,9                                                                                       | 35,6  | 36,9     | 37,0  | 33,2        | 32,2  | -         | 38,4  | 39,1      | 38,3  | 39,0  | 36,2  | 36,9  | 33,8  | 34,0  | 118 |                                                                                     |  |
| 119                                                                                            | -    | 36,8                                                                                      | 36,9 | -                                                                                        | -    | 34,9                                                                                       | -     | 36,3     | 36,4  | 32,5        | -     | -         | 37,7  | -         | 37,6  | -     | 35,5  | -     | 33,1  | -     | 119 |                                                                                     |  |
| 122                                                                                            | -    | 35,0                                                                                      | -    | -                                                                                        | -    | 31,8                                                                                       | -     | 34,6     | -     | 30,6        | -     | -         | 36,0  | -         | 35,8  | -     | 33,8  | -     | 31,1  | -     | 122 |                                                                                     |  |



|     |      |      |       |       |       |       |       |
|-----|------|------|-------|-------|-------|-------|-------|
| 0 t | 65 t | 95 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|-----|------|------|-------|-------|-------|-------|-------|

 0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

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| 165 t +  50 t |   |          |   |  11-21 m |      |       |          |  8,40 m |       |       |       |  9.8 m/s |       |       |          | 360°     |       |       |       | EN13000   |   |     |   |           |  |  |  |           |  |  |  |
|------------------------------------------------------------------------------------------------|---|----------|---|-------------------------------------------------------------------------------------------|------|-------|----------|------------------------------------------------------------------------------------------|-------|-------|-------|--------------------------------------------------------------------------------------------|-------|-------|----------|----------|-------|-------|-------|-----------|---|-----|---|-----------|--|--|--|-----------|--|--|--|
|  129 m        |   |          |   |                                                                                           |      |       |          |                                                                                          |       |       |       |                                                                                            |       |       |          |          |       |       |       |           |   |     |   |           |  |  |  |           |  |  |  |
| LSL+LF_2                                                                                       |   |          |   | LSL+LF_3                                                                                  |      |       |          | LSL+LF_4                                                                                 |       |       |       | LSL+LF_6                                                                                   |       |       |          | LSL+LF_8 |       |       |       | LSL+LF_10 |   |     |   | LSL+LF_12 |  |  |  | LSL+LF_14 |  |  |  |
|  12 m         |   |          |   |                                                                                           |      |       |          |                                                                                          |       |       |       |                                                                                            |       |       |          |          |       |       |       |           |   |     |   |           |  |  |  |           |  |  |  |
| 0 t                                                                                            |   | 0 t-325t |   |                                                                                           | 0 t  |       | 0 t-325t |                                                                                          |       |       |       |                                                                                            | 0 t   |       | 0 t-325t |          |       |       |       |           |   |     |   |           |  |  |  |           |  |  |  |
| 15°                                                                                            |   | 20°      |   | 30°                                                                                       |      | 15°   |          | 20°                                                                                      |       | 15°   |       | 20°                                                                                        |       | 15°   |          | 20°      |       | 15°   |       | 20°       |   | 15° |   | 20°       |  |  |  |           |  |  |  |
| m                                                                                              | t | t        | t | t                                                                                         | t    | t     | t        | t                                                                                        | t     | t     | t     | t                                                                                          | t     | t     | t        | t        | t     | t     | t     | t         | t | t   | t | m         |  |  |  |           |  |  |  |
| 17                                                                                             | - | -        | - | -                                                                                         | -    | -     | -        | 103,0                                                                                    | -     | 116,0 | -     | 97,0                                                                                       | 128,0 | -     | 133,0    | -        | 145,0 | -     | 161,0 | -         |   |     |   | 17        |  |  |  |           |  |  |  |
| 18                                                                                             | - | -        | - | -                                                                                         | 86,5 | 102,0 | 101,0    | 103,0                                                                                    | 100,0 | 116,0 | 113,0 | 91,5                                                                                       | 128,0 | 124,0 | 133,0    | 129,0    | 145,0 | 130,0 | 161,0 | 128,0     |   |     |   | 18        |  |  |  |           |  |  |  |
| 20                                                                                             | - | -        | - | -                                                                                         | 77,0 | 102,0 | 100,0    | 103,0                                                                                    | 100,0 | 115,0 | 113,0 | 81,5                                                                                       | 128,0 | 124,0 | 133,0    | 126,0    | 145,0 | 126,0 | 161,0 | 124,0     |   |     |   | 20        |  |  |  |           |  |  |  |
| 22                                                                                             | - | -        | - | -                                                                                         | 69,5 | 101,5 | 100,0    | 102,5                                                                                    | 100,0 | 115,0 | 109,0 | 73,2                                                                                       | 128,0 | 123,0 | 133,0    | 123,0    | 145,0 | 123,0 | 161,0 | 120,0     |   |     |   | 22        |  |  |  |           |  |  |  |
| 24                                                                                             | - | -        | - | -                                                                                         | 62,0 | 101,0 | 100,0    | 102,0                                                                                    | 100,0 | 115,0 | 106,0 | 65,0                                                                                       | 128,0 | 119,0 | 133,0    | 119,0    | 145,0 | 119,0 | 158,0 | 116,0     |   |     |   | 24        |  |  |  |           |  |  |  |
| 26                                                                                             | - | -        | - | -                                                                                         | 56,2 | 101,0 | 100,0    | 101,5                                                                                    | 100,0 | 115,0 | 103,0 | 59,0                                                                                       | 128,0 | 116,0 | 132,5    | 116,0    | 144,5 | 116,0 | 152,5 | 113,0     |   |     |   | 26        |  |  |  |           |  |  |  |
| 28                                                                                             | - | -        | - | -                                                                                         | 50,5 | 101,0 | 99,5     | 101,0                                                                                    | 99,5  | 115,0 | 100,0 | 53,0                                                                                       | 128,0 | 113,0 | 132,0    | 113,0    | 144,0 | 113,0 | 147,0 | 110,0     |   |     |   | 28        |  |  |  |           |  |  |  |
| 30                                                                                             | - | -        | - | -                                                                                         | 45,8 | 100,5 | 99,0     | 101,0                                                                                    | 99,0  | 114,5 | 97,5  | 48,0                                                                                       | 127,5 | 110,0 | 132,0    | 110,0    | 142,0 | 110,0 | 142,5 | 107,0     |   |     |   | 30        |  |  |  |           |  |  |  |
| 34                                                                                             | - | -        | - | -                                                                                         | 37,4 | 99,2  | 97,6     | 100,5                                                                                    | 97,3  | 113,0 | 92,5  | 39,0                                                                                       | 126,5 | 104,6 | 131,0    | 104,6    | 136,0 | 104,6 | 133,5 | 101,5     |   |     |   | 34        |  |  |  |           |  |  |  |
| 38                                                                                             | - | -        | - | -                                                                                         | 30,7 | 98,5  | 96,3     | 99,3                                                                                     | 95,8  | 108,6 | 88,0  | 31,8                                                                                       | 123,6 | 99,8  | 127,0    | 99,8     | 128,3 | 99,8  | 125,5 | 96,7      |   |     |   | 38        |  |  |  |           |  |  |  |
| 42                                                                                             | - | -        | - | -                                                                                         | 24,7 | 97,5  | 95,0     | 98,0                                                                                     | 94,5  | 102,0 | 84,0  | 25,4                                                                                       | 121,0 | 95,5  | 121,0    | 95,5     | 121,0 | 95,5  | 118,6 | 92,5      |   |     |   | 42        |  |  |  |           |  |  |  |
| 46                                                                                             | - | -        | - | -                                                                                         | 20,0 | 95,8  | 93,3     | 96,0                                                                                     | 92,5  | 97,3  | 80,3  | 20,4                                                                                       | 114,3 | 91,5  | 115,0    | 91,5     | 115,0 | 91,5  | 112,0 | 88,5      |   |     |   | 46        |  |  |  |           |  |  |  |
| 50                                                                                             | - | -        | - | -                                                                                         | 15,8 | 93,1  | 90,6     | 92,5                                                                                     | 89,5  | 92,8  | 76,8  | 15,9                                                                                       | 109,6 | 87,8  | 109,6    | 87,8     | 109,6 | 87,8  | 106,6 | 84,8      |   |     |   | 50        |  |  |  |           |  |  |  |
| 54                                                                                             | - | -        | - | -                                                                                         | 12,0 | 91,5  | 89,0     | 90,5                                                                                     | 87,5  | 88,5  | 73,5  | 11,9                                                                                       | 105,0 | 84,5  | 105,0    | 84,5     | 105,0 | 84,5  | 101,6 | 81,5      |   |     |   | 54        |  |  |  |           |  |  |  |
| 58                                                                                             | - | -        | - | -                                                                                         | 8,5  | 88,5  | 86,3     | 87,5                                                                                     | 83,6  | 84,5  | 71,0  | 8,3                                                                                        | 100,3 | 81,5  | 100,3    | 81,5     | 100,3 | 81,5  | 97,0  | 78,5      |   |     |   | 58        |  |  |  |           |  |  |  |
| 62                                                                                             | - | -        | - | -                                                                                         | 5,2  | 85,8  | 84,5     | 85,5                                                                                     | 81,1  | 81,0  | 68,3  | 4,8                                                                                        | 96,0  | 78,7  | 96,0     | 78,6     | 96,1  | 78,6  | 93,0  | 75,5      |   |     |   | 62        |  |  |  |           |  |  |  |
| 63                                                                                             | - | -        | - | -                                                                                         | 4,4  | 85,5  | 84,0     | 84,0                                                                                     | 80,5  | 80,2  | 67,7  | 4,0                                                                                        | 95,0  | 78,1  | 95,1     | 78,0     | 95,2  | 78,0  | 92,0  | 75,0      |   |     |   | 63        |  |  |  |           |  |  |  |
| 64                                                                                             | - | -        | - | -                                                                                         | 3,7  | 85,0  | 82,3     | 83,5                                                                                     | 79,8  | 79,5  | 67,1  | -                                                                                          | 94,1  | 77,5  | 94,2     | 77,3     | 94,3  | 77,3  | 91,0  | 74,5      |   |     |   | 64        |  |  |  |           |  |  |  |
| 66                                                                                             | - | -        | - | -                                                                                         | -    | 84,0  | 80,5     | 82,5                                                                                     | 78,5  | 78,0  | 66,0  | -                                                                                          | 92,5  | 76,0  | 92,5     | 76,0     | 92,5  | 76,0  | 89,3  | 73,3      |   |     |   | 66        |  |  |  |           |  |  |  |
| 70                                                                                             | - | -        | - | -                                                                                         | -    | 81,0  | 77,8     | 79,1                                                                                     | 75,6  | 75,0  | 64,0  | -                                                                                          | 89,1  | 73,6  | 89,1     | 73,6     | 89,1  | 73,6  | 86,0  | 71,0      |   |     |   | 70        |  |  |  |           |  |  |  |
| 74                                                                                             | - | -        | - | -                                                                                         | -    | 78,0  | 75,5     | 76,6                                                                                     | 72,6  | 72,1  | 62,0  | -                                                                                          | 85,0  | 71,5  | 84,8     | 71,5     | 84,1  | 71,5  | 82,0  | 68,6      |   |     |   | 74        |  |  |  |           |  |  |  |
| 78                                                                                             | - | -        | - | -                                                                                         | -    | 74,0  | 73,5     | 74,0                                                                                     | 71,0  | 69,5  | 60,0  | -                                                                                          | 80,0  | 69,5  | 79,5     | 69,5     | 77,5  | 69,5  | 76,6  | 66,6      |   |     |   | 78        |  |  |  |           |  |  |  |
| 82                                                                                             | - | -        | - | -                                                                                         | -    | 68,6  | 68,8     | 68,6                                                                                     | 67,6  | 65,1  | 58,3  | -                                                                                          | 74,0  | 67,8  | 73,5     | 67,8     | 71,5  | 67,8  | 70,0  | 65,0      |   |     |   | 82        |  |  |  |           |  |  |  |
| 86                                                                                             | - | -        | - | -                                                                                         | -    | 63,6  | 64,1     | 63,6                                                                                     | 63,6  | 60,4  | 56,7  | -                                                                                          | 68,5  | 66,0  | 68,0     | 65,8     | 66,0  | 66,0  | 64,5  | 63,4      |   |     |   | 86        |  |  |  |           |  |  |  |
| 90                                                                                             | - | -        | - | -                                                                                         | -    | 59,0  | 59,5     | 59,0                                                                                     | 59,0  | 56,0  | 55,5  | -                                                                                          | 63,5  | 64,0  | 63,0     | 63,5     | 61,0  | 61,0  | 59,1  | 60,0      |   |     |   | 90        |  |  |  |           |  |  |  |
| 94                                                                                             | - | -        | - | -                                                                                         | -    | 55,0  | 55,2     | 55,0                                                                                     | 55,0  | 51,7  | 51,4  | -                                                                                          | 59,2  | 59,2  | 58,6     | 59,2     | 56,3  | 56,6  | 54,5  | 55,0      |   |     |   | 94        |  |  |  |           |  |  |  |
| 98                                                                                             | - | -        | - | -                                                                                         | -    | 51,2  | 51,6     | 51,2                                                                                     | 51,2  | 47,7  | 47,3  | -                                                                                          | 54,6  | 54,8  | 54,3     | 54,6     | 52,0  | 52,1  | 50,0  | 50,0      |   |     |   | 98        |  |  |  |           |  |  |  |
| 102                                                                                            | - | -        | - | -                                                                                         | -    | 47,7  | 47,9     | 47,6                                                                                     | 47,8  | 44,1  | 43,5  | -                                                                                          | 50,0  | 50,5  | 50,0     | 50,0     | 47,9  | 48,0  | 46,1  | 46,3      |   |     |   | 102       |  |  |  |           |  |  |  |
| 106                                                                                            | - | -        | - | -                                                                                         | -    | 44,4  | 44,6     | 44,3                                                                                     | 44,5  | 40,8  | 39,9  | -                                                                                          | 46,4  | 46,6  | 46,2     | 46,4     | 44,0  | 44,2  | 42,1  | 42,3      |   |     |   | 106       |  |  |  |           |  |  |  |
| 110                                                                                            | - | -        | - | -                                                                                         | -    | 41,3  | 41,0     | 41,3                                                                                     | 41,4  | 37,6  | 36,5  | -                                                                                          | 42,9  | 43,2  | 42,6     | 43,0     | 40,3  | 40,6  | 38,5  | 38,6      |   |     |   | 110       |  |  |  |           |  |  |  |
| 114                                                                                            | - | -        | - | -                                                                                         | -    | 38,5  | 37,2     | 38,5                                                                                     | 38,6  | 34,5  | 33,5  | -                                                                                          | 39,5  | 40,0  | 39,3     | 39,8     | 37,1  | 37,5  | 35,2  | 35,3      |   |     |   | 114       |  |  |  |           |  |  |  |
| 118                                                                                            | - | -        | - | -                                                                                         | -    | 34,9  | 32,5     | 35,9                                                                                     | 35,8  | 31,7  | 30,7  | -                                                                                          | 36,6  | 37,3  | 36,4     | 37,1     | 34,3  | 34,9  | 32,0  | 32,2      |   |     |   | 118       |  |  |  |           |  |  |  |
| 121                                                                                            | - | -        | - | -                                                                                         | -    | 31,3  | 20,6     | 34,1                                                                                     | 33,9  | 29,7  | 28,8  | -                                                                                          | 34,8  | 35,5  | 34,5     | 35,3     | 32,3  | 33,2  | 29,9  | 30,1      |   |     |   | 121       |  |  |  |           |  |  |  |
| 122                                                                                            | - | -        | - | -                                                                                         | -    | 30,0  | -        | 33,5                                                                                     | -     | 29,1  | -     | -                                                                                          | 34,2  | -     | 33,9     | -        | 31,8  | -     | 29,2  | -         |   |     |   | 122       |  |  |  |           |  |  |  |
| 125                                                                                            | - | -        | - | -                                                                                         | -    | 26,1  | -        | 31,9                                                                                     | -     | 27,3  | -     | -                                                                                          | 32,5  | -     | 32,3     | -        | 30,2  | -     | 27,3  | -         |   |     |   | 125       |  |  |  |           |  |  |  |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6: 11-19 m

LSL+LF\_8 – LSL+LF\_12: 11-21 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |      |  11-21 m |      |  8,40 m |      |  9.8 m/s |      | 360°     |      | EN13000  |       |           |       |           |       |           |       |       |       |                                                                                     |     |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------|------|----------|------|----------|-------|-----------|-------|-----------|-------|-----------|-------|-------|-------|-------------------------------------------------------------------------------------|-----|
| 132 m                                                                                          |      |                                                                                           |      |                                                                                          |      |                                                                                            |      |          |      |          |       |           |       |           |       |           |       |       |       |                                                                                     |     |
| LSL+LF_2                                                                                       |      |                                                                                           |      | LSL+LF_3                                                                                 |      | LSL+LF_4                                                                                   |      | LSL+LF_6 |      | LSL+LF_8 |       | LSL+LF_10 |       | LSL+LF_12 |       | LSL+LF_14 |       |       |       |                                                                                     |     |
| 12 m                                                                                           |      |                                                                                           |      |                                                                                          |      |                                                                                            |      |          |      |          |       |           |       |           |       |           |       |       |       |                                                                                     |     |
| 0 t                                                                                            |      | 0t-325t                                                                                   |      | 0 t                                                                                      |      | 0t-325t                                                                                    |      | 0 t      |      | 0t-325t  |       |           |       |           |       |           |       |       |       |                                                                                     |     |
|  15°          |      | 20°                                                                                       |      | 30°                                                                                      |      | 15°                                                                                        |      | 20°      |      | 15°      |       | 20°       |       | 15°       |       | 20°       |       | 15°   |       |  |     |
| m                                                                                              | t    | t                                                                                         | t    | t                                                                                        | t    | t                                                                                          | t    | t        | t    | t        | t     | t         | t     | t         | t     | t         | t     | t     | t     | m                                                                                   |     |
| 17                                                                                             | 84,0 | 87,0                                                                                      | -    | -                                                                                        | -    | -                                                                                          | -    | -        | -    | -        | -     | -         | -     | -         | -     | -         | -     | -     | -     | 17                                                                                  |     |
| 18                                                                                             | 84,0 | 86,5                                                                                      | 85,0 | -                                                                                        | 84,5 | 98,5                                                                                       | 96,5 | 99,0     | 96,5 | 109,0    | 107,0 | 89,5      | 123,0 | -         | 127,0 | -         | 140,0 | -     | 156,0 | -                                                                                   | 18  |
| 19                                                                                             | 80,2 | 86,5                                                                                      | 84,7 | -                                                                                        | 80,0 | 98,2                                                                                       | 96,2 | 98,7     | 96,5 | 109,0    | 107,0 | 84,5      | 123,0 | 119,0     | 127,0 | 124,0     | 140,0 | 129,0 | 156,0 | 126,0                                                                               | 19  |
| 20                                                                                             | 77,0 | 86,5                                                                                      | 84,5 | 77,0                                                                                     | 75,5 | 98,0                                                                                       | 96,0 | 98,5     | 96,5 | 109,0    | 107,0 | 79,5      | 123,0 | 119,0     | 127,0 | 124,0     | 140,0 | 127,0 | 156,0 | 124,0                                                                               | 20  |
| 22                                                                                             | 69,0 | 86,0                                                                                      | 84,0 | 76,5                                                                                     | 68,0 | 97,7                                                                                       | 96,0 | 98,2     | 96,0 | 109,0    | 107,0 | 71,5      | 123,0 | 119,0     | 127,0 | 123,0     | 140,0 | 123,0 | 156,0 | 120,0                                                                               | 22  |
| 24                                                                                             | 62,0 | 85,5                                                                                      | 84,0 | 76,5                                                                                     | 60,5 | 97,5                                                                                       | 95,5 | 98,0     | 95,5 | 109,0    | 106,0 | 63,5      | 123,0 | 119,0     | 127,0 | 120,0     | 140,0 | 120,0 | 156,0 | 117,0                                                                               | 24  |
| 26                                                                                             | 56,0 | 85,0                                                                                      | 83,5 | 75,0                                                                                     | 54,8 | 97,2                                                                                       | 95,0 | 97,5     | 95,0 | 108,5    | 103,0 | 57,5      | 122,0 | 116,0     | 127,0 | 116,0     | 139,0 | 116,0 | 152,0 | 113,5                                                                               | 26  |
| 28                                                                                             | 50,5 | 84,0                                                                                      | 82,5 | 73,5                                                                                     | 49,2 | 97,0                                                                                       | 94,5 | 97,5     | 95,0 | 108,0    | 100,0 | 51,5      | 122,0 | 113,0     | 127,0 | 113,0     | 138,0 | 113,0 | 148,0 | 110,0                                                                               | 28  |
| 30                                                                                             | 46,0 | 83,5                                                                                      | 82,0 | 72,0                                                                                     | 44,6 | 96,5                                                                                       | 94,0 | 97,0     | 94,5 | 108,0    | 98,0  | 46,7      | 121,5 | 110,0     | 127,0 | 110,0     | 138,0 | 110,0 | 143,5 | 107,5                                                                               | 30  |
| 34                                                                                             | 38,0 | 82,5                                                                                      | 81,0 | 69,3                                                                                     | 36,3 | 95,2                                                                                       | 93,0 | 96,0     | 93,1 | 107,5    | 93,0  | 37,9      | 120,5 | 105,3     | 126,0 | 105,3     | 135,5 | 105,3 | 134,5 | 102,5                                                                               | 34  |
| 38                                                                                             | 31,1 | 81,6                                                                                      | 80,0 | 66,8                                                                                     | 29,6 | 93,8                                                                                       | 91,6 | 94,8     | 91,8 | 105,6    | 88,5  | 30,7      | 119,0 | 100,6     | 123,0 | 100,6     | 129,3 | 100,6 | 126,5 | 97,5                                                                                | 38  |
| 42                                                                                             | 25,1 | 81,0                                                                                      | 79,0 | 64,5                                                                                     | 23,7 | 92,5                                                                                       | 90,0 | 93,5     | 90,5 | 103,0    | 84,5  | 24,4      | 117,0 | 96,0      | 119,0 | 96,0      | 122,0 | 96,0  | 119,6 | 93,0                                                                                | 42  |
| 46                                                                                             | 20,4 | 79,3                                                                                      | 77,3 | 62,5                                                                                     | 19,0 | 90,5                                                                                       | 87,6 | 91,8     | 88,8 | 98,3     | 80,8  | 19,4      | 112,3 | 92,3      | 115,0 | 92,3      | 116,0 | 92,3  | 113,0 | 89,0                                                                                | 46  |
| 50                                                                                             | 16,2 | 77,6                                                                                      | 75,8 | 60,5                                                                                     | 14,8 | 88,1                                                                                       | 85,5 | 89,1     | 86,0 | 93,8     | 77,5  | 14,9      | 108,6 | 88,6      | 110,0 | 88,6      | 110,6 | 88,6  | 107,6 | 85,6                                                                                | 50  |
| 54                                                                                             | 12,4 | 76,0                                                                                      | 74,5 | 58,5                                                                                     | 11,1 | 85,5                                                                                       | 83,5 | 87,5     | 84,0 | 89,5     | 74,5  | 10,9      | 106,0 | 85,0      | 106,0 | 85,0      | 106,0 | 85,0  | 102,8 | 82,3                                                                                | 54  |
| 58                                                                                             | 9,0  | 74,3                                                                                      | 72,8 | 57,1                                                                                     | 7,7  | 82,8                                                                                       | 79,6 | 84,5     | 81,0 | 85,5     | 71,5  | 7,5       | 101,3 | 82,0      | 101,3 | 82,0      | 101,2 | 82,2  | 98,5  | 79,0                                                                                | 58  |
| 62                                                                                             | 5,7  | 71,5                                                                                      | 70,0 | 55,7                                                                                     | 4,5  | 80,5                                                                                       | 77,5 | 82,0     | 79,0 | 81,8     | 68,8  | 4,1       | 97,5  | 79,5      | 97,5  | 79,5      | 97,5  | 79,3  | 94,1  | 76,3                                                                                | 62  |
| 63                                                                                             | 4,9  | 71,0                                                                                      | 69,5 | 55,3                                                                                     | 3,7  | 79,8                                                                                       | 75,7 | 81,1     | 78,5 | 81,0     | 68,2  | -         | 96,5  | 78,8      | 96,5  | 78,8      | 96,5  | 78,7  | 93,3  | 75,6                                                                                | 63  |
| 64                                                                                             | 4,1  | 70,5                                                                                      | 69,0 | 55,0                                                                                     | -    | 79,2                                                                                       | 74,7 | 80,7     | 78,0 | 80,1     | 67,6  | -         | 95,5  | 78,2      | 95,5  | 78,2      | 95,5  | 78,1  | 92,5  | 75,0                                                                                | 64  |
| 66                                                                                             | -    | 69,5                                                                                      | 68,0 | 54,0                                                                                     | -    | 78,0                                                                                       | 73,5 | 80,0     | 77,0 | 78,5     | 66,5  | -         | 93,5  | 77,0      | 93,5  | 77,0      | 93,5  | 77,0  | 90,6  | 73,8                                                                                | 66  |
| 70                                                                                             | -    | 66,8                                                                                      | 65,0 | 53,0                                                                                     | -    | 74,6                                                                                       | 70,5 | 77,0     | 73,5 | 75,8     | 64,5  | -         | 90,1  | 74,6      | 90,1  | 74,6      | 89,1  | 74,6  | 87,0  | 71,5                                                                                | 70  |
| 74                                                                                             | -    | 64,3                                                                                      | 63,0 | 51,8                                                                                     | -    | 71,5                                                                                       | 68,3 | 74,5     | 70,6 | 73,1     | 62,5  | -         | 85,3  | 72,3      | 85,3  | 72,3      | 83,5  | 72,3  | 81,6  | 69,5                                                                                | 74  |
| 78                                                                                             | -    | 62,5                                                                                      | 61,0 | 50,5                                                                                     | -    | 69,5                                                                                       | 66,0 | 72,5     | 69,0 | 70,5     | 60,5  | -         | 79,0  | 70,0      | 79,0  | 70,0      | 76,5  | 70,0  | 75,6  | 67,5                                                                                | 78  |
| 82                                                                                             | -    | 60,8                                                                                      | 58,8 | 49,7                                                                                     | -    | 66,8                                                                                       | 63,5 | 67,5     | 66,6 | 64,9     | 58,8  | -         | 73,3  | 68,3      | 73,0  | 68,3      | 70,8  | 68,3  | 69,0  | 65,5                                                                                | 82  |
| 86                                                                                             | -    | 59,5                                                                                      | 57,3 | 48,9                                                                                     | -    | 63,1                                                                                       | 61,0 | 62,6     | 63,1 | 59,6     | 56,8  | -         | 68,0  | 66,0      | 67,6  | 66,0      | 65,3  | 65,7  | 63,3  | 64,0                                                                                | 86  |
| 90                                                                                             | -    | 58,5                                                                                      | 56,0 | 48,1                                                                                     | -    | 58,5                                                                                       | 58,0 | 58,0     | 58,5 | 55,0     | 54,5  | -         | 63,0  | 63,0      | 62,5  | 63,0      | 60,5  | 60,5  | 58,1  | 59,3                                                                                | 90  |
| 94                                                                                             | -    | 55,2                                                                                      | 54,8 | 47,3                                                                                     | -    | 54,5                                                                                       | 53,4 | 54,0     | 54,5 | 50,7     | 50,4  | -         | 58,3  | 58,3      | 58,1  | 58,3      | 55,8  | 55,8  | 53,5  | 54,0                                                                                | 94  |
| 98                                                                                             | -    | 51,6                                                                                      | 51,7 | 46,7                                                                                     | -    | 50,6                                                                                       | 48,6 | 50,2     | 50,6 | 46,8     | 46,4  | -         | 53,8  | 53,8      | 53,7  | 53,8      | 51,4  | 51,4  | 49,0  | 49,4                                                                                | 98  |
| 102                                                                                            | -    | 47,9                                                                                      | 48,1 | 46,1                                                                                     | -    | 46,9                                                                                       | 43,8 | 46,7     | 46,9 | 43,2     | 42,5  | -         | 49,4  | 49,6      | 49,3  | 49,4      | 47,1  | 47,1  | 45,0  | 45,4                                                                                | 102 |
| 106                                                                                            | -    | 44,6                                                                                      | 44,8 | 44,3                                                                                     | -    | 43,1                                                                                       | 38,9 | 43,4     | 43,6 | 39,9     | 39,0  | -         | 45,4  | 45,6      | 45,3  | 45,5      | 43,1  | 43,3  | 41,1  | 41,4                                                                                | 106 |
| 110                                                                                            | -    | 41,5                                                                                      | 41,7 | 26,8                                                                                     | -    | 38,7                                                                                       | 34,2 | 40,3     | 40,5 | 36,7     | 35,7  | -         | 41,8  | 42,1      | 41,6  | 41,9      | 39,4  | 39,6  | 37,5  | 37,8                                                                                | 110 |
| 114                                                                                            | -    | 38,7                                                                                      | 38,9 | -                                                                                        | -    | 33,6                                                                                       | 29,3 | 37,5     | 37,6 | 33,6     | 32,5  | -         | 38,5  | 38,8      | 38,3  | 38,7      | 36,1  | 36,5  | 34,2  | 34,4                                                                                | 114 |
| 118                                                                                            | -    | 36,1                                                                                      | 36,3 | -                                                                                        | -    | 28,4                                                                                       | 24,4 | 34,9     | 34,8 | 30,7     | 29,7  | -         | 35,5  | 36,0      | 35,4  | 35,9      | 33,2  | 33,8  | 31,1  | 31,2                                                                                | 118 |
| 122                                                                                            | -    | 33,7                                                                                      | 33,8 | -                                                                                        | -    | 23,3                                                                                       | 19,5 | 32,6     | 32,1 | 28,0     | 27,1  | -         | 32,9  | 33,5      | 32,8  | 33,4      | 30,6  | 31,3  | 28,2  | 28,4                                                                                | 122 |
| 123                                                                                            | -    | 33,2                                                                                      | 33,2 | -                                                                                        | -    | 22,0                                                                                       | 18,2 | 32,0     | 31,5 | 27,4     | 26,5  | -         | 32,3  | 33,0      | 32,2  | 32,9      | 30,0  | 30,8  | 27,5  | 27,7                                                                                | 123 |
| 124                                                                                            | -    | 32,6                                                                                      | 32,7 | -                                                                                        | -    | 20,7                                                                                       | -    | 31,5     | 30,9 | 26,8     | -     | -         | 31,7  | -         | 31,6  | -         | 29,4  | -     | 26,9  | -                                                                                   | 124 |
| 125                                                                                            | -    | 32,0                                                                                      | 14,5 | -                                                                                        | -    | 19,4                                                                                       | -    | 30,9     | -    | 26,2     | -     | -         | 31,1  | -         | 31,0  | -         | 28,9  | -     | 26,2  | -                                                                                   | 125 |
| 126                                                                                            | -    | 31,5                                                                                      | -    | -                                                                                        | -    | 18,2                                                                                       | -    | 30,4     | -    | 25,6     | -     | -         | 30,6  | -         | 30,5  | -         | 28,4  | -     | 25,6  | -                                                                                   | 126 |
| 128                                                                                            | -    | 30,5                                                                                      | -    | -                                                                                        | -    | 15,6                                                                                       | -    | 29,3     | -    | 24,5     | -     | -         | 29,6  | -         | 29,5  | -         | 27,4  | -     | 24,4  | -                                                                                   | 128 |

 0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

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| 165 t +  50 t |   |          |   |     |  11-21 m |      |          |  8,40 m |      |          |  9.8 m/s |          |       | 360°  |           |       | EN13000   |       |           |       |   |                                                                                     |  |
|------------------------------------------------------------------------------------------------|---|----------|---|-----|-------------------------------------------------------------------------------------------|------|----------|------------------------------------------------------------------------------------------|------|----------|--------------------------------------------------------------------------------------------|----------|-------|-------|-----------|-------|-----------|-------|-----------|-------|---|-------------------------------------------------------------------------------------|--|
|  135 m        |   |          |   |     |                                                                                           |      |          |                                                                                          |      |          |                                                                                            |          |       |       |           |       |           |       |           |       |   |                                                                                     |  |
| LSL+LF_2                                                                                       |   |          |   |     | LSL+LF_3                                                                                  |      |          | LSL+LF_4                                                                                 |      | LSL+LF_6 |                                                                                            | LSL+LF_8 |       |       | LSL+LF_10 |       | LSL+LF_12 |       | LSL+LF_14 |       |   |                                                                                     |  |
|  12 m         |   |          |   |     |                                                                                           |      |          |                                                                                          |      |          |                                                                                            |          |       |       |           |       |           |       |           |       |   |                                                                                     |  |
|  0 t          |   | 0 t-325t |   |     | 0 t                                                                                       |      | 0 t-325t |                                                                                          |      |          |                                                                                            |          | 0 t   |       | 0 t-325t  |       |           |       |           |       |   |                                                                                     |  |
|  15°          |   | 20°      |   | 30° |                                                                                           | 15°  |          | 20°                                                                                      |      | 15°      |                                                                                            | 20°      |       | 15°   |           | 20°   |           | 15°   |           | 20°   |   |  |  |
| m                                                                                              | t | t        | t | t   | t                                                                                         | t    | t        | t                                                                                        | t    | t        | t                                                                                          | t        | t     | t     | t         | t     | t         | t     | t         | t     | t | m                                                                                   |  |
| 18                                                                                             | - | -        | - | -   | -                                                                                         | -    | -        | 94,5                                                                                     | -    | 103,0    | -                                                                                          | 87,0     | 117,0 | -     | 122,0     | -     | 134,0     | -     | 148,0     | -     | - | 18                                                                                  |  |
| 19                                                                                             | - | -        | - | -   | 77,5                                                                                      | 93,5 | 92,5     | 94,5                                                                                     | 92,0 | 103,0    | 101,0                                                                                      | 82,2     | 117,0 | 114,0 | 122,0     | 119,0 | 134,0     | 129,0 | 148,0     | 127,0 | - | 19                                                                                  |  |
| 20                                                                                             | - | -        | - | -   | 73,5                                                                                      | 93,5 | 92,5     | 94,5                                                                                     | 92,0 | 103,0    | 101,0                                                                                      | 77,5     | 117,0 | 114,0 | 122,0     | 119,0 | 134,0     | 127,0 | 148,0     | 125,0 | - | 20                                                                                  |  |
| 22                                                                                             | - | -        | - | -   | 66,0                                                                                      | 93,5 | 92,0     | 94,2                                                                                     | 91,5 | 102,5    | 101,0                                                                                      | 69,7     | 117,0 | 114,0 | 122,0     | 119,0 | 134,0     | 124,0 | 148,0     | 121,0 | - | 22                                                                                  |  |
| 24                                                                                             | - | -        | - | -   | 58,5                                                                                      | 93,5 | 92,0     | 94,0                                                                                     | 91,5 | 102,0    | 101,0                                                                                      | 62,0     | 117,0 | 114,0 | 122,0     | 119,0 | 134,0     | 120,0 | 148,0     | 117,0 | - | 24                                                                                  |  |
| 26                                                                                             | - | -        | - | -   | 53,0                                                                                      | 93,0 | 91,5     | 93,7                                                                                     | 91,0 | 102,0    | 101,0                                                                                      | 55,9     | 116,5 | 114,0 | 121,5     | 117,0 | 133,5     | 117,0 | 148,0     | 114,0 | - | 26                                                                                  |  |
| 28                                                                                             | - | -        | - | -   | 47,5                                                                                      | 92,5 | 91,0     | 93,5                                                                                     | 90,5 | 102,0    | 101,0                                                                                      | 49,9     | 116,0 | 114,0 | 121,0     | 114,0 | 133,0     | 114,0 | 148,0     | 111,0 | - | 28                                                                                  |  |
| 30                                                                                             | - | -        | - | -   | 42,9                                                                                      | 92,0 | 90,5     | 93,0                                                                                     | 90,5 | 101,5    | 98,5                                                                                       | 45,0     | 116,0 | 111,0 | 121,0     | 111,0 | 133,0     | 111,0 | 144,0     | 108,0 | - | 30                                                                                  |  |
| 34                                                                                             | - | -        | - | -   | 34,7                                                                                      | 91,0 | 89,5     | 92,0                                                                                     | 89,5 | 100,5    | 93,8                                                                                       | 36,2     | 115,0 | 105,6 | 120,0     | 105,6 | 132,0     | 105,6 | 136,0     | 102,5 | - | 34                                                                                  |  |
| 38                                                                                             | - | -        | - | -   | 28,1                                                                                      | 90,1 | 88,5     | 91,1                                                                                     | 88,6 | 99,8     | 89,3                                                                                       | 29,1     | 113,3 | 101,0 | 118,0     | 101,0 | 129,3     | 101,0 | 128,0     | 98,0  | - | 38                                                                                  |  |
| 42                                                                                             | - | -        | - | -   | 22,2                                                                                      | 89,5 | 87,5     | 90,5                                                                                     | 88,0 | 99,5     | 85,0                                                                                       | 22,9     | 112,0 | 97,0  | 116,0     | 97,0  | 124,0     | 97,0  | 120,6     | 94,0  | - | 42                                                                                  |  |
| 46                                                                                             | - | -        | - | -   | 17,6                                                                                      | 87,8 | 86,1     | 89,1                                                                                     | 86,3 | 97,5     | 81,3                                                                                       | 17,9     | 107,6 | 93,0  | 112,0     | 93,0  | 118,0     | 93,0  | 114,0     | 90,0  | - | 46                                                                                  |  |
| 50                                                                                             | - | -        | - | -   | 13,4                                                                                      | 86,1 | 84,6     | 87,1                                                                                     | 84,1 | 94,5     | 78,0                                                                                       | 13,5     | 105,0 | 89,3  | 108,6     | 89,3  | 112,3     | 89,3  | 108,6     | 86,3  | - | 50                                                                                  |  |
| 54                                                                                             | - | -        | - | -   | 9,7                                                                                       | 84,5 | 83,0     | 85,5                                                                                     | 82,5 | 90,5     | 75,0                                                                                       | 9,5      | 103,0 | 86,0  | 106,0     | 86,0  | 107,0     | 86,0  | 103,8     | 83,0  | - | 54                                                                                  |  |
| 58                                                                                             | - | -        | - | -   | 6,5                                                                                       | 82,4 | 80,3     | 83,1                                                                                     | 80,1 | 86,5     | 72,3                                                                                       | 6,2      | 99,0  | 83,0  | 102,0     | 83,0  | 102,0     | 83,0  | 99,5      | 80,0  | - | 58                                                                                  |  |
| 61                                                                                             | - | -        | - | -   | 4,2                                                                                       | 80,4 | 77,8     | 81,5                                                                                     | 79,0 | 83,6     | 70,3                                                                                       | 3,8      | 96,8  | 80,8  | 99,0      | 80,8  | 99,0      | 80,8  | 96,5      | 77,8  | - | 61                                                                                  |  |
| 62                                                                                             | - | -        | - | -   | -                                                                                         | 79,8 | 77,1     | 80,6                                                                                     | 78,3 | 82,8     | 69,6                                                                                       | -        | 95,9  | 80,1  | 98,1      | 80,1  | 98,1      | 80,1  | 95,5      | 77,2  | - | 62                                                                                  |  |
| 66                                                                                             | - | -        | - | -   | -                                                                                         | 78,0 | 75,5     | 79,0                                                                                     | 76,5 | 79,5     | 67,0                                                                                       | -        | 93,5  | 77,5  | 94,5      | 77,5  | 94,5      | 77,5  | 91,6      | 74,6  | - | 66                                                                                  |  |
| 70                                                                                             | - | -        | - | -   | -                                                                                         | 74,3 | 72,0     | 76,8                                                                                     | 74,5 | 76,5     | 65,0                                                                                       | -        | 89,8  | 75,1  | 90,1      | 75,1  | 88,8      | 75,1  | 88,0      | 72,0  | - | 70                                                                                  |  |
| 74                                                                                             | - | -        | - | -   | -                                                                                         | 70,1 | 69,3     | 74,8                                                                                     | 72,3 | 73,1     | 63,0                                                                                       | -        | 84,6  | 73,0  | 84,6      | 73,0  | 82,5      | 73,0  | 80,6      | 70,0  | - | 74                                                                                  |  |
| 78                                                                                             | - | -        | - | -   | -                                                                                         | 65,5 | 67,5     | 72,5                                                                                     | 71,0 | 69,5     | 61,0                                                                                       | -        | 78,0  | 71,0  | 78,0      | 71,0  | 75,5      | 71,0  | 73,8      | 68,0  | - | 78                                                                                  |  |
| 82                                                                                             | - | -        | - | -   | -                                                                                         | 61,5 | 65,5     | 67,1                                                                                     | 66,6 | 63,6     | 59,5                                                                                       | -        | 72,3  | 69,0  | 72,0      | 69,0  | 69,9      | 69,0  | 67,5      | 66,0  | - | 82                                                                                  |  |
| 86                                                                                             | - | -        | - | -   | -                                                                                         | 57,5 | 62,2     | 62,0                                                                                     | 62,2 | 58,6     | 56,6                                                                                       | -        | 67,0  | 66,2  | 66,3      | 66,3  | 64,3      | 64,5  | 61,8      | 62,7  | - | 86                                                                                  |  |
| 90                                                                                             | - | -        | - | -   | -                                                                                         | 53,5 | 57,5     | 57,5                                                                                     | 57,5 | 54,0     | 53,0                                                                                       | -        | 62,0  | 62,0  | 61,5      | 61,5  | 59,0      | 59,5  | 56,5      | 57,3  | - | 90                                                                                  |  |
| 94                                                                                             | - | -        | - | -   | -                                                                                         | 49,5 | 53,5     | 53,1                                                                                     | 53,5 | 49,5     | 48,8                                                                                       | -        | 57,0  | 57,0  | 56,5      | 56,8  | 54,5      | 54,3  | 51,5      | 52,0  | - | 94                                                                                  |  |
| 98                                                                                             | - | -        | - | -   | -                                                                                         | 45,4 | 49,5     | 49,2                                                                                     | 49,6 | 45,7     | 44,8                                                                                       | -        | 52,2  | 52,2  | 52,0      | 52,2  | 49,8      | 49,8  | 47,4      | 47,8  | - | 98                                                                                  |  |
| 102                                                                                            | - | -        | - | -   | -                                                                                         | 41,2 | 45,7     | 45,7                                                                                     | 45,9 | 42,0     | 41,0                                                                                       | -        | 48,0  | 48,1  | 47,7      | 47,8  | 45,5      | 45,5  | 43,4      | 43,8  | - | 102                                                                                 |  |
| 106                                                                                            | - | -        | - | -   | -                                                                                         | 36,9 | 40,2     | 42,4                                                                                     | 42,6 | 38,5     | 37,5                                                                                       | -        | 44,0  | 44,2  | 43,7      | 43,9  | 41,5      | 41,6  | 39,6      | 39,9  | - | 106                                                                                 |  |
| 110                                                                                            | - | -        | - | -   | -                                                                                         | 32,7 | 34,7     | 39,3                                                                                     | 39,4 | 35,2     | 34,2                                                                                       | -        | 40,3  | 40,5  | 40,0      | 40,2  | 37,8      | 38,0  | 36,0      | 36,3  | - | 110                                                                                 |  |
| 114                                                                                            | - | -        | - | -   | -                                                                                         | 28,5 | 29,5     | 36,5                                                                                     | 36,3 | 32,1     | 31,1                                                                                       | -        | 37,0  | 37,2  | 36,7      | 37,0  | 34,4      | 34,7  | 32,7      | 32,8  | - | 114                                                                                 |  |
| 118                                                                                            | - | -        | - | -   | -                                                                                         | 24,3 | 24,2     | 33,9                                                                                     | 33,4 | 29,2     | 28,3                                                                                       | -        | 34,0  | 34,4  | 33,7      | 34,2  | 31,4      | 31,9  | 29,5      | 29,7  | - | 118                                                                                 |  |
| 122                                                                                            | - | -        | - | -   | -                                                                                         | 20,0 | 18,6     | 31,5                                                                                     | 30,7 | 26,6     | 25,7                                                                                       | -        | 31,3  | 31,8  | 31,0      | 31,6  | 28,8      | 29,3  | 26,7      | 26,8  | - | 122                                                                                 |  |
| 125                                                                                            | - | -        | - | -   | -                                                                                         | 16,9 | 14,6     | 29,8                                                                                     | 28,9 | 24,7     | 23,9                                                                                       | -        | 29,5  | 30,1  | 29,2      | 29,9  | 27,0      | 27,7  | 24,6      | 24,8  | - | 125                                                                                 |  |
| 126                                                                                            | - | -        | - | -   | -                                                                                         | 15,8 | -        | 29,3                                                                                     | 28,3 | 24,1     | 23,3                                                                                       | -        | 28,9  | 29,6  | 28,6      | 29,4  | 26,4      | 27,2  | 24,0      | 24,2  | - | 126                                                                                 |  |
| 130                                                                                            | - | -        | - | -   | -                                                                                         | 11,6 | -        | 27,3                                                                                     | -    | 21,9     | -                                                                                          | -        | 26,8  | -     | 26,6      | -     | 24,4      | -     | 21,5      | -     | - | 130                                                                                 |  |

# Operation

LSL+LF

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| 165 t +  50 t |      |  11-21 m |      |  8,40 m |      |  9.8 m/s |      | 360°     |      | EN13000     |      |           |       |             |       |           |       |       |       |       |     |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------|------|----------|------|-------------|------|-----------|-------|-------------|-------|-----------|-------|-------|-------|-------|-----|
| 138 m                                                                                          |      |                                                                                           |      |                                                                                          |      |                                                                                             |      |          |      |             |      |           |       |             |       |           |       |       |       |       |     |
| LSL+LF_2                                                                                       |      |                                                                                           |      | LSL+LF_3                                                                                 |      | LSL+LF_4                                                                                    |      | LSL+LF_6 |      | LSL+LF_8    |      | LSL+LF_10 |       | LSL+LF_12   |       | LSL+LF_14 |       |       |       |       |     |
| 12 m                                                                                           |      |                                                                                           |      |                                                                                          |      |                                                                                             |      |          |      |             |      |           |       |             |       |           |       |       |       |       |     |
| 0 t                                                                                            |      | 0 t - 325 t                                                                               |      | 0 t                                                                                      |      | 0 t - 325 t                                                                                 |      | 0 t      |      | 0 t - 325 t |      | 0 t       |       | 0 t - 325 t |       | 0 t       |       |       |       |       |     |
| 15°                                                                                            |      | 20°                                                                                       |      | 30°                                                                                      |      | 15°                                                                                         |      | 20°      |      | 15°         |      | 20°       |       | 15°         |       | 20°       |       | 15°   |       | 20°   |     |
| m                                                                                              | t    | t                                                                                         | t    | t                                                                                        | t    | t                                                                                           | t    | t        | t    | t           | t    | t         | t     | t           | t     | t         | t     | t     | t     | m     |     |
| 18                                                                                             | 73,0 | 75,0                                                                                      | -    | -                                                                                        | -    | -                                                                                           | -    | 89,0     | -    | 94,5        | -    | 85,0      | 111,0 | -           | 117,0 | -         | 126,0 | -     | 144,0 | -     | 18  |
| 19                                                                                             | 72,5 | 75,0                                                                                      | 73,5 | -                                                                                        | 78,0 | 81,5                                                                                        | 79,5 | 89,0     | 89,0 | 94,2        | 92,5 | 80,5      | 111,0 | 109,0       | 117,0 | 115,0     | 126,0 | 123,0 | 144,0 | 127,0 | 19  |
| 20                                                                                             | 72,5 | 75,0                                                                                      | 73,0 | -                                                                                        | 73,5 | 81,5                                                                                        | 79,5 | 89,0     | 89,0 | 94,0        | 92,5 | 76,0      | 111,0 | 109,0       | 117,0 | 115,0     | 126,0 | 123,0 | 144,0 | 125,0 | 20  |
| 21                                                                                             | 69,5 | 74,5                                                                                      | 72,7 | 68,0                                                                                     | 70,0 | 81,2                                                                                        | 79,2 | 89,0     | 89,0 | 94,0        | 92,5 | 72,1      | 110,7 | 109,0       | 117,0 | 115,0     | 126,0 | 123,0 | 144,0 | 123,0 | 21  |
| 22                                                                                             | 67,0 | 74,0                                                                                      | 72,5 | 67,5                                                                                     | 66,5 | 81,0                                                                                        | 79,0 | 89,0     | 89,0 | 94,0        | 92,5 | 68,2      | 110,5 | 109,0       | 117,0 | 115,0     | 126,0 | 123,0 | 144,0 | 121,0 | 22  |
| 24                                                                                             | 60,0 | 73,5                                                                                      | 72,0 | 67,5                                                                                     | 59,5 | 80,5                                                                                        | 78,5 | 89,0     | 89,0 | 94,0        | 92,0 | 60,5      | 110,0 | 109,0       | 117,0 | 115,0     | 126,0 | 121,0 | 144,0 | 118,0 | 24  |
| 26                                                                                             | 54,5 | 73,5                                                                                      | 71,5 | 67,0                                                                                     | 53,9 | 80,0                                                                                        | 78,0 | 89,0     | 89,0 | 93,5        | 92,0 | 54,5      | 109,5 | 108,0       | 116,5 | 115,0     | 125,5 | 118,0 | 144,0 | 115,0 | 26  |
| 28                                                                                             | 49,1 | 73,0                                                                                      | 71,5 | 67,0                                                                                     | 48,3 | 79,5                                                                                        | 77,5 | 89,0     | 89,0 | 93,0        | 91,5 | 48,6      | 109,0 | 108,0       | 116,0 | 114,0     | 125,0 | 115,0 | 144,0 | 112,0 | 28  |
| 30                                                                                             | 44,4 | 72,5                                                                                      | 71,0 | 66,5                                                                                     | 43,8 | 78,7                                                                                        | 77,0 | 89,0     | 89,0 | 92,5        | 91,5 | 43,8      | 108,5 | 107,0       | 116,0 | 112,0     | 125,0 | 112,0 | 142,5 | 109,0 | 30  |
| 34                                                                                             | 36,6 | 71,1                                                                                      | 69,6 | 65,8                                                                                     | 35,7 | 77,5                                                                                        | 76,0 | 89,0     | 88,6 | 91,5        | 90,1 | 35,1      | 107,5 | 105,0       | 115,0 | 106,6     | 124,5 | 106,6 | 137,0 | 103,5 | 34  |
| 38                                                                                             | 29,8 | 69,8                                                                                      | 68,5 | 65,0                                                                                     | 29,2 | 76,5                                                                                        | 74,8 | 89,0     | 88,1 | 90,5        | 88,1 | 28,0      | 106,3 | 101,8       | 113,3 | 101,8     | 123,0 | 101,8 | 129,0 | 98,7  | 38  |
| 42                                                                                             | 24,0 | 69,0                                                                                      | 67,5 | 64,0                                                                                     | 23,4 | 75,5                                                                                        | 73,5 | 89,0     | 87,5 | 89,5        | 85,5 | 21,8      | 105,0 | 97,5        | 112,0 | 97,5      | 121,0 | 97,5  | 122,0 | 94,5  | 42  |
| 46                                                                                             | 19,3 | 67,6                                                                                      | 66,1 | 62,6                                                                                     | 18,8 | 73,8                                                                                        | 72,1 | 87,6     | 85,8 | 87,8        | 81,8 | 16,9      | 103,0 | 93,5        | 108,6 | 93,5      | 115,6 | 93,5  | 116,0 | 90,5  | 46  |
| 50                                                                                             | 15,1 | 66,1                                                                                      | 64,8 | 61,1                                                                                     | 14,6 | 72,1                                                                                        | 70,6 | 85,8     | 84,3 | 86,0        | 78,5 | 12,5      | 101,0 | 89,8        | 104,6 | 89,8      | 111,3 | 89,8  | 110,0 | 86,8  | 50  |
| 54                                                                                             | 11,5 | 64,5                                                                                      | 63,5 | 59,5                                                                                     | 11,0 | 70,5                                                                                        | 69,0 | 84,0     | 83,0 | 84,0        | 75,5 | 8,6       | 99,0  | 86,5        | 102,0 | 86,5      | 108,0 | 86,5  | 104,6 | 83,5  | 54  |
| 58                                                                                             | 8,2  | 63,1                                                                                      | 62,1 | 57,8                                                                                     | 7,8  | 69,1                                                                                        | 67,6 | 82,5     | 80,4 | 81,5        | 72,8 | 5,3       | 97,0  | 83,7        | 100,0 | 83,7      | 103,0 | 83,5  | 100,0 | 80,5  | 58  |
| 60                                                                                             | 6,6  | 62,5                                                                                      | 61,5 | 57,0                                                                                     | 6,3  | 68,5                                                                                        | 67,0 | 81,0     | 80,0 | 80,5        | 71,5 | 3,7       | 96,0  | 82,0        | 99,0  | 82,0      | 101,0 | 82,0  | 98,1  | 79,3  | 60  |
| 62                                                                                             | 5,0  | 61,7                                                                                      | 61,0 | 56,3                                                                                     | 4,7  | 66,6                                                                                        | 65,7 | 79,5     | 77,1 | 79,0        | 70,3 | -         | 95,0  | 80,8        | 96,5  | 80,6      | 99,1  | 80,6  | 96,3  | 77,9  | 62  |
| 63                                                                                             | 4,2  | 61,4                                                                                      | 60,6 | 56,0                                                                                     | 3,9  | 66,2                                                                                        | 65,1 | 78,7     | 76,7 | 78,5        | 69,7 | -         | 94,5  | 80,1        | 96,0  | 80,0      | 98,2  | 80,0  | 95,4  | 77,2  | 63  |
| 66                                                                                             | -    | 60,5                                                                                      | 59,5 | 54,5                                                                                     | -    | 65,0                                                                                        | 64,0 | 77,5     | 75,5 | 77,0        | 68,0 | -         | 93,0  | 78,0        | 94,5  | 78,0      | 95,5  | 78,0  | 91,8  | 75,3  | 66  |
| 70                                                                                             | -    | 58,1                                                                                      | 57,1 | 53,5                                                                                     | -    | 62,8                                                                                        | 62,3 | 75,1     | 72,5 | 74,5        | 65,6 | -         | 88,3  | 75,6        | 89,1  | 75,6      | 89,5  | 75,6  | 86,5  | 73,0  | 70  |
| 74                                                                                             | -    | 56,1                                                                                      | 55,5 | 52,3                                                                                     | -    | 61,3                                                                                        | 60,1 | 73,1     | 69,6 | 72,5        | 63,6 | -         | 83,0  | 73,5        | 83,3  | 73,5      | 83,0  | 73,5  | 79,5  | 70,6  | 74  |
| 78                                                                                             | -    | 54,5                                                                                      | 53,5 | 51,0                                                                                     | -    | 60,0                                                                                        | 58,5 | 71,5     | 68,0 | 70,5        | 62,0 | -         | 77,0  | 71,5        | 77,0  | 71,5      | 76,0  | 71,5  | 72,8  | 68,6  | 78  |
| 82                                                                                             | -    | 53,1                                                                                      | 52,1 | 50,1                                                                                     | -    | 57,6                                                                                        | 56,6 | 66,1     | 65,3 | 65,5        | 60,0 | -         | 71,3  | 69,5        | 71,3  | 69,5      | 70,3  | 69,1  | 66,5  | 67,0  | 82  |
| 86                                                                                             | -    | 51,2                                                                                      | 50,6 | 49,2                                                                                     | -    | 56,3                                                                                        | 55,2 | 61,5     | 61,6 | 60,5        | 58,4 | -         | 65,5  | 65,8        | 66,0  | 66,0      | 64,8  | 65,3  | 60,8  | 61,8  | 86  |
| 90                                                                                             | -    | 50,0                                                                                      | 49,8 | 47,8                                                                                     | -    | 54,5                                                                                        | 53,5 | 56,5     | 57,0 | 55,5        | 56,0 | -         | 60,5  | 60,5        | 60,5  | 61,0      | 59,5  | 60,0  | 55,5  | 56,2  | 90  |
| 94                                                                                             | -    | 49,0                                                                                      | 48,4 | 47,0                                                                                     | -    | 53,1                                                                                        | 51,1 | 52,5     | 52,6 | 51,4        | 51,7 | -         | 55,8  | 55,8        | 55,8  | 56,0      | 55,1  | 55,3  | 50,5  | 51,0  | 94  |
| 98                                                                                             | -    | 48,1                                                                                      | 47,6 | 46,1                                                                                     | -    | 50,6                                                                                        | 47,9 | 48,5     | 48,7 | 47,5        | 47,6 | -         | 51,1  | 51,1        | 51,0  | 51,0      | 50,8  | 50,8  | 46,5  | 47,0  | 98  |
| 102                                                                                            | -    | 47,2                                                                                      | 46,8 | 45,6                                                                                     | -    | 46,9                                                                                        | 44,6 | 44,9     | 45,1 | 43,9        | 43,9 | -         | 47,0  | 47,1        | 46,9  | 47,0      | 46,4  | 46,5  | 42,7  | 43,0  | 102 |
| 106                                                                                            | -    | 43,9                                                                                      | 43,9 | 43,7                                                                                     | -    | 43,0                                                                                        | 41,2 | 41,6     | 41,8 | 40,6        | 40,4 | -         | 43,0  | 43,2        | 42,9  | 43,1      | 42,4  | 42,5  | 38,9  | 39,2  | 106 |
| 110                                                                                            | -    | 40,8                                                                                      | 41,0 | 41,3                                                                                     | -    | 39,2                                                                                        | 37,9 | 38,5     | 38,7 | 37,5        | 37,1 | -         | 39,3  | 39,5        | 39,2  | 39,4      | 38,6  | 38,9  | 35,4  | 35,6  | 110 |
| 114                                                                                            | -    | 38,0                                                                                      | 38,1 | 33,5                                                                                     | -    | 35,4                                                                                        | 34,5 | 35,7     | 35,9 | 34,7        | 34,0 | -         | 36,0  | 36,3        | 35,8  | 36,1      | 35,2  | 35,5  | 32,1  | 32,2  | 114 |
| 118                                                                                            | -    | 35,3                                                                                      | 35,5 | -                                                                                        | -    | 31,5                                                                                        | 31,1 | 33,1     | 33,3 | 32,0        | 31,2 | -         | 33,0  | 33,3        | 32,8  | 33,2      | 32,2  | 32,6  | 29,0  | 29,1  | 118 |
| 122                                                                                            | -    | 32,9                                                                                      | 33,1 | -                                                                                        | -    | 27,6                                                                                        | 27,8 | 30,7     | 30,8 | 29,4        | 28,5 | -         | 30,2  | 30,7        | 29,9  | 30,5      | 29,4  | 29,9  | 26,1  | 26,3  | 122 |
| 126                                                                                            | -    | 30,7                                                                                      | 30,8 | -                                                                                        | -    | 24,1                                                                                        | 24,5 | 28,5     | 28,6 | 26,9        | 26,0 | -         | 27,7  | 28,4        | 27,5  | 28,2      | 27,0  | 27,6  | 23,4  | 23,6  | 126 |
| 128                                                                                            | -    | 29,7                                                                                      | 29,8 | -                                                                                        | -    | 22,1                                                                                        | 22,8 | 27,4     | 27,5 | 25,7        | 24,9 | -         | 26,6  | 27,3        | 26,4  | 27,2      | 25,9  | 26,6  | 22,2  | 22,3  | 128 |
| 130                                                                                            | -    | 28,7                                                                                      | 11,8 | -                                                                                        | -    | 20,1                                                                                        | -    | 26,4     | 22,3 | 24,6        | -    | -         | 25,6  | -           | 25,4  | -         | 24,9  | -     | 21,0  | -     | 130 |
| 133                                                                                            | -    | 27,2                                                                                      | -    | -                                                                                        | -    | 17,3                                                                                        | -    | 25,0     | -    | 23,0        | -    | -         | 24,1  | -           | 24,0  | -         | 23,5  | -     | 19,3  | -     | 133 |

 0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t



# Operation

LSL+LF

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| 165 t +  50 t |   |          |   |  11-21 m |      |          |      |  8,40 m |      |          |      |  9.8 m/s |       |           |       | 360°      |       | EN13000 |       |       |     |
|------------------------------------------------------------------------------------------------|---|----------|---|-------------------------------------------------------------------------------------------|------|----------|------|------------------------------------------------------------------------------------------|------|----------|------|--------------------------------------------------------------------------------------------|-------|-----------|-------|-----------|-------|---------|-------|-------|-----|
| 141 m                                                                                          |   |          |   |                                                                                           |      |          |      |                                                                                          |      |          |      |                                                                                            |       |           |       |           |       |         |       |       |     |
| LSL+LF_2                                                                                       |   |          |   | LSL+LF_3                                                                                  |      | LSL+LF_4 |      | LSL+LF_6                                                                                 |      | LSL+LF_8 |      | LSL+LF_10                                                                                  |       | LSL+LF_12 |       | LSL+LF_14 |       |         |       |       |     |
| 12 m                                                                                           |   |          |   |                                                                                           |      |          |      |                                                                                          |      |          |      |                                                                                            |       |           |       |           |       |         |       |       |     |
| 0 t                                                                                            |   | 0 t-325t |   | 0 t                                                                                       |      | 0 t-325t |      |                                                                                          |      | 0 t      |      | 0 t-325t                                                                                   |       |           |       |           |       |         |       |       |     |
| 15°                                                                                            |   | 20°      |   | 30°                                                                                       |      | 15°      |      | 20°                                                                                      |      | 15°      |      | 20°                                                                                        |       | 15°       |       | 20°       |       | 15°     |       | 20°   |     |
| m                                                                                              | t | t        | t | t                                                                                         | t    | t        | t    | t                                                                                        | t    | t        | t    | t                                                                                          | t     | t         | t     | t         | t     | t       | t     | m     |     |
| 18                                                                                             | - | -        | - | -                                                                                         | -    | -        | -    | 89,0                                                                                     | -    | 90,0     | -    | 83,0                                                                                       | 106,0 | -         | 110,0 | -         | 120,0 | -       | 138,0 | -     | 18  |
| 19                                                                                             | - | -        | - | -                                                                                         | 75,5 | 78,0     | 76,5 | 89,0                                                                                     | 88,0 | 90,0     | 88,5 | 78,2                                                                                       | 106,0 | -         | 110,0 | -         | 120,0 | -       | 138,0 | -     | 19  |
| 20                                                                                             | - | -        | - | -                                                                                         | 71,5 | 78,0     | 76,5 | 89,0                                                                                     | 88,0 | 90,0     | 88,5 | 73,5                                                                                       | 106,0 | 104,0     | 110,0 | 109,0     | 120,0 | 118,0   | 138,0 | 125,0 | 20  |
| 22                                                                                             | - | -        | - | -                                                                                         | 64,5 | 77,5     | 76,0 | 88,7                                                                                     | 87,5 | 89,7     | 88,0 | 66,0                                                                                       | 105,5 | 104,0     | 109,5 | 108,0     | 120,0 | 118,0   | 138,0 | 122,0 | 22  |
| 24                                                                                             | - | -        | - | -                                                                                         | 57,5 | 77,0     | 75,5 | 88,5                                                                                     | 87,5 | 89,5     | 88,0 | 58,5                                                                                       | 105,0 | 104,0     | 109,0 | 108,0     | 120,0 | 118,0   | 138,0 | 118,0 | 24  |
| 26                                                                                             | - | -        | - | -                                                                                         | 52,1 | 76,7     | 75,0 | 88,5                                                                                     | 87,0 | 89,0     | 87,5 | 52,7                                                                                       | 104,5 | 103,0     | 108,5 | 108,0     | 120,0 | 118,0   | 138,0 | 115,0 | 26  |
| 28                                                                                             | - | -        | - | -                                                                                         | 46,7 | 76,5     | 75,0 | 88,5                                                                                     | 87,0 | 88,5     | 87,5 | 46,9                                                                                       | 104,0 | 103,0     | 108,0 | 107,0     | 120,0 | 115,0   | 138,0 | 112,0 | 28  |
| 30                                                                                             | - | -        | - | -                                                                                         | 42,3 | 76,0     | 74,5 | 88,0                                                                                     | 86,5 | 88,2     | 87,5 | 42,1                                                                                       | 104,0 | 103,0     | 107,5 | 107,0     | 119,5 | 112,0   | 137,0 | 109,5 | 30  |
| 34                                                                                             | - | -        | - | -                                                                                         | 34,3 | 75,0     | 73,5 | 87,2                                                                                     | 85,8 | 87,5     | 86,5 | 33,5                                                                                       | 103,5 | 101,6     | 106,5 | 105,0     | 118,5 | 106,6   | 135,0 | 104,0 | 34  |
| 38                                                                                             | - | -        | - | -                                                                                         | 27,8 | 73,8     | 72,5 | 86,6                                                                                     | 85,1 | 86,5     | 85,5 | 26,6                                                                                       | 102,3 | 100,0     | 105,3 | 102,0     | 117,0 | 102,0   | 130,0 | 99,0  | 38  |
| 42                                                                                             | - | -        | - | -                                                                                         | 22,0 | 73,0     | 71,5 | 86,0                                                                                     | 84,5 | 85,5     | 84,5 | 20,4                                                                                       | 101,0 | 98,0      | 104,0 | 98,0      | 115,0 | 98,0    | 123,0 | 95,0  | 42  |
| 46                                                                                             | - | -        | - | -                                                                                         | 17,4 | 71,6     | 70,1 | 84,6                                                                                     | 83,1 | 84,1     | 82,1 | 15,5                                                                                       | 99,0  | 94,3      | 102,0 | 94,3      | 110,6 | 94,3    | 117,0 | 91,0  | 46  |
| 50                                                                                             | - | -        | - | -                                                                                         | 13,3 | 70,3     | 69,0 | 83,5                                                                                     | 82,0 | 82,8     | 79,3 | 11,1                                                                                       | 97,0  | 90,6      | 100,1 | 90,6      | 106,6 | 90,6    | 111,0 | 87,6  | 50  |
| 54                                                                                             | - | -        | - | -                                                                                         | 9,7  | 69,0     | 68,0 | 82,5                                                                                     | 81,0 | 81,5     | 76,0 | 7,2                                                                                        | 95,0  | 87,0      | 98,5  | 87,0      | 104,0 | 87,0    | 105,6 | 84,3  | 54  |
| 58                                                                                             | - | -        | - | -                                                                                         | 6,7  | 67,8     | 66,8 | 80,0                                                                                     | 79,1 | 79,8     | 73,5 | 3,9                                                                                        | 93,5  | 84,2      | 97,0  | 84,1      | 100,6 | 84,1    | 101,0 | 81,0  | 58  |
| 62                                                                                             | - | -        | - | -                                                                                         | 3,6  | 65,8     | 64,8 | 77,8                                                                                     | 77,3 | 77,6     | 70,8 | -                                                                                          | 91,1  | 81,1      | 95,0  | 81,1      | 97,0  | 81,1    | 97,3  | 78,3  | 62  |
| 66                                                                                             | - | -        | - | -                                                                                         | -    | 64,5     | 63,5 | 76,5                                                                                     | 76,0 | 76,0     | 68,5 | -                                                                                          | 89,5  | 78,5      | 93,0  | 78,5      | 94,0  | 78,5    | 91,6  | 75,8  | 66  |
| 70                                                                                             | - | -        | - | -                                                                                         | -    | 62,6     | 61,5 | 74,1                                                                                     | 73,3 | 73,6     | 66,1 | -                                                                                          | 85,8  | 76,1      | 87,0  | 76,1      | 87,6  | 76,1    | 84,0  | 73,5  | 70  |
| 74                                                                                             | - | -        | - | -                                                                                         | -    | 61,0     | 60,0 | 72,6                                                                                     | 70,6 | 71,6     | 64,1 | -                                                                                          | 81,0  | 74,0      | 81,0  | 74,0      | 81,3  | 74,0    | 77,3  | 71,1  | 74  |
| 78                                                                                             | - | -        | - | -                                                                                         | -    | 59,0     | 59,0 | 71,0                                                                                     | 69,0 | 69,0     | 62,5 | -                                                                                          | 75,0  | 72,0      | 75,0  | 72,0      | 75,0  | 72,0    | 70,6  | 69,0  | 78  |
| 82                                                                                             | - | -        | - | -                                                                                         | -    | 58,0     | 57,0 | 65,6                                                                                     | 65,0 | 64,2     | 60,5 | -                                                                                          | 69,3  | 68,6      | 69,3  | 68,6      | 69,0  | 69,5    | 64,5  | 65,0  | 82  |
| 86                                                                                             | - | -        | - | -                                                                                         | -    | 56,2     | 56,0 | 60,3                                                                                     | 60,8 | 59,5     | 58,1 | -                                                                                          | 64,0  | 64,2      | 63,8  | 64,3      | 63,8  | 63,8    | 58,9  | 59,3  | 86  |
| 90                                                                                             | - | -        | - | -                                                                                         | -    | 55,0     | 54,0 | 55,5                                                                                     | 56,0 | 54,5     | 54,5 | -                                                                                          | 59,0  | 59,0      | 58,5  | 59,0      | 58,5  | 58,5    | 53,6  | 54,1  | 90  |
| 94                                                                                             | - | -        | - | -                                                                                         | -    | 52,6     | 51,6 | 51,5                                                                                     | 51,8 | 50,0     | 50,2 | -                                                                                          | 54,0  | 54,3      | 53,8  | 54,0      | 53,3  | 53,5    | 49,0  | 49,5  | 94  |
| 98                                                                                             | - | -        | - | -                                                                                         | -    | 49,6     | 48,5 | 47,5                                                                                     | 47,8 | 46,4     | 46,1 | -                                                                                          | 49,5  | 49,9      | 49,4  | 49,4      | 48,9  | 49,3    | 44,6  | 45,2  | 98  |
| 102                                                                                            | - | -        | - | -                                                                                         | -    | 45,9     | 44,5 | 43,9                                                                                     | 44,2 | 42,8     | 42,4 | -                                                                                          | 45,5  | 45,6      | 45,3  | 45,4      | 44,8  | 44,9    | 40,8  | 41,1  | 102 |
| 106                                                                                            | - | -        | - | -                                                                                         | -    | 42,6     | 40,4 | 40,6                                                                                     | 40,8 | 39,4     | 38,9 | -                                                                                          | 41,5  | 41,7      | 41,3  | 41,4      | 40,8  | 40,9    | 37,0  | 37,3  | 106 |
| 110                                                                                            | - | -        | - | -                                                                                         | -    | 39,0     | 36,3 | 37,5                                                                                     | 37,7 | 36,4     | 35,7 | -                                                                                          | 37,9  | 38,2      | 37,7  | 37,9      | 37,1  | 37,3    | 33,6  | 33,8  | 110 |
| 114                                                                                            | - | -        | - | -                                                                                         | -    | 35,0     | 32,2 | 34,7                                                                                     | 34,9 | 33,5     | 32,6 | -                                                                                          | 34,5  | 34,8      | 34,3  | 34,5      | 33,7  | 33,9    | 30,3  | 30,5  | 114 |
| 118                                                                                            | - | -        | - | -                                                                                         | -    | 30,6     | 28,3 | 32,1                                                                                     | 32,3 | 30,7     | 29,7 | -                                                                                          | 31,5  | 31,8      | 31,1  | 31,5      | 30,6  | 30,8    | 27,2  | 27,3  | 118 |
| 122                                                                                            | - | -        | - | -                                                                                         | -    | 26,2     | 24,4 | 29,7                                                                                     | 29,8 | 27,9     | 27,0 | -                                                                                          | 28,7  | 29,1      | 28,4  | 28,8      | 27,8  | 28,2    | 24,3  | 24,4  | 122 |
| 126                                                                                            | - | -        | - | -                                                                                         | -    | 22,2     | 20,5 | 27,5                                                                                     | 27,6 | 25,5     | 24,6 | -                                                                                          | 26,1  | 26,6      | 25,8  | 26,4      | 25,2  | 25,8    | 21,6  | 21,7  | 126 |
| 130                                                                                            | - | -        | - | -                                                                                         | -    | 17,8     | 16,3 | 25,4                                                                                     | 25,5 | 23,2     | 22,3 | -                                                                                          | 23,9  | 24,6      | 23,6  | 24,3      | 23,0  | 23,8    | 19,1  | 19,3  | 130 |
| 131                                                                                            | - | -        | - | -                                                                                         | -    | 16,7     | -    | 24,9                                                                                     | 25,0 | 22,6     | 21,8 | -                                                                                          | 23,3  | 24,1      | 23,1  | 23,8      | 22,5  | 23,3    | 18,5  | 18,7  | 131 |
| 132                                                                                            | - | -        | - | -                                                                                         | -    | 15,9     | -    | 24,4                                                                                     | 24,5 | 22,1     | -    | -                                                                                          | 22,8  | -         | 22,6  | -         | 22,0  | -       | 17,9  | -     | 132 |
| 134                                                                                            | - | -        | - | -                                                                                         | -    | 13,7     | -    | 23,4                                                                                     | -    | 21,0     | -    | -                                                                                          | 21,8  | -         | 21,6  | -         | 21,0  | -       | 16,8  | -     | 134 |
| 135                                                                                            | - | -        | - | -                                                                                         | -    | 12,8     | -    | 23,0                                                                                     | -    | 20,5     | -    | -                                                                                          | 21,4  | -         | 21,2  | -         | 20,6  | -       | 16,3  | -     | 135 |

# Operation

LSL+LF

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| 165 t +  50 t |      |  11-21 m |      |  8,40 m |      |  9.8 m/s |      | 360°     |      | EN13000  |      |           |       |           |       |           |       |                                                                                         |       |       |     |
|------------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------|------|----------|------|----------|------|-----------|-------|-----------|-------|-----------|-------|-----------------------------------------------------------------------------------------|-------|-------|-----|
| 144 m                                                                                          |      |                                                                                           |      |                                                                                          |      |                                                                                             |      |          |      |          |      |           |       |           |       |           |       |                                                                                         |       |       |     |
| LSL+LF_2                                                                                       |      |                                                                                           |      | LSL+LF_3                                                                                 |      | LSL+LF_4                                                                                    |      | LSL+LF_6 |      | LSL+LF_8 |      | LSL+LF_10 |       | LSL+LF_12 |       | LSL+LF_14 |       |                                                                                         |       |       |     |
| 12 m                                                                                           |      |                                                                                           |      |                                                                                          |      |                                                                                             |      |          |      |          |      |           |       |           |       |           |       |                                                                                         |       |       |     |
| 0 t                                                                                            |      | 0 t-325t                                                                                  |      | 0 t                                                                                      |      | 0 t-325t                                                                                    |      | 0 t      |      | 0 t-325t |      |           |       |           |       |           |       |                                                                                         |       |       |     |
|  15°          |      | 20°                                                                                       |      | 30°                                                                                      |      | 15°                                                                                         |      | 20°      |      | 15°      |      | 20°       |       | 15°       |       | 20°       |       |  15° |       |       |     |
| m                                                                                              | t    | t                                                                                         | t    | t                                                                                        | t    | t                                                                                           | t    | t        | t    | t        | t    | t         | t     | t         | t     | t         | t     | t                                                                                       | t     | m     |     |
| 19                                                                                             | 63,0 | 65,0                                                                                      | 63,5 | -                                                                                        | -    | -                                                                                           | 73,5 | 85,0     | -    | -        | -    | 76,5      | 100,0 | -         | 105,0 | -         | 114,0 | -                                                                                       | 132,0 | -     | 19  |
| 20                                                                                             | 63,0 | 65,0                                                                                      | 63,5 | -                                                                                        | 70,0 | 75,0                                                                                        | 73,5 | 85,0     | 83,5 | 88,0     | 86,0 | 72,0      | 100,0 | 99,0      | 105,0 | 103,0     | 114,0 | 112,0                                                                                   | 132,0 | 126,0 | 20  |
| 21                                                                                             | 62,5 | 64,7                                                                                      | 63,2 | 59,5                                                                                     | 66,5 | 74,7                                                                                        | 73,2 | 84,8     | 83,5 | 88,0     | 86,0 | 68,2      | 100,0 | 98,7      | 104,7 | 103,0     | 114,0 | 112,0                                                                                   | 132,0 | 124,0 | 21  |
| 22                                                                                             | 62,5 | 64,5                                                                                      | 63,0 | 59,5                                                                                     | 63,0 | 74,5                                                                                        | 73,0 | 84,7     | 83,5 | 88,0     | 86,0 | 64,5      | 100,0 | 98,5      | 104,5 | 103,0     | 114,0 | 112,0                                                                                   | 132,0 | 122,0 | 22  |
| 24                                                                                             | 58,0 | 64,0                                                                                      | 62,5 | 59,0                                                                                     | 56,0 | 74,0                                                                                        | 72,5 | 84,5     | 83,0 | 88,0     | 86,0 | 57,0      | 100,0 | 98,5      | 104,0 | 103,0     | 114,0 | 112,0                                                                                   | 132,0 | 119,0 | 24  |
| 26                                                                                             | 52,0 | 63,5                                                                                      | 62,0 | 59,0                                                                                     | 50,7 | 73,7                                                                                        | 72,0 | 84,5     | 83,0 | 87,7     | 85,5 | 51,2      | 99,7  | 98,5      | 103,5 | 102,0     | 114,0 | 112,0                                                                                   | 132,0 | 116,0 | 26  |
| 28                                                                                             | 47,0 | 63,0                                                                                      | 61,5 | 58,5                                                                                     | 45,4 | 73,5                                                                                        | 71,5 | 84,5     | 82,5 | 87,5     | 85,5 | 45,5      | 99,5  | 98,0      | 103,0 | 102,0     | 114,0 | 112,0                                                                                   | 132,0 | 113,0 | 28  |
| 30                                                                                             | 42,3 | 62,5                                                                                      | 61,0 | 58,0                                                                                     | 41,0 | 72,7                                                                                        | 71,0 | 84,0     | 82,5 | 87,2     | 85,0 | 40,8      | 99,2  | 98,0      | 103,0 | 102,0     | 113,5 | 112,0                                                                                   | 131,5 | 110,0 | 30  |
| 34                                                                                             | 34,7 | 61,1                                                                                      | 60,0 | 57,0                                                                                     | 33,1 | 71,5                                                                                        | 70,0 | 83,0     | 81,5 | 86,5     | 84,3 | 32,3      | 98,5  | 97,6      | 102,5 | 101,3     | 112,5 | 107,3                                                                                   | 130,0 | 104,5 | 34  |
| 38                                                                                             | 28,0 | 60,0                                                                                      | 58,8 | 56,1                                                                                     | 26,7 | 70,5                                                                                        | 69,0 | 82,1     | 80,6 | 85,5     | 83,6 | 25,4      | 97,5  | 96,8      | 101,3 | 100,1     | 111,3 | 102,8                                                                                   | 128,5 | 100,0 | 38  |
| 42                                                                                             | 22,3 | 59,0                                                                                      | 57,5 | 55,5                                                                                     | 21,0 | 69,5                                                                                        | 68,0 | 81,5     | 80,0 | 84,5     | 83,0 | 19,3      | 96,5  | 95,5      | 100,0 | 98,5      | 110,0 | 98,5                                                                                    | 124,0 | 95,8  | 42  |
| 46                                                                                             | 17,7 | 57,6                                                                                      | 56,5 | 54,1                                                                                     | 16,4 | 67,8                                                                                        | 66,3 | 80,1     | 78,6 | 83,5     | 81,6 | 14,5      | 94,8  | 93,5      | 98,3  | 94,8      | 105,3 | 94,8                                                                                    | 118,0 | 91,5  | 46  |
| 50                                                                                             | 13,6 | 56,3                                                                                      | 55,3 | 53,0                                                                                     | 12,3 | 66,3                                                                                        | 64,8 | 78,8     | 77,3 | 82,0     | 79,5 | 10,1      | 93,0  | 91,0      | 96,3  | 91,3      | 102,4 | 91,3                                                                                    | 112,6 | 88,1  | 50  |
| 54                                                                                             | 10,0 | 55,0                                                                                      | 54,0 | 52,0                                                                                     | 8,7  | 65,0                                                                                        | 63,5 | 77,5     | 76,0 | 80,0     | 76,5 | 6,2       | 91,0  | 88,0      | 94,0  | 88,0      | 99,5  | 88,0                                                                                    | 107,5 | 84,9  | 54  |
| 57                                                                                             | 7,7  | 54,1                                                                                      | 53,0 | 51,2                                                                                     | 6,5  | 64,0                                                                                        | 62,3 | 75,9     | 74,1 | 78,9     | 74,7 | 3,7       | 89,6  | 85,7      | 92,6  | 85,7      | 97,5  | 85,7                                                                                    | 103,5 | 82,5  | 57  |
| 58                                                                                             | 6,9  | 53,8                                                                                      | 52,6 | 51,0                                                                                     | 5,7  | 63,5                                                                                        | 62,0 | 75,6     | 73,7 | 78,6     | 74,0 | -         | 89,2  | 85,0      | 92,2  | 85,0      | 96,8  | 85,0                                                                                    | 102,0 | 82,0  | 58  |
| 61                                                                                             | 4,6  | 52,6                                                                                      | 51,7 | 50,0                                                                                     | 3,6  | 62,1                                                                                        | 61,1 | 74,1     | 72,0 | 77,6     | 71,9 | -         | 88,0  | 82,8      | 91,0  | 82,8      | 93,9  | 82,8                                                                                    | 97,7  | 79,7  | 61  |
| 62                                                                                             | 3,9  | 52,3                                                                                      | 51,5 | 49,8                                                                                     | -    | 61,8                                                                                        | 60,8 | 73,8     | 71,1 | 77,3     | 71,3 | -         | 87,6  | 82,1      | 90,6  | 82,1      | 92,6  | 82,1                                                                                    | 96,3  | 79,0  | 62  |
| 66                                                                                             | -    | 51,0                                                                                      | 50,5 | 49,0                                                                                     | -    | 60,5                                                                                        | 59,5 | 72,5     | 69,0 | 76,0     | 69,0 | -         | 86,0  | 79,5      | 89,0  | 79,5      | 90,0  | 79,5                                                                                    | 99,8  | 76,3  | 66  |
| 70                                                                                             | -    | 49,9                                                                                      | 49,1 | 47,8                                                                                     | -    | 58,3                                                                                        | 57,1 | 70,1     | 66,6 | 73,6     | 66,6 | -         | 83,3  | 77,1      | 84,3  | 77,1      | 85,3  | 77,1                                                                                    | 82,5  | 74,0  | 70  |
| 74                                                                                             | -    | 48,1                                                                                      | 47,7 | 46,7                                                                                     | -    | 56,3                                                                                        | 55,3 | 67,6     | 64,8 | 71,5     | 64,6 | -         | 79,0  | 74,8      | 79,0  | 74,8      | 79,8  | 74,8                                                                                    | 75,8  | 72,0  | 74  |
| 78                                                                                             | -    | 46,7                                                                                      | 46,0 | 45,6                                                                                     | -    | 55,0                                                                                        | 54,0 | 66,0     | 63,5 | 68,5     | 63,0 | -         | 73,0  | 72,5      | 73,0  | 72,5      | 73,5  | 72,5                                                                                    | 69,1  | 69,3  | 78  |
| 82                                                                                             | -    | 45,5                                                                                      | 44,8 | 43,8                                                                                     | -    | 53,1                                                                                        | 52,5 | 64,0     | 61,1 | 63,3     | 61,0 | -         | 67,8  | 67,8      | 67,5  | 68,1      | 67,6  | 68,5                                                                                    | 63,5  | 64,0  | 82  |
| 86                                                                                             | -    | 43,7                                                                                      | 43,2 | 42,3                                                                                     | -    | 51,8                                                                                        | 50,9 | 59,6     | 58,6 | 58,5     | 57,8 | -         | 62,5  | 63,0      | 62,5  | 62,8      | 62,5  | 62,8                                                                                    | 57,5  | 58,6  | 86  |
| 90                                                                                             | -    | 42,7                                                                                      | 42,2 | 41,4                                                                                     | -    | 50,5                                                                                        | 49,9 | 55,0     | 55,0 | 53,5     | 53,5 | -         | 57,5  | 58,0      | 57,5  | 57,5      | 57,5  | 57,5                                                                                    | 52,6  | 53,3  | 90  |
| 94                                                                                             | -    | 41,3                                                                                      | 40,8 | 40,6                                                                                     | -    | 49,2                                                                                        | 47,8 | 50,6     | 50,9 | 49,5     | 48,9 | -         | 52,7  | 53,2      | 52,5  | 53,0      | 52,5  | 52,8                                                                                    | 47,9  | 48,5  | 94  |
| 98                                                                                             | -    | 40,4                                                                                      | 40,0 | 39,3                                                                                     | -    | 47,3                                                                                        | 44,8 | 46,7     | 46,9 | 45,6     | 44,8 | -         | 48,4  | 48,5      | 48,4  | 48,4      | 47,9  | 48,3                                                                                    | 43,5  | 44,1  | 98  |
| 102                                                                                            | -    | 39,6                                                                                      | 39,2 | 38,6                                                                                     | -    | 44,7                                                                                        | 40,5 | 43,0     | 43,2 | 41,8     | 41,0 | -         | 44,4  | 44,5      | 44,2  | 44,4      | 43,9  | 44,0                                                                                    | 39,6  | 40,1  | 102 |
| 106                                                                                            | -    | 38,5                                                                                      | 38,2 | 37,8                                                                                     | -    | 40,2                                                                                        | 36,4 | 39,7     | 39,9 | 38,4     | 37,5 | -         | 40,4  | 40,6      | 40,3  | 40,5      | 39,9  | 40,0                                                                                    | 35,9  | 36,3  | 106 |
| 110                                                                                            | -    | 37,7                                                                                      | 37,5 | 37,2                                                                                     | -    | 35,7                                                                                        | 32,3 | 36,6     | 36,8 | 35,2     | 34,3 | -         | 36,9  | 37,1      | 36,6  | 36,9      | 36,2  | 36,3                                                                                    | 32,5  | 32,7  | 110 |
| 114                                                                                            | -    | 36,7                                                                                      | 36,9 | 36,7                                                                                     | -    | 31,3                                                                                        | 28,0 | 33,8     | 33,9 | 32,2     | 31,3 | -         | 33,5  | 33,7      | 33,2  | 33,5      | 32,8  | 32,9                                                                                    | 29,2  | 29,5  | 114 |
| 118                                                                                            | -    | 34,1                                                                                      | 34,3 | 34,5                                                                                     | -    | 27,0                                                                                        | 23,6 | 31,2     | 31,3 | 29,3     | 28,4 | -         | 30,3  | 30,6      | 30,1  | 30,4      | 29,7  | 29,9                                                                                    | 26,2  | 26,4  | 118 |
| 119                                                                                            | -    | 33,5                                                                                      | 33,6 | 15,3                                                                                     | -    | 26,0                                                                                        | 22,6 | 30,5     | 30,7 | 28,6     | 27,7 | -         | 29,6  | 29,9      | 29,4  | 29,7      | 28,9  | 29,1                                                                                    | 25,4  | 25,6  | 119 |
| 122                                                                                            | -    | 31,7                                                                                      | 31,8 | -                                                                                        | -    | 22,7                                                                                        | 19,6 | 28,7     | 28,9 | 26,7     | 25,8 | -         | 27,5  | 27,9      | 27,3  | 27,7      | 26,8  | 27,1                                                                                    | 23,3  | 23,5  | 122 |
| 126                                                                                            | -    | 29,4                                                                                      | 29,5 | -                                                                                        | -    | 18,6                                                                                        | 15,4 | 26,5     | 26,6 | 24,2     | 23,3 | -         | 24,9  | 25,4      | 24,7  | 25,2      | 24,2  | 24,6                                                                                    | 20,6  | 20,8  | 126 |
| 130                                                                                            | -    | 27,4                                                                                      | 27,5 | -                                                                                        | -    | 14,1                                                                                        | 10,9 | 24,4     | 24,5 | 21,9     | 21,0 | -         | 22,7  | 23,2      | 22,4  | 23,0      | 21,9  | 22,5                                                                                    | 18,1  | 18,3  | 130 |
| 132                                                                                            | -    | 26,4                                                                                      | 26,5 | -                                                                                        | -    | 12,1                                                                                        | 8,8  | 23,4     | 23,5 | 20,8     | 19,9 | -         | 21,6  | 22,2      | 21,3  | 22,0      | 20,8  | 21,5                                                                                    | 16,9  | 17,1  | 132 |
| 133                                                                                            | -    | 25,9                                                                                      | 26,0 | -                                                                                        | -    | 10,9                                                                                        | -    | 22,9     | 23,0 | 20,3     | 19,4 | -         | 21,1  | 21,8      | 20,8  | 21,6      | 20,3  | 21,1                                                                                    | 16,4  | 16,6  | 133 |
| 134                                                                                            | -    | 25,4                                                                                      | 25,5 | -                                                                                        | -    | 9,8                                                                                         | -    | 22,4     | 22,6 | 19,8     | -    | -         | 20,6  | -         | 20,4  | -         | 19,9  | -                                                                                       | 15,8  | -     | 134 |
| 135                                                                                            | -    | 25,0                                                                                      | 8,8  | -                                                                                        | -    | 8,7                                                                                         | -    | 21,9     | -    | 19,3     | -    | -         | 20,2  | -         | 19,9  | -         | 19,4  | -                                                                                       | 15,2  | -     | 135 |
| 138                                                                                            | -    | 23,6                                                                                      | -    | -                                                                                        | -    | 5,5                                                                                         | -    | 20,5     | -    | 17,8     | -    | -         | 18,8  | -         | 18,6  | -         | 18,1  | -                                                                                       | 13,7  | -     | 138 |

 0 t   65 t   95 t   125 t   165 t   205 t   265 t   325 t

LSL+LF\_2 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t



# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t +  50 t |      |           |      |  11-21 m |      |          |      |  8,40 m |      |           |       |  9.8 m/s |       |           |       | 360°      |     | EN13000 |   |                                                                                     |  |
|------------------------------------------------------------------------------------------------|------|-----------|------|-------------------------------------------------------------------------------------------|------|----------|------|------------------------------------------------------------------------------------------|------|-----------|-------|---------------------------------------------------------------------------------------------|-------|-----------|-------|-----------|-----|---------|---|-------------------------------------------------------------------------------------|--|
|  147 m        |      |           |      |                                                                                           |      |          |      |                                                                                          |      |           |       |                                                                                             |       |           |       |           |     |         |   |                                                                                     |  |
| LSL+LF_3                                                                                       |      |           |      | LSL+LF_4                                                                                  |      | LSL+LF_6 |      | LSL+LF_8                                                                                 |      |           |       | LSL+LF_10                                                                                   |       | LSL+LF_12 |       | LSL+LF_14 |     |         |   |                                                                                     |  |
|  12 m         |      |           |      |                                                                                           |      |          |      |                                                                                          |      |           |       |                                                                                             |       |           |       |           |     |         |   |                                                                                     |  |
| 0 t                                                                                            |      | 0 t-325 t |      |                                                                                           |      |          |      | 0 t                                                                                      |      | 0 t-325 t |       |                                                                                             |       |           |       |           |     |         |   |                                                                                     |  |
| 15°                                                                                            |      | 20°       |      | 15°                                                                                       |      | 20°      |      | 15°                                                                                      |      | 20°       |       | 15°                                                                                         |       | 20°       |       | 15°       |     | 20°     |   |  |  |
| m                                                                                              | t    | t         | t    | t                                                                                         | t    | t        | t    | t                                                                                        | t    | t         | t     | t                                                                                           | t     | t         | t     | t         | t   | t       | m |                                                                                     |  |
| 19                                                                                             | -    | -         | -    | 81,5                                                                                      | -    | 83,5     | -    | 74,5                                                                                     | 96,0 | -         | 100,0 | -                                                                                           | 108,0 | -         | 125,0 | -         | 19  |         |   |                                                                                     |  |
| 20                                                                                             | 68,0 | 72,0      | 70,5 | 81,0                                                                                      | 80,5 | 83,5     | 82,0 | 70,0                                                                                     | 96,0 | 94,5      | 100,0 | 98,5                                                                                        | 108,0 | 106,0     | 125,0 | 123,0     | 20  |         |   |                                                                                     |  |
| 22                                                                                             | 61,2 | 71,5      | 70,0 | 81,0                                                                                      | 80,0 | 83,2     | 82,0 | 62,5                                                                                     | 95,7 | 94,0      | 100,0 | 98,5                                                                                        | 107,5 | 106,0     | 125,0 | 123,0     | 22  |         |   |                                                                                     |  |
| 24                                                                                             | 54,5 | 71,0      | 70,0 | 81,0                                                                                      | 80,0 | 83,0     | 81,5 | 55,0                                                                                     | 95,5 | 94,0      | 100,0 | 98,5                                                                                        | 107,0 | 106,0     | 125,0 | 119,0     | 24  |         |   |                                                                                     |  |
| 26                                                                                             | 49,1 | 70,7      | 69,5 | 80,7                                                                                      | 79,5 | 82,7     | 81,5 | 49,4                                                                                     | 95,2 | 94,0      | 99,5  | 98,0                                                                                        | 106,5 | 106,0     | 125,0 | 116,0     | 26  |         |   |                                                                                     |  |
| 28                                                                                             | 43,8 | 70,5      | 69,0 | 80,5                                                                                      | 79,5 | 82,5     | 81,5 | 43,8                                                                                     | 95,0 | 93,5      | 99,0  | 98,0                                                                                        | 106,0 | 105,0     | 125,0 | 113,0     | 28  |         |   |                                                                                     |  |
| 30                                                                                             | 39,5 | 70,0      | 68,5 | 80,2                                                                                      | 79,0 | 82,2     | 81,0 | 39,1                                                                                     | 94,7 | 93,5      | 98,7  | 97,5                                                                                        | 106,0 | 105,0     | 125,0 | 110,5     | 30  |         |   |                                                                                     |  |
| 34                                                                                             | 31,6 | 69,0      | 67,5 | 79,5                                                                                      | 78,3 | 81,5     | 80,6 | 30,7                                                                                     | 94,2 | 93,1      | 98,2  | 96,8                                                                                        | 105,0 | 103,6     | 124,0 | 105,5     | 34  |         |   |                                                                                     |  |
| 38                                                                                             | 25,2 | 68,0      | 66,5 | 78,6                                                                                      | 77,6 | 80,6     | 80,1 | 23,9                                                                                     | 93,3 | 92,3      | 97,3  | 95,8                                                                                        | 103,3 | 101,8     | 123,5 | 100,7     | 38  |         |   |                                                                                     |  |
| 42                                                                                             | 19,6 | 67,0      | 65,5 | 78,0                                                                                      | 77,0 | 80,0     | 79,5 | 17,8                                                                                     | 92,0 | 91,0      | 96,0  | 94,5                                                                                        | 102,0 | 99,5      | 121,0 | 96,5      | 42  |         |   |                                                                                     |  |
| 46                                                                                             | 15,1 | 66,0      | 64,5 | 77,3                                                                                      | 76,0 | 79,0     | 78,5 | 13,0                                                                                     | 90,3 | 89,0      | 94,0  | 92,5                                                                                        | 100,0 | 95,5      | 119,0 | 92,5      | 46  |         |   |                                                                                     |  |
| 50                                                                                             | 11,1 | 64,8      | 63,5 | 76,4                                                                                      | 75,1 | 77,7     | 77,2 | 8,6                                                                                      | 88,5 | 87,1      | 92,0  | 90,5                                                                                        | 97,2  | 91,9      | 113,6 | 88,8      | 50  |         |   |                                                                                     |  |
| 54                                                                                             | 7,5  | 63,5      | 62,5 | 75,5                                                                                      | 74,0 | 76,5     | 76,0 | 4,8                                                                                      | 86,5 | 85,5      | 89,5  | 88,5                                                                                        | 94,5  | 88,5      | 108,3 | 85,5      | 54  |         |   |                                                                                     |  |
| 55                                                                                             | 6,7  | 63,2      | 62,0 | 74,6                                                                                      | 73,2 | 76,1     | 75,5 | 4,0                                                                                      | 86,0 | 85,0      | 89,0  | 87,7                                                                                        | 93,3  | 87,7      | 107,0 | 84,7      | 55  |         |   |                                                                                     |  |
| 58                                                                                             | 4,4  | 62,2      | 61,0 | 73,6                                                                                      | 72,5 | 75,1     | 74,0 | -                                                                                        | 84,8 | 83,8      | 87,8  | 85,5                                                                                        | 91,3  | 85,5      | 102,0 | 82,5      | 58  |         |   |                                                                                     |  |
| 59                                                                                             | 3,7  | 61,8      | 60,7 | 73,3                                                                                      | 72,2 | 74,8     | 73,5 | -                                                                                        | 84,4 | 83,4      | 87,4  | 84,7                                                                                        | 90,6  | 84,7      | 100,0 | 81,8      | 59  |         |   |                                                                                     |  |
| 62                                                                                             | -    | 60,8      | 59,8 | 72,0                                                                                      | 70,5 | 74,0     | 71,8 | -                                                                                        | 83,1 | 81,6      | 85,5  | 82,6                                                                                        | 87,6  | 82,6      | 94,3  | 79,8      | 62  |         |   |                                                                                     |  |
| 66                                                                                             | -    | 59,5      | 58,5 | 71,0                                                                                      | 69,5 | 73,0     | 69,5 | -                                                                                        | 81,5 | 80,0      | 83,5  | 80,0                                                                                        | 85,0  | 80,0      | 87,0  | 77,1      | 66  |         |   |                                                                                     |  |
| 70                                                                                             | -    | 58,0      | 57,0 | 69,0                                                                                      | 67,1 | 71,6     | 67,5 | -                                                                                        | 79,3 | 77,3      | 81,1  | 77,6                                                                                        | 82,0  | 77,3      | 80,0  | 74,5      | 70  |         |   |                                                                                     |  |
| 74                                                                                             | -    | 56,0      | 55,0 | 67,3                                                                                      | 65,3 | 69,3     | 65,5 | -                                                                                        | 76,0 | 75,0      | 77,0  | 75,0                                                                                        | 77,3  | 74,6      | 73,6  | 72,1      | 74  |         |   |                                                                                     |  |
| 78                                                                                             | -    | 55,0      | 54,0 | 66,0                                                                                      | 63,5 | 66,0     | 63,5 | -                                                                                        | 71,0 | 72,0      | 71,0  | 72,0                                                                                        | 71,0  | 72,0      | 67,5  | 68,0      | 78  |         |   |                                                                                     |  |
| 82                                                                                             | -    | 53,0      | 52,3 | 63,6                                                                                      | 62,0 | 61,2     | 60,2 | -                                                                                        | 65,6 | 66,1      | 65,6  | 66,5                                                                                        | 65,6  | 66,2      | 61,5  | 62,0      | 82  |         |   |                                                                                     |  |
| 86                                                                                             | -    | 51,7      | 51,0 | 58,6                                                                                      | 58,6 | 56,8     | 55,8 | -                                                                                        | 60,6 | 61,0      | 60,5  | 61,0                                                                                        | 60,5  | 61,0      | 56,0  | 56,8      | 86  |         |   |                                                                                     |  |
| 90                                                                                             | -    | 50,5      | 50,0 | 54,0                                                                                      | 54,0 | 52,5     | 51,5 | -                                                                                        | 56,0 | 56,0      | 55,5  | 56,0                                                                                        | 55,5  | 56,0      | 51,0  | 51,6      | 90  |         |   |                                                                                     |  |
| 94                                                                                             | -    | 49,4      | 48,6 | 49,5                                                                                      | 49,9 | 48,3     | 47,3 | -                                                                                        | 51,3 | 51,6      | 51,1  | 51,5                                                                                        | 50,9  | 51,2      | 46,2  | 46,8      | 94  |         |   |                                                                                     |  |
| 98                                                                                             | -    | 47,2      | 46,0 | 45,7                                                                                      | 46,0 | 44,3     | 43,3 | -                                                                                        | 47,1 | 47,3      | 46,9  | 47,1                                                                                        | 46,5  | 46,7      | 41,8  | 42,4      | 98  |         |   |                                                                                     |  |
| 102                                                                                            | -    | 44,0      | 41,9 | 42,0                                                                                      | 42,2 | 40,4     | 39,4 | -                                                                                        | 42,9 | 43,1      | 42,7  | 42,9                                                                                        | 42,3  | 42,4      | 37,8  | 38,3      | 102 |         |   |                                                                                     |  |
| 106                                                                                            | -    | 40,7      | 37,1 | 38,7                                                                                      | 38,9 | 36,9     | 36,0 | -                                                                                        | 39,1 | 39,2      | 38,9  | 39,0                                                                                        | 38,4  | 38,5      | 34,1  | 34,5      | 106 |         |   |                                                                                     |  |
| 110                                                                                            | -    | 37,0      | 32,4 | 35,6                                                                                      | 35,8 | 33,7     | 32,8 | -                                                                                        | 35,4 | 35,6      | 35,2  | 35,4                                                                                        | 34,7  | 34,8      | 30,7  | 31,0      | 110 |         |   |                                                                                     |  |
| 114                                                                                            | -    | 32,2      | 28,1 | 32,7                                                                                      | 32,9 | 30,7     | 29,8 | -                                                                                        | 32,0 | 32,2      | 31,8  | 32,0                                                                                        | 31,3  | 31,4      | 27,5  | 27,8      | 114 |         |   |                                                                                     |  |
| 118                                                                                            | -    | 27,3      | 23,3 | 30,1                                                                                      | 30,3 | 27,9     | 27,0 | -                                                                                        | 28,9 | 29,1      | 28,7  | 29,0                                                                                        | 28,2  | 28,4      | 24,4  | 24,6      | 118 |         |   |                                                                                     |  |
| 122                                                                                            | -    | 23,0      | 18,9 | 27,7                                                                                      | 27,8 | 25,3     | 24,4 | -                                                                                        | 26,0 | 26,4      | 25,8  | 26,2                                                                                        | 25,3  | 25,6      | 21,6  | 21,7      | 122 |         |   |                                                                                     |  |
| 126                                                                                            | -    | 18,7      | 14,4 | 25,4                                                                                      | 25,6 | 22,8     | 21,9 | -                                                                                        | 23,4 | 23,8      | 23,2  | 23,6                                                                                        | 22,6  | 23,0      | 18,9  | 19,0      | 126 |         |   |                                                                                     |  |
| 130                                                                                            | -    | 13,7      | 9,5  | 23,4                                                                                      | 23,5 | 20,5     | 19,6 | -                                                                                        | 21,0 | 21,5      | 20,8  | 21,3                                                                                        | 20,2  | 20,7      | 16,4  | 16,5      | 130 |         |   |                                                                                     |  |
| 134                                                                                            | -    | 9,1       | 4,8  | 21,4                                                                                      | 21,5 | 18,3     | 17,5 | -                                                                                        | 18,9 | 19,6      | 18,7  | 19,3                                                                                        | 18,1  | 18,8      | 14,0  | 14,2      | 134 |         |   |                                                                                     |  |
| 135                                                                                            | -    | 7,9       | 3,6  | 21,0                                                                                      | 21,0 | 17,8     | 17,0 | -                                                                                        | 18,4 | 19,1      | 18,2  | 18,8                                                                                        | 17,6  | 18,3      | 13,4  | 13,6      | 135 |         |   |                                                                                     |  |
| 136                                                                                            | -    | 6,6       | -    | 20,5                                                                                      | 20,6 | 17,3     | 16,5 | -                                                                                        | 17,9 | 18,7      | 17,7  | 18,4                                                                                        | 17,1  | 17,9      | 12,9  | 13,1      | 136 |         |   |                                                                                     |  |
| 138                                                                                            | -    | 4,5       | -    | 19,6                                                                                      | -    | 16,3     | -    | -                                                                                        | 17,0 | -         | 16,8  | -                                                                                           | 16,2  | -         | 11,9  | -         | 138 |         |   |                                                                                     |  |
| 141                                                                                            | -    | -         | -    | 17,8                                                                                      | -    | 14,9     | -    | -                                                                                        | 15,8 | -         | 15,6  | -                                                                                           | 15,0  | -         | 10,4  | -         | 141 |         |   |                                                                                     |  |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_3 – LSL+LF\_6: 11-19 m

LSL+LF\_8 – LSL+LF\_12: 11-21 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  165 t +  50 t            11-21 m            8,40 m            9.8 m/s           360°           EN13000         </div> |      |      |      |      |      |      |      |      |      |      |       |       |       |       |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-----|
| <div>  <div>150 m</div> <div>LSL+LF_4</div> <div>LSL+LF_6</div> <div>LSL+LF_8</div> <div>LSL+LF_10</div> <div>LSL+LF_12</div> <div>LSL+LF_14</div> </div>                                                                                                                                                                                                                                                                                                         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |     |
| <div>  <div>12 m</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> </div>                                                                                                                                                                                                                                                                                                                                                         |      |      |      |      |      |      |      |      |      |      |       |       |       |       |     |
| <div>  <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div>  </div>                                                                                                                                               |      |      |      |      |      |      |      |      |      |      |       |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t     | t     | t     | t     | m   |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 69,0 | 72,0 | -    | 79,5 | -    | 73,0 | 91,0 | -    | 96,0 | -    | 104,0 | -     | 119,0 | -     | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 66,0 | 71,5 | 70,0 | 79,0 | 78,0 | 68,5 | 91,0 | 89,5 | 96,0 | 94,5 | 104,0 | 102,0 | 119,0 | 117,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 59,2 | 71,2 | 69,5 | 79,0 | 78,0 | 61,2 | 90,7 | 89,5 | 95,7 | 94,0 | 103,5 | 102,0 | 119,0 | 117,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 52,5 | 71,0 | 69,0 | 79,0 | 77,5 | 54,0 | 90,5 | 89,0 | 95,5 | 94,0 | 103,0 | 102,0 | 119,0 | 117,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 47,3 | 70,5 | 69,0 | 78,7 | 77,5 | 48,4 | 90,2 | 89,0 | 95,2 | 94,0 | 103,0 | 102,0 | 119,0 | 115,5 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 42,2 | 70,0 | 68,5 | 78,5 | 77,0 | 42,8 | 90,0 | 89,0 | 95,0 | 93,5 | 103,0 | 101,0 | 119,0 | 114,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 37,9 | 69,5 | 68,0 | 78,2 | 77,0 | 38,2 | 90,0 | 88,5 | 94,5 | 93,0 | 102,5 | 101,0 | 119,0 | 111,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 30,2 | 68,2 | 67,0 | 77,5 | 76,3 | 29,8 | 89,7 | 88,1 | 93,5 | 91,6 | 101,5 | 100,0 | 119,0 | 105,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 23,9 | 67,0 | 65,8 | 76,6 | 75,6 | 23,1 | 88,8 | 87,5 | 92,1 | 90,1 | 100,3 | 99,0  | 118,0 | 101,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 18,3 | 66,0 | 64,5 | 76,0 | 75,0 | 17,1 | 87,5 | 86,5 | 90,5 | 88,5 | 99,0  | 98,0  | 116,6 | 97,0  | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 13,9 | 64,6 | 63,5 | 75,0 | 74,3 | 12,3 | 85,8 | 84,8 | 88,1 | 85,6 | 97,0  | 94,6  | 115,0 | 93,0  | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 9,9  | 63,3 | 62,3 | 74,0 | 73,3 | 8,0  | 84,2 | 83,0 | 85,2 | 82,6 | 93,6  | 92,1  | 111,0 | 89,3  | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6,3  | 62,0 | 61,0 | 72,5 | 72,0 | 4,2  | 82,5 | 81,5 | 83,0 | 80,0 | 91,5  | 88,0  | 107,0 | 86,0  | 54  |
| 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4,0  | 61,0 | 59,9 | 71,7 | 71,2 | -    | 81,2 | 80,0 | 80,2 | 78,0 | 88,7  | 86,2  | 104,0 | 83,7  | 57  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 60,6 | 59,6 | 71,5 | 71,0 | -    | 80,8 | 79,6 | 79,6 | 77,3 | 88,1  | 85,6  | 103,0 | 83,0  | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 59,3 | 58,3 | 70,3 | 69,0 | -    | 79,1 | 77,3 | 77,1 | 73,8 | 85,1  | 81,6  | 96,0  | 80,3  | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 58,0 | 57,0 | 69,0 | 68,0 | -    | 77,5 | 76,0 | 74,5 | 71,5 | 82,5  | 79,0  | 89,1  | 77,8  | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 55,8 | 55,1 | 67,1 | 66,0 | -    | 75,1 | 73,3 | 71,6 | 67,6 | 80,1  | 75,3  | 82,5  | 75,5  | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 53,8 | 53,5 | 65,6 | 64,5 | -    | 73,1 | 71,3 | 68,6 | 65,3 | 76,0  | 72,6  | 76,1  | 73,1  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 52,5 | 51,5 | 64,0 | 62,5 | -    | 70,5 | 69,0 | 66,0 | 63,5 | 70,0  | 70,0  | 70,2  | 70,0  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 50,6 | 50,1 | 60,2 | 59,3 | -    | 65,1 | 65,6 | 63,7 | 61,6 | 64,6  | 65,1  | 64,5  | 65,5  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 49,4 | 48,8 | 56,0 | 55,3 | -    | 60,0 | 60,5 | 60,1 | 59,3 | 59,4  | 60,0  | 59,1  | 60,1  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 48,3 | 47,6 | 52,0 | 51,0 | -    | 55,0 | 55,5 | 55,5 | 56,0 | 54,5  | 55,0  | 54,0  | 54,8  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 46,9 | 46,3 | 47,8 | 47,0 | -    | 50,8 | 51,1 | 50,8 | 51,4 | 50,0  | 50,4  | 49,5  | 50,0  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 45,3 | 45,0 | 43,8 | 42,9 | -    | 46,6 | 46,8 | 46,6 | 46,9 | 45,7  | 45,9  | 45,1  | 45,5  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 43,1 | 43,4 | 40,1 | 38,9 | -    | 42,5 | 42,7 | 42,5 | 42,7 | 41,5  | 41,7  | 41,0  | 41,4  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 39,8 | 40,0 | 36,5 | 35,5 | -    | 38,7 | 38,9 | 38,7 | 38,9 | 37,7  | 37,8  | 37,2  | 37,7  | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 36,7 | 37,0 | 33,2 | 32,4 | -    | 35,0 | 35,2 | 35,0 | 35,2 | 34,0  | 34,1  | 33,8  | 34,2  | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 33,9 | 34,1 | 30,2 | 29,4 | -    | 31,6 | 31,8 | 31,6 | 31,8 | 30,6  | 30,7  | 30,6  | 30,9  | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 31,3 | 31,5 | 27,4 | 26,6 | -    | 28,5 | 28,8 | 28,5 | 28,7 | 27,4  | 27,6  | 27,6  | 27,8  | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 28,8 | 29,0 | 24,8 | 23,9 | -    | 25,6 | 25,9 | 25,6 | 25,8 | 24,5  | 24,7  | 24,8  | 24,9  | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 26,6 | 26,7 | 22,3 | 21,4 | -    | 22,9 | 23,3 | 22,8 | 23,2 | 21,8  | 22,1  | 22,0  | 22,1  | 126 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 24,5 | 24,6 | 19,9 | 19,1 | -    | 20,5 | 21,0 | 20,4 | 20,8 | 19,4  | 19,8  | 19,5  | 19,7  | 130 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 22,6 | 22,7 | 17,7 | 16,9 | -    | 18,3 | 18,9 | 18,2 | 18,7 | 17,3  | 17,7  | 17,2  | 17,3  | 134 |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 20,8 | 20,9 | 15,7 | 14,9 | -    | 16,3 | 17,0 | 16,2 | 16,9 | 15,3  | 15,9  | 15,0  | 15,2  | 138 |
| 140                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 19,9 | 16,1 | 14,7 | -    | -    | 15,4 | -    | 15,3 | -    | 14,4  | -     | 14,0  | -     | 140 |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 19,0 | -    | 13,8 | -    | -    | 14,6 | -    | 14,5 | -    | 13,6  | -     | 13,0  | -     | 142 |
| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 18,5 | -    | 13,4 | -    | -    | 14,2 | -    | 14,1 | -    | 13,2  | -     | 12,5  | -     | 143 |


☐ 0 t
 ☐ 65 t
 ☐ 95 t
 ☐ 125 t
 ☐ 165 t
 ☒ 205 t
 ☐ 265 t
 ☐ 325 t

LSL+LF\_4 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

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Operação · Эксплуатация

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000 |      |      |      |      |      |      |      |      |      |      |      |      |       |       |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-----|
|  <div> <div>153 m</div> <div>LSL+LF_4   LSL+LF_6   LSL+LF_8   LSL+LF_10   LSL+LF_12   LSL+LF_14</div> </div> <div>12 m</div> <div>0 t   0 t - 325 t   0 t   0 t - 325 t</div> <div>15°   20°   15°   20°   15°   20°   15°   20°   15°   20°   15°   20°</div>                                                              |      |      |      |      |      |      |      |      |      |      |      |      |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t     | t     | m   |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 67,0 | 69,0 | -    | 75,5 | -    | 70,5 | 87,0 | -    | 91,5 | -    | 98,5 | -    | 113,0 | -     | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 64,5 | 69,0 | 67,5 | 75,5 | 74,0 | 66,5 | 86,5 | -    | 91,0 | -    | 98,5 | -    | 113,0 | -     | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 61,1 | 68,8 | 67,2 | 75,3 | 74,0 | 62,8 | 86,3 | 85,5 | 91,0 | 89,5 | 98,3 | 97,0 | 113,0 | 111,0 | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 57,7 | 68,7 | 67,0 | 75,2 | 74,0 | 59,2 | 86,2 | 85,0 | 91,0 | 89,5 | 98,2 | 97,0 | 113,0 | 111,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 51,0 | 68,5 | 67,0 | 75,0 | 73,5 | 52,0 | 86,0 | 85,0 | 91,0 | 89,5 | 98,0 | 97,0 | 113,0 | 111,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 45,8 | 68,0 | 66,5 | 74,7 | 73,5 | 46,5 | 86,0 | 85,0 | 90,7 | 89,5 | 98,0 | 97,0 | 113,0 | 111,0 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 40,7 | 67,5 | 66,0 | 74,5 | 73,0 | 41,1 | 86,0 | 84,5 | 90,5 | 89,0 | 98,0 | 97,0 | 113,0 | 111,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 36,5 | 67,0 | 65,5 | 74,2 | 73,0 | 36,5 | 85,7 | 84,5 | 90,0 | 88,5 | 97,5 | 96,5 | 113,0 | 110,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 28,8 | 66,0 | 64,5 | 73,5 | 72,6 | 28,3 | 85,2 | 84,1 | 89,2 | 87,5 | 97,2 | 96,1 | 113,0 | 106,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 22,6 | 65,0 | 63,6 | 72,6 | 72,1 | 21,6 | 84,5 | 83,3 | 88,1 | 86,1 | 96,5 | 95,3 | 112,0 | 101,7 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 17,1 | 64,0 | 63,0 | 72,0 | 71,5 | 15,6 | 83,5 | 82,0 | 86,5 | 84,5 | 95,5 | 94,0 | 111,3 | 97,5  | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 12,7 | 63,0 | 61,6 | 71,3 | 70,8 | 10,9 | 81,8 | 80,6 | 84,5 | 82,5 | 93,5 | 91,6 | 110,0 | 93,5  | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8,7  | 61,9 | 60,6 | 70,3 | 69,8 | 6,6  | 80,3 | 79,0 | 82,0 | 80,5 | 90,4 | 89,0 | 106,6 | 90,1  | 50  |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6,0  | 61,0 | 60,0 | 69,3 | 69,1 | 3,7  | 79,0 | 77,8 | 80,5 | 78,0 | 88,6 | 87,5 | 104,0 | 87,6  | 53  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5,2  | 60,5 | 59,5 | 69,0 | 69,0 | -    | 78,5 | 77,5 | 80,0 | 77,5 | 88,0 | 87,0 | 103,0 | 86,7  | 54  |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3,6  | 60,0 | 59,0 | 68,5 | 68,5 | -    | 77,6 | 76,6 | 78,0 | 76,1 | 87,0 | 85,3 | 101,0 | 85,0  | 56  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 59,5 | 58,5 | 68,0 | 68,0 | -    | 76,8 | 75,8 | 77,0 | 74,8 | 86,0 | 83,6 | 99,0  | 83,5  | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 58,3 | 57,3 | 67,0 | 67,0 | -    | 75,1 | 73,8 | 74,6 | 71,8 | 83,5 | 81,3 | 92,6  | 80,8  | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 57,0 | 56,0 | 66,0 | 66,0 | -    | 73,5 | 72,0 | 72,0 | 69,5 | 81,5 | 79,0 | 86,3  | 78,3  | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 55,5 | 54,5 | 65,0 | 64,0 | -    | 71,3 | 70,6 | 70,0 | 66,1 | 78,1 | 76,0 | 80,0  | 76,0  | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 53,7 | 53,5 | 63,9 | 62,6 | -    | 69,5 | 67,8 | 66,8 | 63,7 | 73,5 | 73,0 | 74,0  | 73,3  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 52,5 | 51,5 | 62,5 | 61,0 | -    | 67,5 | 65,5 | 64,5 | 61,5 | 67,5 | 68,5 | 68,1  | 69,0  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 50,6 | 50,0 | 58,1 | 57,3 | -    | 62,8 | 62,6 | 62,1 | 59,8 | 62,5 | 63,1 | 62,5  | 63,5  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 49,5 | 48,9 | 54,0 | 53,5 | -    | 58,1 | 58,6 | 58,6 | 57,7 | 57,3 | 58,0 | 57,0  | 58,1  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 48,2 | 47,9 | 50,0 | 49,4 | -    | 53,5 | 54,0 | 53,5 | 54,0 | 52,5 | 53,0 | 52,2  | 53,1  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 47,1 | 46,5 | 46,1 | 45,4 | -    | 49,1 | 49,6 | 49,2 | 49,6 | 48,1 | 48,5 | 47,7  | 48,3  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 45,2 | 44,8 | 42,3 | 41,4 | -    | 44,9 | 45,2 | 45,0 | 45,2 | 43,9 | 44,2 | 43,3  | 43,8  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 42,2 | 42,4 | 38,5 | 37,4 | -    | 40,9 | 41,2 | 41,0 | 41,2 | 39,8 | 40,0 | 39,2  | 39,6  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 38,8 | 39,1 | 34,9 | 34,0 | -    | 37,1 | 37,4 | 37,2 | 37,3 | 36,0 | 36,2 | 35,3  | 35,8  | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 35,7 | 36,0 | 31,5 | 30,8 | -    | 33,5 | 33,7 | 33,5 | 33,6 | 32,3 | 32,5 | 32,0  | 32,4  | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 32,9 | 33,1 | 28,7 | 27,9 | -    | 30,2 | 30,4 | 30,1 | 30,3 | 29,0 | 29,1 | 28,8  | 29,2  | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 30,3 | 30,5 | 25,9 | 25,1 | -    | 27,1 | 27,3 | 27,0 | 27,2 | 25,8 | 26,0 | 25,8  | 26,1  | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 27,8 | 28,0 | 23,3 | 22,4 | -    | 24,2 | 24,4 | 24,0 | 24,3 | 22,9 | 23,1 | 23,0  | 23,2  | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 25,6 | 25,7 | 20,8 | 19,9 | -    | 21,5 | 21,8 | 21,3 | 21,6 | 20,2 | 20,4 | 20,3  | 20,5  | 126 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 23,5 | 23,6 | 18,5 | 17,6 | -    | 19,0 | 19,4 | 18,9 | 19,2 | 17,8 | 18,1 | 17,8  | 18,0  | 130 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 21,5 | 21,6 | 16,3 | 15,5 | -    | 16,7 | 17,3 | 16,6 | 17,1 | 15,5 | 16,0 | 15,4  | 15,6  | 134 |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 19,7 | 19,8 | 14,3 | 13,5 | -    | 14,7 | 15,3 | 14,6 | 15,1 | 13,5 | 14,1 | 13,2  | 13,4  | 138 |
| 141                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 18,4 | 18,5 | 12,9 | 12,1 | -    | 13,4 | 14,0 | 13,2 | 13,9 | 12,1 | 12,8 | 11,7  | 11,9  | 141 |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 18,0 | 18,1 | 12,4 | -    | -    | 12,9 | -    | 12,8 | -    | 11,7 | -    | 11,2  | -     | 142 |
| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 17,6 | 6,2  | 11,9 | -    | -    | 12,5 | -    | 12,3 | -    | 11,3 | -    | 10,7  | -     | 143 |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 16,0 | -    | 10,6 | -    | -    | 11,3 | -    | 11,0 | -    | 10,1 | -    | 9,4   | -     | 146 |


☐ 0 t  
 ☐ 65 t  
 ☐ 95 t  
 ☐ 125 t  
 ☐ 165 t  
 ☐ 205 t  
 ☐ 265 t  
 ☐ 325 t

LSL+LF\_4 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  <b>165 t +  50 t</b>  <b>11-21 m</b>  <b>8,40 m</b>  <b>9.8 m/s</b> <b>360°</b> <b>EN13000</b> </div>                                                                                                                                              |      |      |      |      |      |      |      |      |      |      |      |      |       |       |     |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-----|
| <div>  <div> <div>156 m</div> <div> <div>LSL+LF_4</div> <div>LSL+LF_6</div> <div>LSL+LF_8</div> <div>LSL+LF_10</div> <div>LSL+LF_12</div> <div>LSL+LF_14</div> </div> </div> <div> <div>12 m</div> <div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> </div> </div> <div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div>  </div> |      |      |      |      |      |      |      |      |      |      |      |      |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t     | t     | m   |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 62,5 | 66,0 | -    | 71,0 | -    | 65,0 | 82,0 | -    | 86,0 | -    | 93,5 | -    | 107,0 | -     | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 59,3 | 65,8 | 64,5 | 70,8 | 70,0 | 61,3 | 81,8 | 80,5 | 85,8 | 85,0 | 93,3 | 92,0 | 107,0 | 106,0 | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 56,1 | 65,7 | 64,5 | 70,7 | 70,0 | 57,7 | 81,7 | 80,5 | 85,7 | 84,5 | 93,2 | 92,0 | 107,0 | 106,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 49,7 | 65,5 | 64,0 | 70,5 | 70,0 | 50,5 | 81,5 | 80,5 | 85,5 | 84,5 | 93,0 | 92,0 | 107,0 | 106,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 44,5 | 65,0 | 63,5 | 70,2 | 69,5 | 45,1 | 81,2 | 80,0 | 85,5 | 84,5 | 93,0 | 92,0 | 107,0 | 106,0 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 39,4 | 64,5 | 63,5 | 70,0 | 69,5 | 39,8 | 81,0 | 80,0 | 85,5 | 84,0 | 93,0 | 92,0 | 107,0 | 106,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 35,2 | 64,0 | 63,0 | 69,7 | 69,0 | 35,3 | 80,7 | 80,0 | 85,2 | 84,0 | 92,7 | 91,5 | 107,0 | 105,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 27,6 | 63,2 | 62,0 | 69,2 | 68,6 | 27,1 | 80,5 | 79,6 | 84,7 | 83,3 | 92,5 | 91,5 | 106,5 | 104,5 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 21,4 | 62,5 | 61,1 | 68,6 | 68,1 | 20,4 | 80,0 | 79,0 | 83,8 | 82,3 | 91,8 | 90,8 | 106,0 | 102,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 15,9 | 61,5 | 60,5 | 68,0 | 67,5 | 14,5 | 79,0 | 78,0 | 82,5 | 81,0 | 90,5 | 89,5 | 105,3 | 98,0  | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 11,5 | 60,5 | 59,5 | 67,3 | 66,8 | 9,8  | 77,6 | 76,6 | 80,8 | 79,3 | 88,8 | 87,5 | 104,0 | 94,0  | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 7,6  | 59,3 | 58,5 | 66,3 | 66,0 | 5,5  | 76,5 | 75,0 | 79,0 | 77,5 | 86,3 | 85,0 | 101,0 | 90,6  | 50  |
| 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 5,8  | 58,8 | 58,0 | 65,9 | 65,5 | 3,6  | 75,5 | 74,2 | 78,0 | 76,5 | 85,1 | 84,0 | 100,0 | 89,0  | 52  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 4,1  | 58,5 | 57,5 | 65,5 | 65,0 | -    | 74,5 | 73,5 | 77,0 | 75,5 | 84,0 | 83,0 | 98,5  | 87,3  | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 57,1 | 56,5 | 64,1 | 64,0 | -    | 73,1 | 72,1 | 75,3 | 73,3 | 82,0 | 80,6 | 95,0  | 84,0  | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 56,0 | 55,3 | 63,0 | 63,0 | -    | 71,8 | 70,6 | 73,1 | 71,5 | 79,6 | 78,1 | 89,6  | 81,3  | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 55,0 | 54,0 | 62,0 | 62,0 | -    | 70,5 | 69,0 | 71,5 | 69,5 | 78,0 | 76,5 | 83,8  | 78,8  | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 53,5 | 52,6 | 61,0 | 61,0 | -    | 68,1 | 67,6 | 69,1 | 67,0 | 75,6 | 73,5 | 77,5  | 76,5  | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 51,8 | 51,2 | 60,0 | 60,0 | -    | 66,7 | 65,5 | 67,2 | 65,0 | 71,8 | 71,0 | 71,9  | 72,1  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 51,0 | 50,0 | 59,0 | 58,5 | -    | 65,0 | 63,0 | 65,5 | 62,0 | 66,0 | 67,0 | 66,3  | 67,1  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 49,5 | 48,6 | 55,6 | 55,1 | -    | 61,0 | 60,6 | 61,1 | 60,0 | 61,0 | 61,6 | 61,0  | 61,5  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 48,6 | 47,6 | 52,0 | 51,5 | -    | 56,6 | 57,0 | 56,6 | 57,5 | 55,9 | 56,8 | 55,8  | 56,7  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 47,2 | 46,6 | 48,5 | 47,8 | -    | 52,0 | 52,5 | 52,0 | 52,5 | 51,5 | 52,0 | 51,1  | 51,7  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 46,1 | 45,2 | 44,6 | 43,9 | -    | 47,8 | 48,2 | 47,8 | 48,2 | 47,0 | 47,4 | 46,5  | 47,2  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | -    | 44,2 | 43,7 | 40,9 | 40,1 | -    | 43,7 | 44,0 | 43,7 | 44,0 | 42,8 | 43,1 | 42,3  | 42,8  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 41,2 | 41,5 | 37,3 | 36,3 | -    | 39,7 | 40,0 | 39,7 | 39,9 | 38,8 | 39,0 | 38,2  | 38,6  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 37,9 | 38,2 | 33,7 | 32,7 | -    | 36,0 | 36,2 | 35,9 | 36,1 | 35,0 | 35,2 | 34,4  | 34,7  | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 34,8 | 35,1 | 30,4 | 29,5 | -    | 32,4 | 32,6 | 32,3 | 32,5 | 31,4 | 31,6 | 31,0  | 31,4  | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 32,0 | 32,2 | 27,4 | 26,6 | -    | 29,1 | 29,3 | 29,0 | 29,2 | 28,0 | 28,2 | 27,9  | 28,2  | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 29,3 | 29,5 | 24,6 | 23,8 | -    | 26,0 | 26,2 | 25,9 | 26,1 | 24,8 | 25,0 | 24,9  | 25,2  | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 26,9 | 27,1 | 22,0 | 21,1 | -    | 23,1 | 23,3 | 23,0 | 23,1 | 22,0 | 22,1 | 22,1  | 22,3  | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 24,6 | 24,8 | 19,6 | 18,7 | -    | 20,4 | 20,7 | 20,2 | 20,5 | 19,2 | 19,5 | 19,4  | 19,7  | 126 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 22,5 | 22,7 | 17,3 | 16,4 | -    | 17,9 | 18,3 | 17,8 | 18,1 | 16,7 | 17,1 | 16,9  | 17,1  | 130 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 20,6 | 20,7 | 15,1 | 14,2 | -    | 15,6 | 16,0 | 15,5 | 15,9 | 14,4 | 14,9 | 14,6  | 14,7  | 134 |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 18,7 | 18,9 | 13,1 | 12,2 | -    | 13,5 | 14,0 | 13,4 | 13,9 | 12,4 | 12,9 | 12,4  | 12,5  | 138 |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 15,5 | 17,2 | 11,1 | 10,3 | -    | 11,6 | 12,3 | 11,5 | 12,1 | 10,6 | 11,2 | 10,3  | 10,5  | 142 |
| 143                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 14,7 | 16,8 | 10,6 | 9,9  | -    | 11,2 | 11,9 | 11,1 | 11,7 | 10,1 | 10,8 | 9,8   | 10,0  | 143 |
| 145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 13,2 | 16,0 | 9,7  | -    | -    | 10,4 | -    | 10,2 | -    | 9,3  | -    | 8,9   | -     | 145 |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 12,4 | -    | 9,3  | -    | -    | 10,0 | -    | 9,8  | -    | 8,9  | -    | 8,4   | -     | 146 |
| 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 11,0 | -    | 8,5  | -    | -    | 9,2  | -    | 8,9  | -    | 8,2  | -    | 7,5   | -     | 148 |



0 t

65 t

95 t

125 t

165 t

205 t

265 t

325 t

LSL+LF\_4 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div>  165 t +  50 t            11-21 m            8,40 m            9.8 m/s           360°           EN13000         </div> |      |      |      |      |      |      |      |      |      |      |      |      |       |       |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-----|
| <div>  <div> <div>159 m</div> <div>LSL+LF_4</div> <div>LSL+LF_6</div> <div>LSL+LF_8</div> <div>LSL+LF_10</div> <div>LSL+LF_12</div> <div>LSL+LF_14</div> </div> <div>12 m</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div>            |      |      |      |      |      |      |      |      |      |      |      |      |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t     | t     | m   |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 61,0 | 63,0 | -    | 67,5 | -    | 63,0 | 78,5 | -    | 82,0 | -    | 89,0 | -    | 102,0 | -     | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 57,7 | 62,8 | 62,0 | 67,3 | 66,5 | 59,5 | 78,2 | 77,0 | 81,8 | 81,0 | 88,8 | 87,5 | 102,0 | 100,0 | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 54,5 | 62,7 | 62,0 | 67,2 | 66,5 | 56,0 | 78,0 | 77,0 | 81,7 | 80,5 | 88,7 | 87,5 | 102,0 | 100,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 48,1 | 62,5 | 61,5 | 67,0 | 66,5 | 49,1 | 77,5 | 76,5 | 81,5 | 80,5 | 88,5 | 87,5 | 102,0 | 100,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 43,0 | 62,2 | 61,5 | 66,7 | 66,0 | 43,6 | 77,5 | 76,5 | 81,2 | 80,0 | 88,5 | 87,5 | 102,0 | 100,0 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 37,9 | 62,0 | 61,0 | 66,5 | 66,0 | 38,1 | 77,5 | 76,5 | 81,0 | 80,0 | 88,5 | 87,5 | 102,0 | 100,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 33,8 | 61,7 | 60,5 | 66,2 | 65,5 | 33,6 | 77,2 | 76,0 | 80,7 | 80,0 | 88,2 | 87,0 | 102,0 | 100,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 26,3 | 61,0 | 59,8 | 65,7 | 65,1 | 25,5 | 76,7 | 75,6 | 80,2 | 79,0 | 87,7 | 86,6 | 101,5 | 100,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 20,1 | 60,1 | 59,1 | 65,1 | 64,6 | 18,9 | 76,0 | 74,8 | 79,5 | 78,0 | 87,0 | 85,8 | 100,5 | 99,2  | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 14,7 | 59,5 | 58,5 | 64,5 | 64,0 | 13,1 | 75,0 | 73,5 | 78,5 | 77,0 | 86,0 | 84,5 | 99,6  | 97,1  | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 10,3 | 58,5 | 57,5 | 63,8 | 63,3 | 8,4  | 73,6 | 72,1 | 77,2 | 75,3 | 85,0 | 83,5 | 99,0  | 94,5  | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 6,4  | 57,5 | 56,6 | 63,0 | 62,5 | 4,1  | 72,1 | 70,7 | 75,0 | 73,5 | 82,0 | 80,6 | 96,3  | 91,1  | 50  |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3,7  | 56,7 | 56,1 | 62,2 | 61,7 | -    | 70,9 | 69,8 | 73,5 | 72,0 | 80,5 | 79,0 | 95,0  | 88,7  | 53  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 56,5 | 56,0 | 62,0 | 61,5 | -    | 70,5 | 69,5 | 73,0 | 71,5 | 80,0 | 78,5 | 94,2  | 88,0  | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 55,8 | 55,0 | 61,0 | 60,5 | -    | 68,8 | 67,8 | 71,3 | 69,5 | 77,8 | 76,5 | 91,0  | 85,0  | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 55,0 | 54,0 | 60,0 | 59,6 | -    | 67,3 | 66,6 | 69,5 | 67,5 | 76,0 | 73,5 | 86,3  | 82,0  | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 54,0 | 53,0 | 59,0 | 59,0 | -    | 66,0 | 64,0 | 67,5 | 65,5 | 74,0 | 71,5 | 81,0  | 79,0  | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 52,7 | 52,0 | 58,0 | 58,3 | -    | 63,9 | 61,8 | 65,8 | 63,0 | 71,8 | 69,0 | 75,0  | 76,0  | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 51,0 | 50,5 | 57,0 | 57,5 | -    | 62,0 | 60,0 | 64,0 | 60,8 | 69,2 | 66,9 | 69,1  | 70,4  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 50,0 | 49,7 | 56,0 | 56,0 | -    | 60,5 | 58,0 | 62,0 | 58,5 | 64,0 | 64,5 | 63,8  | 64,8  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 48,9 | 48,3 | 53,3 | 53,0 | -    | 58,1 | 56,0 | 59,2 | 56,5 | 58,8 | 59,5 | 58,5  | 59,5  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 48,1 | 47,5 | 50,1 | 49,6 | -    | 54,8 | 53,8 | 54,6 | 54,1 | 54,2 | 54,6 | 53,9  | 54,6  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 46,7 | 46,4 | 46,5 | 45,9 | -    | 50,5 | 51,0 | 50,0 | 50,5 | 49,7 | 50,0 | 49,1  | 49,8  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 45,8 | 45,2 | 42,8 | 42,1 | -    | 46,2 | 46,6 | 46,1 | 46,5 | 45,3 | 45,7 | 44,6  | 45,4  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | -    | 43,6 | 43,4 | 39,2 | 38,4 | -    | 42,1 | 42,5 | 42,0 | 42,3 | 41,2 | 41,5 | 40,4  | 41,0  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 40,3 | 40,5 | 35,6 | 34,7 | -    | 38,2 | 38,5 | 38,0 | 38,3 | 37,2 | 37,4 | 36,4  | 36,9  | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 36,9 | 37,2 | 32,1 | 31,0 | -    | 34,5 | 34,8 | 34,3 | 34,5 | 33,4 | 33,6 | 32,6  | 32,9  | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 33,8 | 34,1 | 28,8 | 27,9 | -    | 31,0 | 31,3 | 30,8 | 31,0 | 29,9 | 30,0 | 29,2  | 29,6  | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 31,0 | 31,2 | 25,7 | 25,0 | -    | 27,7 | 27,9 | 27,4 | 27,6 | 26,5 | 26,6 | 26,0  | 26,4  | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 28,3 | 28,5 | 23,0 | 22,3 | -    | 24,5 | 24,8 | 24,3 | 24,5 | 23,3 | 23,5 | 23,1  | 23,4  | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 25,9 | 26,1 | 20,5 | 19,6 | -    | 21,7 | 21,9 | 21,4 | 21,6 | 20,5 | 20,6 | 20,3  | 20,6  | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 23,6 | 23,8 | 18,1 | 17,2 | -    | 19,0 | 19,2 | 18,7 | 18,9 | 17,7 | 17,9 | 17,7  | 17,9  | 126 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 21,5 | 21,6 | 15,8 | 14,9 | -    | 16,5 | 16,8 | 16,2 | 16,5 | 15,2 | 15,5 | 15,2  | 15,4  | 130 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 19,3 | 19,5 | 13,6 | 12,7 | -    | 14,1 | 13,9 | 13,8 | 14,2 | 12,8 | 13,2 | 12,4  | 12,4  | 134 |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 16,9 | 17,3 | 11,6 | 10,7 | -    | 12,0 | 10,7 | 11,7 | 11,8 | 10,7 | 11,2 | 9,6   | 9,7   | 138 |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 13,3 | 14,4 | 9,7  | 8,9  | -    | 8,5  | 6,5  | 9,0  | 7,6  | 8,8  | 9,4  | 7,0   | 7,2   | 142 |
| 145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 11,0 | 12,1 | 8,3  | 7,6  | -    | 5,8  | 3,5  | 6,7  | 4,6  | 7,5  | 8,2  | 5,3   | 5,6   | 145 |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 10,7 | -    | 7,9  | -    | -    | 4,8  | -    | 5,8  | -    | 7,1  | -    | 4,8   | -     | 146 |
| 147                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 9,8  | -    | 7,5  | -    | -    | 3,9  | -    | 4,8  | -    | 6,7  | -    | 4,2   | -     | 147 |
| 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 8,9  | -    | 7,1  | -    | -    | -    | -    | 3,9  | -    | 6,3  | -    | 3,7   | -     | 148 |
| 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 7,2  | -    | 6,3  | -    | -    | -    | -    | -    | -    | 5,6  | -    | -     | -     | 150 |
| 151                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -    | 6,3  | -    | 5,9  | -    | -    | -    | -    | -    | -    | 5,3  | -    | -     | -     | 151 |



0 t

65 t

95 t

125 t

165 t

205 t

265 t

325 t

LSL+LF\_4 – LSL+LF\_6:  11-19 m

LSL+LF\_8 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |      |             |      |           |      |      |      |           |      |             |      |           |      |      |     |
|--------------------------------------------------|------|-------------|------|-----------|------|------|------|-----------|------|-------------|------|-----------|------|------|-----|
| 162 m                                            |      |             |      |           |      |      |      | 165 m     |      |             |      |           |      |      |     |
| LSL+LF_10                                        |      | LSL+LF_12   |      | LSL+LF_14 |      |      |      | LSL+LF_10 |      | LSL+LF_12   |      | LSL+LF_14 |      |      |     |
| 12 m                                             |      |             |      |           |      |      |      |           |      |             |      |           |      |      |     |
| 0 t                                              |      | 0 t - 325 t |      |           |      |      |      | 0 t       |      | 0 t - 325 t |      |           |      |      |     |
| 15°                                              |      | 20°         |      | 15°       |      | 20°  |      | 15°       |      | 20°         |      | 15°       |      | 20°  |     |
| m                                                | t    | t           | t    | t         | t    | t    | t    | t         | t    | t           | t    | t         | t    | t    | m   |
| 20                                               | 61,0 | 77,5        | -    | 84,0      | -    | 97,5 | -    | 59,0      | 73,5 | -           | 80,0 | -         | 92,5 | -    | 20  |
| 21                                               | 57,6 | 77,3        | 76,5 | 83,8      | 82,5 | 97,5 | 96,0 | 55,6      | 73,3 | -           | 79,8 | -         | 92,5 | -    | 21  |
| 22                                               | 54,3 | 77,2        | 76,5 | 83,7      | 82,5 | 97,5 | 96,0 | 52,3      | 73,2 | 72,5        | 79,7 | 79,0      | 92,5 | 91,5 | 22  |
| 24                                               | 47,6 | 77,0        | 76,0 | 83,5      | 82,5 | 97,5 | 96,0 | 45,7      | 73,0 | 72,5        | 79,5 | 78,5      | 92,5 | 91,5 | 24  |
| 26                                               | 42,1 | 76,7        | 76,0 | 83,2      | 82,0 | 97,5 | 96,0 | 40,3      | 72,7 | 72,0        | 79,5 | 78,5      | 92,5 | 91,5 | 26  |
| 28                                               | 36,7 | 76,5        | 76,0 | 83,0      | 82,0 | 97,5 | 96,0 | 35,0      | 72,5 | 72,0        | 79,5 | 78,5      | 92,5 | 91,5 | 28  |
| 30                                               | 32,3 | 76,5        | 75,5 | 82,7      | 82,0 | 97,5 | 96,0 | 30,6      | 72,5 | 71,5        | 79,0 | 78,0      | 92,5 | 91,5 | 30  |
| 34                                               | 24,3 | 76,2        | 74,8 | 82,2      | 81,3 | 97,0 | 95,7 | 22,7      | 72,2 | 71,1        | 78,0 | 77,0      | 92,0 | 91,0 | 34  |
| 38                                               | 17,7 | 75,5        | 74,0 | 81,5      | 80,5 | 96,5 | 95,0 | 16,2      | 71,5 | 70,5        | 76,8 | 75,6      | 91,2 | 90,7 | 38  |
| 42                                               | 11,9 | 74,5        | 73,0 | 80,5      | 79,5 | 95,5 | 93,5 | 10,4      | 70,5 | 69,5        | 75,5 | 74,0      | 90,6 | 89,6 | 42  |
| 46                                               | 7,3  | 73,3        | 71,8 | 79,0      | 78,0 | 94,5 | 91,5 | 5,8       | 69,5 | 68,5        | 74,0 | 72,5      | 90,0 | 88,0 | 46  |
| 48                                               | 5,0  | 72,5        | 71,5 | 78,5      | 77,5 | 93,5 | 90,1 | 3,6       | 69,0 | 68,0        | 73,0 | 71,5      | 89,0 | 86,8 | 48  |
| 49                                               | 4,0  | 72,0        | 70,8 | 77,9      | 76,0 | 93,0 | 89,5 | -         | 68,5 | 67,5        | 72,0 | 70,6      | 88,6 | 86,2 | 49  |
| 50                                               | -    | 71,6        | 70,3 | 77,3      | 75,6 | 92,5 | 88,8 | -         | 68,1 | 67,1        | 71,5 | 70,0      | 88,3 | 85,6 | 50  |
| 54                                               | -    | 70,0        | 69,0 | 75,0      | 74,0 | 90,5 | 86,3 | -         | 66,5 | 65,5        | 69,5 | 68,0      | 86,3 | 83,1 | 54  |
| 58                                               | -    | 68,3        | 67,3 | 73,0      | 71,3 | 87,5 | 83,5 | -         | 65,1 | 64,1        | 66,6 | 65,6      | 84,0 | 80,5 | 58  |
| 62                                               | -    | 66,6        | 65,3 | 71,0      | 69,3 | 83,8 | 80,5 | -         | 63,8 | 62,8        | 64,3 | 62,8      | 80,6 | 77,8 | 62  |
| 66                                               | -    | 65,0        | 64,0 | 69,0      | 67,0 | 79,1 | 77,3 | -         | 62,5 | 61,5        | 62,0 | 60,5      | 76,2 | 74,8 | 66  |
| 70                                               | -    | 63,4        | 61,8 | 67,0      | 64,8 | 73,5 | 74,0 | -         | 60,6 | 60,0        | 58,7 | 58,2      | 70,5 | 71,5 | 70  |
| 74                                               | -    | 61,2        | 59,8 | 65,1      | 62,0 | 67,8 | 68,8 | -         | 58,8 | 57,8        | 56,5 | 55,3      | 65,1 | 66,1 | 74  |
| 78                                               | -    | 60,0        | 58,0 | 63,5      | 60,0 | 62,5 | 63,5 | -         | 57,5 | 56,5        | 54,0 | 53,0      | 60,0 | 61,0 | 78  |
| 82                                               | -    | 57,6        | 55,6 | 58,5      | 57,6 | 57,5 | 58,5 | -         | 55,6 | 54,5        | 50,8 | 50,0      | 55,0 | 56,0 | 82  |
| 86                                               | -    | 54,2        | 53,0 | 53,8      | 54,3 | 52,8 | 53,4 | -         | 51,9 | 51,8        | 48,0 | 48,1      | 50,6 | 51,5 | 86  |
| 90                                               | -    | 49,7        | 50,0 | 49,6      | 50,0 | 48,2 | 48,9 | -         | 47,8 | 48,4        | 44,8 | 46,0      | 46,2 | 47,1 | 90  |
| 94                                               | -    | 45,5        | 45,9 | 45,3      | 45,8 | 43,8 | 44,5 | -         | 43,6 | 44,2        | 41,6 | 43,4      | 41,8 | 42,7 | 94  |
| 98                                               | -    | 41,4        | 41,9 | 41,2      | 41,6 | 39,6 | 40,3 | -         | 39,6 | 40,1        | 38,3 | 40,1      | 37,7 | 38,5 | 98  |
| 102                                              | -    | 37,5        | 37,9 | 37,3      | 37,6 | 35,6 | 36,1 | -         | 35,8 | 36,2        | 35,1 | 36,1      | 33,9 | 34,4 | 102 |
| 106                                              | -    | 33,9        | 34,1 | 33,6      | 33,8 | 31,9 | 32,2 | -         | 32,2 | 32,5        | 31,9 | 32,4      | 30,1 | 30,5 | 106 |
| 110                                              | -    | 30,4        | 30,6 | 30,1      | 30,3 | 28,3 | 28,8 | -         | 28,7 | 29,0        | 28,5 | 28,9      | 26,6 | 27,0 | 110 |
| 114                                              | -    | 27,1        | 27,3 | 26,8      | 26,9 | 25,1 | 25,6 | -         | 25,5 | 25,7        | 25,1 | 25,5      | 23,4 | 23,7 | 114 |
| 118                                              | -    | 23,9        | 24,1 | 23,6      | 23,8 | 22,2 | 22,6 | -         | 22,4 | 22,6        | 20,3 | 21,7      | 20,4 | 20,9 | 118 |
| 122                                              | -    | 21,1        | 21,3 | 20,8      | 20,9 | 19,5 | 19,8 | -         | 19,5 | 19,7        | 15,9 | 17,3      | 17,0 | 17,7 | 122 |
| 126                                              | -    | 18,3        | 18,5 | 18,0      | 18,2 | 16,6 | 16,9 | -         | 16,8 | 17,0        | 11,8 | 12,5      | 13,6 | 14,3 | 126 |
| 130                                              | -    | 15,8        | 16,0 | 15,4      | 15,7 | 13,6 | 13,8 | -         | 14,2 | 14,5        | 8,1  | 8,3       | 10,2 | 10,6 | 130 |
| 134                                              | -    | 13,4        | 13,7 | 13,0      | 13,3 | 10,4 | 10,5 | -         | 11,9 | 12,1        | 4,7  | 4,5       | 7,2  | 7,4  | 134 |
| 135                                              | -    | 12,8        | 13,1 | 12,5      | 12,8 | 9,7  | 9,7  | -         | 11,3 | 11,6        | 3,9  | 3,7       | 6,4  | 6,6  | 135 |
| 138                                              | -    | 11,2        | 11,6 | 10,9      | 11,3 | 7,6  | 7,7  | -         | 9,7  | 10,0        | -    | -         | 4,3  | 4,4  | 138 |
| 139                                              | -    | 10,7        | 10,9 | 10,3      | 10,7 | 7,0  | 7,0  | -         | 9,2  | 9,1         | -    | -         | 3,7  | 3,7  | 139 |
| 142                                              | -    | 9,3         | 9,0  | 8,5       | 9,1  | 5,0  | 5,1  | -         | 7,7  | 6,6         | -    | -         | -    | -    | 142 |
| 144                                              | -    | 8,4         | 7,7  | 7,4       | 8,0  | 3,8  | 4,0  | -         | 6,7  | 5,0         | -    | -         | -    | -    | 144 |
| 145                                              | -    | 7,6         | 6,7  | 6,7       | 7,3  | -    | -    | -         | 5,8  | 4,0         | -    | -         | -    | -    | 145 |
| 146                                              | -    | 6,9         | 5,8  | 6,1       | 6,6  | -    | -    | -         | 5,0  | -           | -    | -         | -    | -    | 146 |
| 147                                              | -    | 6,1         | 4,8  | 5,5       | 5,9  | -    | -    | -         | 4,2  | -           | -    | -         | -    | -    | 147 |
| 148                                              | -    | 5,4         | 3,9  | 4,9       | 5,2  | -    | -    | -         | -    | -           | -    | -         | -    | -    | 148 |
| 150                                              | -    | 3,9         | -    | 3,7       | -    | -    | -    | -         | -    | -           | -    | -         | -    | -    | 150 |



0 t

65 t

95 t

125 t

165 t

205 t

265 t

325 t

LSL+LF\_10 – LSL+LF\_12:  11-21 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t



# Operation

LSL+LF

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Operação · Эксплуатация

| <div> <div>225 t + 50 t</div> <div>13-21 m</div> <div>8,40 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                                                                |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|-----|
| <div> <div>90 m</div> <div>93 m</div> <div>96 m</div> <div>99 m</div> <div>102 m</div> <div>105 m</div> </div>                                                                                                                 |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| LSL+LF_14                                                                                                                                                                                                                      |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| 18 m                                                                                                                                                                                                                           |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| <div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> </div>                                                                                                 |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| <div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div> |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| m                                                                                                                                                                                                                              | t     | t     | t    | t     | t    | t     | t     | t    | t     | t    | t     | t     | t    | t     | m   |
| 16                                                                                                                                                                                                                             | 119,0 | 120,0 | -    | 120,0 | -    | 121,0 | 121,0 | -    | -     | -    | -     | -     | -    | -     | 16  |
| 17                                                                                                                                                                                                                             | 116,0 | 116,5 | -    | 117,0 | -    | 118,0 | 118,0 | -    | 119,0 | -    | 119,0 | 120,0 | -    | 120,0 | 17  |
| 18                                                                                                                                                                                                                             | 113,0 | 113,0 | 83,0 | 114,0 | 83,5 | 115,0 | 115,0 | 84,0 | 116,0 | -    | 116,0 | 117,0 | -    | 117,0 | 18  |
| 19                                                                                                                                                                                                                             | 110,0 | 110,0 | 81,2 | 111,0 | 81,7 | 112,0 | 112,0 | 82,2 | 113,0 | 82,5 | 113,5 | 114,0 | 83,0 | 114,5 | 19  |
| 20                                                                                                                                                                                                                             | 107,0 | 107,0 | 79,5 | 108,0 | 80,0 | 109,0 | 109,0 | 80,5 | 110,0 | 81,0 | 111,0 | 111,0 | 81,5 | 112,0 | 20  |
| 22                                                                                                                                                                                                                             | 102,0 | 102,0 | 76,5 | 103,0 | 77,0 | 104,0 | 104,0 | 77,5 | 105,0 | 78,0 | 102,0 | 106,0 | 78,5 | 107,0 | 22  |
| 24                                                                                                                                                                                                                             | 97,5  | 97,5  | 73,5 | 98,5  | 74,0 | 96,5  | 99,5  | 74,5 | 100,0 | 75,0 | 92,5  | 101,0 | 75,5 | 102,0 | 24  |
| 26                                                                                                                                                                                                                             | 90,5  | 93,2  | 71,0 | 94,5  | 71,5 | 88,5  | 95,5  | 72,0 | 96,2  | 72,5 | 84,5  | 97,2  | 73,0 | 98,0  | 26  |
| 28                                                                                                                                                                                                                             | 83,5  | 89,0  | 68,5 | 90,5  | 69,0 | 80,5  | 91,5  | 69,5 | 92,5  | 70,0 | 76,5  | 93,5  | 70,5 | 94,0  | 28  |
| 30                                                                                                                                                                                                                             | 77,0  | 85,5  | 66,2 | 87,0  | 66,7 | 74,0  | 88,0  | 67,2 | 89,0  | 67,7 | 70,2  | 90,0  | 68,5 | 90,7  | 30  |
| 34                                                                                                                                                                                                                             | 65,2  | 79,0  | 62,0 | 80,5  | 62,5 | 62,2  | 81,5  | 63,2 | 82,5  | 63,7 | 59,0  | 83,5  | 64,5 | 84,5  | 34  |
| 38                                                                                                                                                                                                                             | 55,7  | 73,5  | 58,2 | 74,7  | 59,0 | 53,0  | 75,7  | 59,7 | 76,7  | 60,2 | 50,0  | 77,7  | 60,7 | 78,7  | 38  |
| 42                                                                                                                                                                                                                             | 48,1  | 68,8  | 55,1 | 69,8  | 56,0 | 45,6  | 70,8  | 56,5 | 71,8  | 57,0 | 42,7  | 72,8  | 57,5 | 73,8  | 42  |
| 46                                                                                                                                                                                                                             | 41,3  | 64,5  | 52,5 | 65,5  | 53,0 | 38,8  | 66,5  | 53,5 | 67,5  | 54,0 | 36,0  | 68,5  | 54,5 | 69,5  | 46  |
| 50                                                                                                                                                                                                                             | 34,9  | 60,8  | 50,0 | 61,8  | 50,6 | 33,0  | 62,8  | 51,1 | 63,8  | 51,6 | 30,7  | 64,8  | 52,1 | 65,8  | 50  |
| 54                                                                                                                                                                                                                             | 29,3  | 57,5  | 47,7 | 58,5  | 48,3 | 27,6  | 59,5  | 48,9 | 60,5  | 49,4 | 25,6  | 61,5  | 49,9 | 62,3  | 54  |
| 58                                                                                                                                                                                                                             | 24,4  | 54,5  | 45,6 | 55,5  | 46,2 | 22,7  | 56,5  | 46,8 | 57,5  | 47,4 | 20,8  | 58,5  | 47,9 | 59,0  | 58  |
| 62                                                                                                                                                                                                                             | 20,4  | 52,1  | 43,8 | 53,1  | 44,4 | 18,7  | 53,8  | 45,0 | 54,8  | 45,6 | 16,6  | 55,8  | 46,1 | 56,3  | 62  |
| 66                                                                                                                                                                                                                             | 16,9  | 50,0  | 42,2 | 50,9  | 42,8 | 15,1  | 51,5  | 43,3 | 52,3  | 43,9 | 13,0  | 53,3  | 44,4 | 53,8  | 66  |
| 70                                                                                                                                                                                                                             | 13,7  | 48,0  | 40,8 | 48,8  | 41,3 | 11,9  | 49,6  | 41,8 | 50,0  | 42,3 | 10,0  | 51,0  | 42,8 | 51,5  | 70  |
| 74                                                                                                                                                                                                                             | 11,0  | 46,2  | 39,5 | 46,9  | 40,0 | 9,1   | 47,7  | 40,4 | 48,3  | 40,9 | 7,0   | 49,1  | 41,4 | 49,7  | 74  |
| 78                                                                                                                                                                                                                             | 8,4   | 44,5  | 38,3 | 45,2  | 38,8 | 6,5   | 45,9  | 39,2 | 46,6  | 39,7 | 4,2   | 47,3  | 40,2 | 48,0  | 78  |
| 79                                                                                                                                                                                                                             | 7,8   | 44,1  | 38,1 | 44,8  | 38,5 | 5,9   | 45,5  | 39,0 | 46,2  | 39,4 | 3,6   | 46,9  | 39,9 | 47,6  | 79  |
| 82                                                                                                                                                                                                                             | 6,0   | 43,0  | 37,3 | 43,7  | 37,7 | 4,0   | 44,3  | 38,2 | 45,0  | 38,6 | -     | 45,7  | 39,1 | 46,4  | 82  |
| 86                                                                                                                                                                                                                             | 3,8   | 41,7  | 36,4 | 42,3  | 36,8 | -     | 42,9  | 37,2 | 43,6  | 37,6 | -     | 44,3  | 38,1 | 44,9  | 86  |
| 90                                                                                                                                                                                                                             | -     | 40,5  | 35,7 | 41,1  | 36,0 | -     | 41,7  | 36,4 | 42,3  | 36,8 | -     | 42,9  | 37,2 | 43,5  | 90  |
| 94                                                                                                                                                                                                                             | -     | 39,5  | 35,1 | 40,1  | 35,4 | -     | 40,6  | 35,7 | 41,1  | 36,0 | -     | 41,7  | 36,4 | 42,3  | 94  |
| 96                                                                                                                                                                                                                             | -     | 39,1  | -    | 39,6  | 35,1 | -     | 40,1  | 35,4 | 40,6  | 35,7 | -     | 41,2  | 36,0 | 41,7  | 96  |
| 97                                                                                                                                                                                                                             | -     | 38,9  | -    | 39,4  | -    | -     | 39,9  | 35,2 | 40,4  | 35,5 | -     | 40,9  | 35,9 | 41,5  | 97  |
| 98                                                                                                                                                                                                                             | -     | -     | -    | 39,2  | -    | -     | 39,6  | 35,1 | 40,1  | 35,4 | -     | 40,7  | 35,7 | 41,2  | 98  |
| 99                                                                                                                                                                                                                             | -     | -     | -    | 39,0  | -    | -     | 39,4  | 35,0 | 39,9  | 35,2 | -     | 40,4  | 35,5 | 40,9  | 99  |
| 100                                                                                                                                                                                                                            | -     | -     | -    | 38,8  | -    | -     | 39,2  | -    | 39,7  | 35,1 | -     | 40,2  | 35,4 | 40,7  | 100 |
| 102                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | 38,9  | -    | 39,3  | 34,9 | -     | 39,8  | 35,1 | 40,2  | 102 |
| 104                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | 38,9  | -    | -     | 39,4  | 34,9 | 39,8  | 104 |
| 105                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | 38,7  | -    | -     | 39,2  | -    | 39,6  | 105 |
| 106                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | -     | -    | -     | 39,0  | -    | 39,4  | 106 |
| 107                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | -     | -    | -     | 38,8  | -    | 39,2  | 107 |
| 110                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | -     | -    | -     | -     | -    | 38,7  | 110 |

|  |     |      |      |       |       |       |       |       |
|--|-----|------|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 95 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|--|-----|------|------|-------|-------|-------|-------|-------|



# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div> <div>225 t + 50 t</div> <div>13-21 m</div> <div>8,40 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                                                                |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|-------|------|-------|-------|------|-------|------|-------|-------|------|-------|-----|
| <div> <div>108 m</div> <div>111 m</div> <div>114 m</div> <div>117 m</div> <div>120 m</div> <div>123 m</div> </div>                                                                                                             |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| LSL+LF_14                                                                                                                                                                                                                      |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| 18 m                                                                                                                                                                                                                           |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| <div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> </div>                                                                                                 |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| <div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div> |       |       |      |       |      |       |       |      |       |      |       |       |      |       |     |
| m                                                                                                                                                                                                                              | t     | t     | t    | t     | t    | t     | t     | t    | t     | t    | t     | t     | t    | t     | m   |
| 17                                                                                                                                                                                                                             | -     | 121,0 | -    | -     | -    | -     | -     | -    | -     | -    | -     | -     | -    | -     | 17  |
| 18                                                                                                                                                                                                                             | 118,0 | 118,0 | -    | 119,0 | -    | 117,0 | 120,0 | -    | 120,0 | -    | -     | -     | -    | -     | 18  |
| 19                                                                                                                                                                                                                             | 113,5 | 115,5 | 83,5 | 116,0 | -    | 110,5 | 117,0 | -    | 117,5 | -    | 106,0 | 118,0 | -    | 119,0 | 19  |
| 20                                                                                                                                                                                                                             | 109,0 | 113,0 | 82,0 | 113,0 | 82,5 | 104,0 | 114,0 | 83,0 | 115,0 | 83,0 | 100,0 | 116,0 | 83,5 | 116,0 | 20  |
| 21                                                                                                                                                                                                                             | 103,5 | 110,5 | 80,5 | 110,5 | 81,0 | 99,0  | 111,5 | 81,5 | 112,5 | 81,7 | 95,0  | 113,5 | 82,0 | 113,5 | 21  |
| 22                                                                                                                                                                                                                             | 98,0  | 108,0 | 79,0 | 108,0 | 79,5 | 94,0  | 109,0 | 80,0 | 110,0 | 80,5 | 90,0  | 111,0 | 80,5 | 111,0 | 22  |
| 24                                                                                                                                                                                                                             | 89,0  | 103,0 | 76,5 | 104,0 | 77,0 | 85,0  | 105,0 | 77,5 | 105,0 | 77,5 | 81,5  | 106,0 | 78,0 | 107,0 | 24  |
| 26                                                                                                                                                                                                                             | 81,2  | 99,0  | 74,0 | 100,0 | 74,5 | 77,5  | 101,0 | 75,0 | 101,2 | 75,2 | 74,0  | 102,2 | 75,7 | 103,2 | 26  |
| 28                                                                                                                                                                                                                             | 73,5  | 95,0  | 71,5 | 96,0  | 72,0 | 70,0  | 97,0  | 72,5 | 97,5  | 73,0 | 66,5  | 98,5  | 73,5 | 99,5  | 28  |
| 30                                                                                                                                                                                                                             | 67,2  | 91,5  | 69,5 | 92,5  | 70,0 | 64,0  | 93,5  | 70,5 | 94,2  | 70,7 | 60,7  | 95,0  | 71,2 | 96,0  | 30  |
| 34                                                                                                                                                                                                                             | 56,2  | 85,0  | 65,5 | 86,0  | 66,0 | 53,2  | 87,0  | 66,5 | 88,0  | 66,7 | 50,3  | 88,5  | 67,2 | 89,5  | 34  |
| 38                                                                                                                                                                                                                             | 47,4  | 79,5  | 61,7 | 80,5  | 62,2 | 44,5  | 81,2  | 62,7 | 82,2  | 63,2 | 41,7  | 83,0  | 63,7 | 83,7  | 38  |
| 42                                                                                                                                                                                                                             | 40,1  | 74,8  | 58,6 | 75,6  | 59,1 | 37,2  | 76,3  | 59,6 | 77,3  | 60,1 | 34,6  | 78,1  | 60,6 | 78,8  | 42  |
| 46                                                                                                                                                                                                                             | 33,5  | 70,5  | 56,0 | 71,0  | 56,5 | 30,8  | 72,0  | 57,0 | 73,0  | 57,5 | 28,3  | 73,5  | 58,0 | 74,5  | 46  |
| 50                                                                                                                                                                                                                             | 28,3  | 66,5  | 53,3 | 67,3  | 53,8 | 25,6  | 68,3  | 54,3 | 69,0  | 54,8 | 23,2  | 69,8  | 55,3 | 70,8  | 50  |
| 54                                                                                                                                                                                                                             | 23,4  | 63,0  | 51,0 | 64,0  | 51,5 | 21,0  | 64,8  | 52,0 | 65,5  | 52,5 | 18,6  | 66,3  | 53,0 | 67,3  | 54  |
| 58                                                                                                                                                                                                                             | 19,0  | 60,0  | 49,0 | 61,0  | 49,5 | 16,8  | 61,5  | 50,0 | 62,5  | 50,5 | 14,4  | 63,0  | 51,0 | 64,0  | 58  |
| 62                                                                                                                                                                                                                             | 14,7  | 57,3  | 47,1 | 58,0  | 47,6 | 12,4  | 58,8  | 48,1 | 59,5  | 48,6 | 10,3  | 60,3  | 49,1 | 61,0  | 62  |
| 66                                                                                                                                                                                                                             | 11,0  | 54,8  | 45,4 | 55,3  | 45,9 | 8,5   | 56,3  | 46,4 | 56,8  | 46,8 | 6,5   | 57,8  | 47,3 | 58,5  | 66  |
| 69                                                                                                                                                                                                                             | 8,7   | 53,0  | 44,2 | 53,5  | 44,7 | 5,8   | 54,5  | 45,2 | 55,0  | 45,6 | 3,8   | 56,0  | 46,1 | 56,6  | 69  |
| 70                                                                                                                                                                                                                             | 8,0   | 52,5  | 43,8 | 53,0  | 44,3 | 5,0   | 54,0  | 44,8 | 54,5  | 45,2 | -     | 55,5  | 45,7 | 56,0  | 70  |
| 72                                                                                                                                                                                                                             | 6,5   | 51,5  | 43,1 | 52,0  | 43,5 | 4,2   | 53,0  | 44,0 | 53,5  | 44,5 | -     | 54,3  | 44,9 | 55,0  | 72  |
| 74                                                                                                                                                                                                                             | 5,0   | 50,6  | 42,4 | 51,0  | 42,8 | -     | 52,0  | 43,3 | 52,5  | 43,8 | -     | 53,1  | 44,2 | 54,0  | 74  |
| 76                                                                                                                                                                                                                             | 3,6   | 49,7  | 41,7 | 50,0  | 42,2 | -     | 51,0  | 42,6 | 51,5  | 43,1 | -     | 52,0  | 43,5 | 53,0  | 76  |
| 78                                                                                                                                                                                                                             | -     | 48,8  | 41,1 | 49,2  | 41,6 | -     | 50,1  | 42,0 | 50,6  | 42,4 | -     | 51,2  | 42,8 | 52,0  | 78  |
| 82                                                                                                                                                                                                                             | -     | 47,1  | 39,9 | 47,7  | 40,4 | -     | 48,4  | 40,8 | 49,0  | 41,2 | -     | 49,7  | 41,6 | 50,0  | 82  |
| 86                                                                                                                                                                                                                             | -     | 45,5  | 38,9 | 46,1  | 39,3 | -     | 46,8  | 39,7 | 47,4  | 40,1 | -     | 48,1  | 40,5 | 48,6  | 86  |
| 90                                                                                                                                                                                                                             | -     | 44,1  | 37,9 | 44,7  | 38,3 | -     | 45,3  | 38,7 | 46,0  | 39,1 | -     | 46,6  | 39,5 | 47,1  | 90  |
| 94                                                                                                                                                                                                                             | -     | 42,9  | 37,1 | 43,4  | 37,4 | -     | 44,0  | 37,8 | 44,6  | 38,1 | -     | 45,2  | 38,5 | 45,7  | 94  |
| 98                                                                                                                                                                                                                             | -     | 41,7  | 36,3 | 42,2  | 36,6 | -     | 42,8  | 37,0 | 43,4  | 37,3 | -     | 43,9  | 37,7 | 44,4  | 98  |
| 102                                                                                                                                                                                                                            | -     | 40,7  | 35,7 | 41,2  | 36,0 | -     | 41,7  | 36,2 | 42,2  | 36,5 | -     | 42,7  | 36,9 | 43,2  | 102 |
| 106                                                                                                                                                                                                                            | -     | 39,8  | 35,1 | 40,3  | 35,4 | -     | 40,7  | 35,6 | 41,2  | 35,9 | -     | 41,7  | 36,2 | 42,2  | 106 |
| 109                                                                                                                                                                                                                            | -     | 39,2  | 34,8 | 39,7  | 35,0 | -     | 40,1  | 35,2 | 40,5  | 35,5 | -     | 41,0  | 35,7 | 41,5  | 109 |
| 110                                                                                                                                                                                                                            | -     | 39,0  | -    | 39,5  | 34,9 | -     | 39,9  | 35,1 | 40,3  | 35,3 | -     | 40,7  | 35,6 | 41,2  | 110 |
| 112                                                                                                                                                                                                                            | -     | 38,7  | -    | 39,1  | 34,7 | -     | 39,5  | 34,9 | 39,9  | 35,1 | -     | 40,3  | 35,3 | 40,8  | 112 |
| 113                                                                                                                                                                                                                            | -     | 38,6  | -    | 38,9  | -    | -     | 39,3  | 34,8 | 39,6  | 35,0 | -     | 39,8  | 35,2 | 40,0  | 113 |
| 114                                                                                                                                                                                                                            | -     | -     | -    | 38,7  | -    | -     | 39,1  | 34,7 | 39,4  | 34,9 | -     | 39,3  | 35,1 | 39,2  | 114 |
| 115                                                                                                                                                                                                                            | -     | -     | -    | 38,6  | -    | -     | 38,9  | -    | 39,2  | 34,8 | -     | 38,8  | 35,0 | 38,4  | 115 |
| 117                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | 38,6  | -    | 38,7  | 34,6 | -     | 37,8  | 34,8 | 36,8  | 117 |
| 118                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | 38,5  | -    | 38,5  | -    | -     | 37,4  | 34,7 | 36,0  | 118 |
| 119                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | 37,8  | -    | -     | 36,7  | 34,6 | 35,3  | 119 |
| 120                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | 37,1  | -    | -     | 36,0  | -    | 34,6  | 120 |
| 122                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | -     | -    | -     | 34,6  | -    | 33,2  | 122 |
| 123                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | -     | -    | -     | 34,0  | -    | 32,5  | 123 |
| 126                                                                                                                                                                                                                            | -     | -     | -    | -     | -    | -     | -     | -    | -     | -    | -     | -     | -    | 30,5  | 126 |

0 t

65 t

95 t

125 t

165 t

205 t

265 t

325 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 225 t +  50 t |       |  13-21 m |      |       |      |  8,40 m |       |          |       |  9.8 m/s |      |       |      | 360°     |      | EN13000 |       |      |   |          |  |
|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|------|-------|------|------------------------------------------------------------------------------------------|-------|----------|-------|---------------------------------------------------------------------------------------------|------|-------|------|----------|------|---------|-------|------|---|----------|--|
|  126 m        |       |  129 m   |      | 132 m |      | 135 m                                                                                    |       | 138 m    |       | 141 m                                                                                       |      | 144 m |      |          |      |         |       |      |   |          |  |
| LSL+LF_14                                                                                      |       |                                                                                           |      |       |      |                                                                                          |       |          |       |                                                                                             |      |       |      |          |      |         |       |      |   |          |  |
| 18 m                                                                                           |       |                                                                                           |      |       |      |                                                                                          |       |          |       |                                                                                             |      |       |      |          |      |         |       |      |   |          |  |
|  0 t          |       | 0 t-325t                                                                                  |      |       |      | 0 t                                                                                      |       | 0 t-325t |       |                                                                                             |      | 0 t   |      | 0 t-325t |      |         |       | 0 t  |   | 0 t-325t |  |
|  15°          |       | 20°                                                                                       |      | 15°   | 20°  | 15°                                                                                      |       | 20°      | 15°   | 20°                                                                                         | 15°  |       | 20°  | 15°      | 20°  | 15°     |       | 20°  |   |          |  |
| m                                                                                              | t     | t                                                                                         | t    | t     | t    | t                                                                                        | t     | t        | t     | t                                                                                           | t    | t     | t    | t        | t    | t       | t     | t    | t |          |  |
| 19                                                                                             | 101,0 | 119,0                                                                                     | -    | 120,0 | -    | -                                                                                        | -     | -        | -     | -                                                                                           | -    | -     | -    | -        | -    | -       | -     | -    | - |          |  |
| 20                                                                                             | 95,5  | 117,0                                                                                     | -    | 118,0 | -    | 91,5                                                                                     | 118,0 | -        | 119,0 | -                                                                                           | 87,5 | 118,0 | -    | 117,0    | -    | -       | -     | -    | - |          |  |
| 21                                                                                             | 90,5  | 114,5                                                                                     | 82,5 | 115,5 | 83,0 | 86,7                                                                                     | 115,5 | 83,0     | 116,5 | -                                                                                           | 82,7 | 116,5 | -    | 117,0    | -    | 78,5    | 112,0 | -    | - |          |  |
| 22                                                                                             | 85,5  | 112,0                                                                                     | 81,0 | 113,0 | 81,5 | 82,0                                                                                     | 113,0 | 82,0     | 114,0 | 82,0                                                                                        | 78,0 | 115,0 | 82,5 | 115,0    | 82,5 | 74,5    | 112,0 | 83,0 | - |          |  |
| 24                                                                                             | 77,0  | 108,0                                                                                     | 78,5 | 108,0 | 79,0 | 73,5                                                                                     | 109,0 | 79,5     | 110,0 | 79,5                                                                                        | 69,5 | 110,0 | 80,0 | 111,0    | 80,0 | 66,5    | 112,0 | 80,5 | - |          |  |
| 26                                                                                             | 69,7  | 104,0                                                                                     | 76,2 | 104,5 | 76,7 | 66,5                                                                                     | 105,0 | 77,2     | 106,0 | 77,2                                                                                        | 62,7 | 106,5 | 77,7 | 107,0    | 78,0 | 59,7    | 108,0 | 78,2 | - |          |  |
| 28                                                                                             | 62,5  | 100,0                                                                                     | 74,0 | 101,0 | 74,5 | 59,5                                                                                     | 101,0 | 75,0     | 102,0 | 75,0                                                                                        | 56,0 | 103,0 | 75,5 | 103,0    | 76,0 | 53,0    | 104,0 | 76,0 | - |          |  |
| 30                                                                                             | 57,0  | 96,5                                                                                      | 72,0 | 97,5  | 72,5 | 54,0                                                                                     | 97,7  | 73,0     | 98,7  | 73,0                                                                                        | 50,7 | 99,5  | 73,5 | 100,0    | 74,0 | 47,7    | 100,7 | 74,0 | - |          |  |
| 34                                                                                             | 46,8  | 90,2                                                                                      | 68,2 | 91,0  | 68,5 | 44,0                                                                                     | 91,7  | 69,0     | 92,5  | 69,2                                                                                        | 40,9 | 93,2  | 69,7 | 94,0     | 70,2 | 38,1    | 94,5  | 70,2 | - |          |  |
| 38                                                                                             | 38,3  | 84,7                                                                                      | 64,7 | 85,5  | 65,0 | 35,6                                                                                     | 86,2  | 65,5     | 87,0  | 66,0                                                                                        | 32,6 | 87,7  | 66,2 | 88,5     | 66,7 | 30,0    | 89,0  | 67,0 | - |          |  |
| 42                                                                                             | 31,3  | 79,8                                                                                      | 61,5 | 80,6  | 62,0 | 28,7                                                                                     | 81,3  | 62,5     | 82,1  | 63,0                                                                                        | 25,8 | 82,8  | 63,1 | 83,6     | 63,6 | 23,3    | 84,1  | 64,0 | - |          |  |
| 46                                                                                             | 25,0  | 75,5                                                                                      | 58,5 | 76,0  | 59,0 | 22,6                                                                                     | 77,0  | 59,5     | 77,5  | 60,0                                                                                        | 19,8 | 78,5  | 60,5 | 79,0     | 61,0 | 17,3    | 79,5  | 61,0 | - |          |  |
| 50                                                                                             | 20,0  | 71,5                                                                                      | 56,1 | 72,3  | 56,6 | 17,6                                                                                     | 73,0  | 57,1     | 73,8  | 57,6                                                                                        | 14,9 | 74,5  | 57,8 | 75,0     | 58,3 | 12,5    | 75,8  | 58,6 | - |          |  |
| 54                                                                                             | 15,4  | 67,8                                                                                      | 53,8 | 68,8  | 54,3 | 13,1                                                                                     | 69,3  | 54,8     | 70,3  | 55,3                                                                                        | 10,5 | 70,8  | 55,5 | 71,3     | 56,0 | 8,1     | 72,3  | 56,5 | - |          |  |
| 58                                                                                             | 11,4  | 64,5                                                                                      | 51,5 | 65,5  | 52,0 | 9,1                                                                                      | 66,0  | 52,5     | 67,0  | 53,0                                                                                        | 6,5  | 67,5  | 53,5 | 68,0     | 54,0 | 4,1     | 69,0  | 54,5 | - |          |  |
| 61                                                                                             | 8,5   | 62,5                                                                                      | 50,3 | 63,2  | 50,7 | 6,3                                                                                      | 64,0  | 51,2     | 64,7  | 51,5                                                                                        | 3,8  | 65,5  | 52,0 | 66,1     | 52,5 | -       | 66,7  | 53,0 | - |          |  |
| 62                                                                                             | 7,5   | 61,8                                                                                      | 49,9 | 62,5  | 50,3 | 5,3                                                                                      | 63,3  | 50,8     | 64,0  | 51,0                                                                                        | -    | 64,6  | 51,5 | 65,4     | 52,0 | -       | 66,0  | 52,5 | - |          |  |
| 64                                                                                             | 5,6   | 60,5                                                                                      | 49,1 | 61,0  | 49,5 | 3,5                                                                                      | 62,0  | 50,0     | 62,5  | 50,0                                                                                        | -    | 63,0  | 50,5 | 64,0     | 51,0 | -       | 64,5  | 51,5 | - |          |  |
| 66                                                                                             | 3,7   | 59,0                                                                                      | 48,2 | 59,8  | 48,6 | -                                                                                        | 60,6  | 49,0     | 61,3  | 49,2                                                                                        | -    | 61,8  | 49,7 | 62,6     | 50,2 | -       | 63,1  | 50,6 | - |          |  |
| 70                                                                                             | -     | 57,0                                                                                      | 46,6 | 57,5  | 47,0 | -                                                                                        | 58,0  | 47,4     | 59,0  | 47,8                                                                                        | -    | 59,5  | 48,2 | 60,0     | 48,6 | -       | 60,5  | 49,0 | - |          |  |
| 74                                                                                             | -     | 54,6                                                                                      | 45,1 | 55,1  | 45,5 | -                                                                                        | 56,0  | 45,9     | 56,6  | 46,3                                                                                        | -    | 57,1  | 46,7 | 57,6     | 47,1 | -       | 58,5  | 47,5 | - |          |  |
| 78                                                                                             | -     | 52,5                                                                                      | 43,7 | 53,1  | 44,1 | -                                                                                        | 54,0  | 44,5     | 54,5  | 44,9                                                                                        | -    | 55,0  | 45,3 | 55,6     | 45,7 | -       | 56,5  | 46,1 | - |          |  |
| 82                                                                                             | -     | 50,5                                                                                      | 42,4 | 51,5  | 42,8 | -                                                                                        | 52,0  | 43,2     | 52,5  | 43,6                                                                                        | -    | 53,0  | 44,0 | 54,0     | 44,4 | -       | 54,5  | 44,7 | - |          |  |
| 86                                                                                             | -     | 49,3                                                                                      | 41,3 | 49,9  | 41,6 | -                                                                                        | 50,5  | 42,0     | 50,7  | 42,4                                                                                        | -    | 51,5  | 42,8 | 52,0     | 43,2 | -       | 52,5  | 43,5 | - |          |  |
| 90                                                                                             | -     | 47,7                                                                                      | 40,2 | 48,3  | 40,6 | -                                                                                        | 48,8  | 40,9     | 49,3  | 41,3                                                                                        | -    | 49,8  | 41,7 | 50,5     | 42,0 | -       | 51,1  | 42,3 | - |          |  |
| 94                                                                                             | -     | 46,3                                                                                      | 39,2 | 46,8  | 39,6 | -                                                                                        | 47,4  | 39,9     | 48,0  | 40,3                                                                                        | -    | 48,5  | 40,6 | 49,0     | 41,0 | -       | 49,6  | 41,3 | - |          |  |
| 98                                                                                             | -     | 45,0                                                                                      | 38,3 | 45,5  | 38,7 | -                                                                                        | 46,0  | 39,0     | 46,6  | 39,3                                                                                        | -    | 47,0  | 39,6 | 46,2     | 40,0 | -       | 45,2  | 40,3 | - |          |  |
| 102                                                                                            | -     | 43,8                                                                                      | 37,5 | 44,3  | 37,8 | -                                                                                        | 44,5  | 38,2     | 44,3  | 38,5                                                                                        | -    | 44,2  | 38,8 | 42,7     | 39,1 | -       | 41,1  | 39,2 | - |          |  |
| 106                                                                                            | -     | 42,7                                                                                      | 36,8 | 43,2  | 37,1 | -                                                                                        | 42,8  | 37,4     | 41,1  | 37,7                                                                                        | -    | 40,2  | 38,0 | 38,3     | 38,3 | -       | 37,2  | 37,9 | - |          |  |
| 110                                                                                            | -     | 41,0                                                                                      | 36,1 | 40,0  | 36,4 | -                                                                                        | 39,2  | 36,7     | 37,5  | 36,6                                                                                        | -    | 36,8  | 36,2 | 34,9     | 35,1 | -       | 33,8  | 34,4 | - |          |  |
| 114                                                                                            | -     | 38,5                                                                                      | 35,5 | 36,8  | 35,3 | -                                                                                        | 35,9  | 35,2     | 34,2  | 34,5                                                                                        | -    | 33,5  | 33,8 | 31,6     | 32,0 | -       | 30,6  | 31,1 | - |          |  |
| 118                                                                                            | -     | 35,3                                                                                      | 35,1 | 33,6  | 33,8 | -                                                                                        | 32,7  | 32,9     | 31,0  | 31,3                                                                                        | -    | 30,3  | 30,6 | 28,5     | 28,9 | -       | 27,6  | 28,0 | - |          |  |
| 122                                                                                            | -     | 32,4                                                                                      | 32,5 | 30,7  | 30,8 | -                                                                                        | 29,7  | 29,9     | 28,0  | 28,3                                                                                        | -    | 27,4  | 27,7 | 25,7     | 25,9 | -       | 24,7  | 25,0 | - |          |  |
| 124                                                                                            | -     | 31,0                                                                                      | 31,2 | 29,3  | 29,4 | -                                                                                        | 28,3  | 28,5     | 26,6  | 26,9                                                                                        | -    | 26,0  | 26,3 | 24,3     | 24,5 | -       | 23,3  | 23,6 | - |          |  |
| 126                                                                                            | -     | 29,7                                                                                      | -    | 27,9  | 28,1 | -                                                                                        | 27,0  | 27,2     | 25,3  | 25,6                                                                                        | -    | 24,7  | 25,0 | 22,9     | 23,2 | -       | 22,0  | 22,3 | - |          |  |
| 127                                                                                            | -     | 29,0                                                                                      | -    | 27,3  | 27,5 | -                                                                                        | 26,3  | 26,5     | 24,6  | 24,9                                                                                        | -    | 24,0  | 24,3 | 22,3     | 22,5 | -       | 21,4  | 21,6 | - |          |  |
| 128                                                                                            | -     | 28,4                                                                                      | -    | 26,6  | -    | -                                                                                        | 25,7  | 25,9     | 24,0  | 24,3                                                                                        | -    | 23,4  | 23,7 | 21,6     | 21,9 | -       | 20,7  | 21,0 | - |          |  |
| 129                                                                                            | -     | -                                                                                         | -    | 26,0  | -    | -                                                                                        | 25,0  | 25,3     | 23,3  | 23,6                                                                                        | -    | 22,7  | 23,0 | 21,0     | 21,2 | -       | 20,1  | 20,3 | - |          |  |
| 130                                                                                            | -     | -                                                                                         | -    | 25,4  | -    | -                                                                                        | 24,4  | -        | 22,7  | 23,0                                                                                        | -    | 22,1  | 22,4 | 20,4     | 20,6 | -       | 19,5  | 19,7 | - |          |  |
| 131                                                                                            | -     | -                                                                                         | -    | 24,9  | -    | -                                                                                        | 23,8  | -        | 22,1  | 22,4                                                                                        | -    | 21,5  | 21,8 | 19,8     | 20,0 | -       | 18,9  | 19,1 | - |          |  |
| 132                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | 23,2  | -        | 21,5  | 21,8                                                                                        | -    | 20,9  | 21,2 | 19,2     | 19,4 | -       | 18,3  | 18,5 | - |          |  |
| 133                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | 22,7  | -        | 20,9  | -                                                                                           | -    | 20,3  | 20,6 | 18,6     | 18,9 | -       | 17,7  | 17,9 | - |          |  |
| 134                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | 20,4  | -                                                                                           | -    | 19,8  | 20,0 | 18,0     | 18,3 | -       | 17,1  | 17,3 | - |          |  |
| 136                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | 19,3  | -                                                                                           | -    | 18,7  | -    | 16,9     | 17,2 | -       | 15,9  | 16,2 | - |          |  |
| 137                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | -     | -                                                                                           | -    | 18,1  | -    | 16,3     | 16,6 | -       | 15,3  | 15,6 | - |          |  |
| 138                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | -     | -                                                                                           | -    | 17,6  | -    | 15,8     | -    | -       | 14,8  | 15,1 | - |          |  |
| 139                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | -     | -                                                                                           | -    | 17,1  | -    | 15,3     | -    | -       | 14,3  | 14,6 | - |          |  |
| 141                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | -     | -                                                                                           | -    | -     | -    | 14,3     | -    | -       | 13,3  | -    | - |          |  |
| 142                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | -     | -                                                                                           | -    | -     | -    | -        | -    | -       | 12,8  | -    | - |          |  |
| 144                                                                                            | -     | -                                                                                         | -    | -     | -    | -                                                                                        | -     | -        | -     | -                                                                                           | -    | -     | -    | -        | -    | -       | 11,8  | -    | - |          |  |

|  |     |      |      |       |       |       |       |       |
|--|-----|------|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 95 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|--|-----|------|------|-------|-------|-------|-------|-------|

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 225 t +  50 t |       |  13-21 m |      |  8,40 m |      |  9.8 m/s |      | 360°                                                                                    |      | EN13000                                                                                   |      |                                                                                           |      |      |      |                                                                                     |      |     |
|------------------------------------------------------------------------------------------------|-------|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|------|------|------|-------------------------------------------------------------------------------------|------|-----|
|  147 m        |       |  150 m   |      |  153 m  |      |  156 m    |      |  159 m |      |  162 m |      |  165 m |      |      |      |                                                                                     |      |     |
| LSL+LF_14                                                                                      |       |                                                                                           |      |                                                                                          |      |                                                                                            |      |                                                                                         |      |                                                                                           |      |                                                                                           |      |      |      |                                                                                     |      |     |
| 18 m                                                                                           |       |                                                                                           |      |                                                                                          |      |                                                                                            |      |                                                                                         |      |                                                                                           |      |                                                                                           |      |      |      |                                                                                     |      |     |
|  0 t - 325 t  |       | 0 t                                                                                       |      | 0 t - 325 t                                                                              |      | 0 t                                                                                        |      | 0 t - 325 t                                                                             |      | 0 t                                                                                       |      | 0 t - 325 t                                                                               |      |      |      |                                                                                     |      |     |
|  15°          |       | 20°                                                                                       |      | 15°                                                                                      |      | 20°                                                                                        |      | 15°                                                                                     |      | 20°                                                                                       |      | 15°                                                                                       |      | 20°  |      |  |      |     |
| m                                                                                              | t     | t                                                                                         | t    | t                                                                                        | t    | t                                                                                          | t    | t                                                                                       | t    | t                                                                                         | t    | t                                                                                         | t    | t    | t    | t                                                                                   | m    |     |
| 21                                                                                             | 107,0 | -                                                                                         | 77,5 | 102,0                                                                                    | -    | 98,5                                                                                       | -    | -                                                                                       | -    | -                                                                                         | -    | -                                                                                         | -    | -    | -    | -                                                                                   | 21   |     |
| 22                                                                                             | 107,0 | -                                                                                         | 73,0 | 102,0                                                                                    | -    | 98,5                                                                                       | -    | 69,5                                                                                    | 94,5 | -                                                                                         | 90,0 | -                                                                                         | 66,0 | 87,0 | -    | 83,0                                                                                | -    | 22  |
| 23                                                                                             | 107,0 | 82,0                                                                                      | 69,2 | 102,0                                                                                    | 82,0 | 98,5                                                                                       | 82,5 | 65,7                                                                                    | 94,5 | 82,5                                                                                      | 90,0 | -                                                                                         | 62,5 | 87,0 | -    | 83,0                                                                                | -    | 23  |
| 24                                                                                             | 107,0 | 80,5                                                                                      | 65,5 | 102,0                                                                                    | 81,0 | 98,5                                                                                       | 81,0 | 62,0                                                                                    | 94,5 | 81,5                                                                                      | 90,0 | 81,5                                                                                      | 59,0 | 87,0 | 80,5 | 83,0                                                                                | 77,0 | 24  |
| 26                                                                                             | 106,0 | 78,5                                                                                      | 59,0 | 102,0                                                                                    | 78,7 | 98,5                                                                                       | 79,0 | 55,8                                                                                    | 94,5 | 79,2                                                                                      | 90,0 | 79,5                                                                                      | 52,8 | 86,7 | 79,0 | 82,5                                                                                | 76,8 | 26  |
| 28                                                                                             | 105,0 | 76,5                                                                                      | 52,5 | 102,0                                                                                    | 76,5 | 98,5                                                                                       | 77,0 | 49,6                                                                                    | 94,5 | 77,0                                                                                      | 90,0 | 77,5                                                                                      | 46,6 | 86,5 | 77,5 | 82,5                                                                                | 76,5 | 28  |
| 30                                                                                             | 101,5 | 74,5                                                                                      | 47,3 | 100,5                                                                                    | 74,7 | 98,0                                                                                       | 75,0 | 44,4                                                                                    | 94,0 | 75,2                                                                                      | 89,7 | 75,5                                                                                      | 41,6 | 86,2 | 75,7 | 82,2                                                                                | 75,5 | 30  |
| 34                                                                                             | 95,2  | 70,7                                                                                      | 37,9 | 96,0                                                                                     | 71,2 | 95,5                                                                                       | 71,2 | 35,1                                                                                    | 93,0 | 71,7                                                                                      | 89,0 | 72,0                                                                                      | 32,4 | 85,5 | 72,2 | 81,5                                                                                | 72,7 | 34  |
| 38                                                                                             | 89,7  | 67,5                                                                                      | 30,0 | 90,5                                                                                     | 67,7 | 91,0                                                                                       | 68,0 | 27,3                                                                                    | 90,7 | 68,5                                                                                      | 87,7 | 68,7                                                                                      | 24,8 | 84,5 | 69,0 | 80,5                                                                                | 69,5 | 38  |
| 42                                                                                             | 84,8  | 64,5                                                                                      | 23,4 | 85,6                                                                                     | 64,6 | 86,1                                                                                       | 65,1 | 20,9                                                                                    | 86,8 | 65,5                                                                                      | 86,0 | 65,6                                                                                      | 18,4 | 82,8 | 66,1 | 79,5                                                                                | 66,5 | 42  |
| 46                                                                                             | 80,5  | 61,5                                                                                      | 17,6 | 81,0                                                                                     | 62,0 | 81,5                                                                                       | 62,5 | 15,1                                                                                    | 82,5 | 62,5                                                                                      | 83,0 | 63,0                                                                                      | 12,7 | 80,5 | 63,5 | 77,5                                                                                | 63,5 | 46  |
| 50                                                                                             | 76,5  | 59,1                                                                                      | 12,8 | 77,0                                                                                     | 59,6 | 77,8                                                                                       | 59,8 | 10,4                                                                                    | 78,5 | 60,1                                                                                      | 79,0 | 60,6                                                                                      | 8,1  | 77,8 | 60,8 | 75,0                                                                                | 61,1 | 50  |
| 54                                                                                             | 72,9  | 56,8                                                                                      | 8,4  | 73,3                                                                                     | 57,3 | 74,2                                                                                       | 57,5 | 6,1                                                                                     | 74,7 | 58,0                                                                                      | 75,3 | 58,2                                                                                      | 3,7  | 75,0 | 58,5 | 72,6                                                                                | 59,0 | 54  |
| 56                                                                                             | 71,3  | 55,6                                                                                      | 6,5  | 71,6                                                                                     | 56,1 | 72,4                                                                                       | 56,5 | 4,1                                                                                     | 73,0 | 57,0                                                                                      | 73,6 | 57,0                                                                                      | -    | 73,7 | 57,5 | 71,3                                                                                | 58,0 | 56  |
| 58                                                                                             | 69,5  | 54,5                                                                                      | 4,6  | 70,0                                                                                     | 55,0 | 71,0                                                                                       | 55,5 | -                                                                                       | 71,5 | 56,0                                                                                      | 72,0 | 56,0                                                                                      | -    | 72,5 | 56,5 | 70,0                                                                                | 57,0 | 58  |
| 59                                                                                             | 68,7  | 54,0                                                                                      | 3,7  | 69,5                                                                                     | 54,5 | 70,2                                                                                       | 55,0 | -                                                                                       | 70,7 | 55,5                                                                                      | 71,2 | 55,5                                                                                      | -    | 71,7 | 56,0 | 69,4                                                                                | 56,5 | 59  |
| 62                                                                                             | 66,5  | 52,8                                                                                      | -    | 67,4                                                                                     | 53,0 | 68,0                                                                                       | 53,5 | -                                                                                       | 68,5 | 54,0                                                                                      | 69,0 | 54,0                                                                                      | -    | 69,5 | 54,5 | 67,6                                                                                | 55,0 | 62  |
| 66                                                                                             | 63,8  | 51,1                                                                                      | -    | 64,6                                                                                     | 51,2 | 65,1                                                                                       | 51,6 | -                                                                                       | 65,6 | 52,1                                                                                      | 66,1 | 52,1                                                                                      | -    | 66,8 | 52,7 | 65,3                                                                                | 53,2 | 66  |
| 70                                                                                             | 61,5  | 49,4                                                                                      | -    | 62,0                                                                                     | 49,8 | 62,5                                                                                       | 50,0 | -                                                                                       | 63,0 | 50,5                                                                                      | 63,5 | 50,5                                                                                      | -    | 64,5 | 51,0 | 63,0                                                                                | 51,5 | 70  |
| 74                                                                                             | 59,1  | 47,9                                                                                      | -    | 59,6                                                                                     | 48,2 | 60,1                                                                                       | 48,6 | -                                                                                       | 60,6 | 48,9                                                                                      | 61,5 | 49,3                                                                                      | -    | 61,8 | 49,6 | 60,2                                                                                | 49,9 | 74  |
| 78                                                                                             | 57,0  | 46,4                                                                                      | -    | 57,5                                                                                     | 46,8 | 58,0                                                                                       | 47,2 | -                                                                                       | 58,5 | 47,5                                                                                      | 59,3 | 47,9                                                                                      | -    | 59,1 | 48,2 | 57,7                                                                                | 48,5 | 78  |
| 82                                                                                             | 55,0  | 45,1                                                                                      | -    | 55,5                                                                                     | 45,5 | 56,0                                                                                       | 45,8 | -                                                                                       | 56,5 | 46,2                                                                                      | 57,0 | 46,5                                                                                      | -    | 56,5 | 46,8 | 55,5                                                                                | 47,2 | 82  |
| 86                                                                                             | 53,3  | 43,9                                                                                      | -    | 53,8                                                                                     | 44,2 | 54,3                                                                                       | 44,6 | -                                                                                       | 54,9 | 44,9                                                                                      | 54,8 | 45,2                                                                                      | -    | 53,3 | 45,6 | 51,3                                                                                | 45,9 | 86  |
| 90                                                                                             | 50,9  | 42,7                                                                                      | -    | 52,2                                                                                     | 43,0 | 52,5                                                                                       | 43,4 | -                                                                                       | 52,0 | 43,7                                                                                      | 50,3 | 44,0                                                                                      | -    | 49,3 | 44,4 | 47,2                                                                                | 44,7 | 90  |
| 94                                                                                             | 47,8  | 41,7                                                                                      | -    | 50,5                                                                                     | 42,0 | 49,1                                                                                       | 42,3 | -                                                                                       | 48,0 | 42,6                                                                                      | 46,1 | 42,9                                                                                      | -    | 45,1 | 43,3 | 43,1                                                                                | 43,6 | 94  |
| 98                                                                                             | 43,4  | 40,6                                                                                      | -    | 46,5                                                                                     | 41,0 | 44,7                                                                                       | 41,3 | -                                                                                       | 43,8 | 41,6                                                                                      | 41,9 | 41,9                                                                                      | -    | 41,1 | 41,7 | 39,1                                                                                | 40,5 | 98  |
| 102                                                                                            | 39,3  | 38,8                                                                                      | -    | 42,5                                                                                     | 40,1 | 40,7                                                                                       | 39,7 | -                                                                                       | 39,8 | 39,7                                                                                      | 38,0 | 39,4                                                                                      | -    | 37,2 | 38,9 | 35,3                                                                                | 37,0 | 102 |
| 106                                                                                            | 35,5  | 36,1                                                                                      | -    | 38,6                                                                                     | 39,1 | 36,9                                                                                       | 37,6 | -                                                                                       | 36,0 | 37,0                                                                                      | 34,2 | 35,5                                                                                      | -    | 33,5 | 34,9 | 31,7                                                                                | 33,1 | 106 |
| 110                                                                                            | 32,0  | 32,6                                                                                      | -    | 35,1                                                                                     | 35,7 | 33,3                                                                                       | 34,0 | -                                                                                       | 32,4 | 33,0                                                                                      | 30,6 | 31,4                                                                                      | -    | 29,9 | 30,8 | 28,2                                                                                | 29,2 | 110 |
| 114                                                                                            | 28,9  | 29,4                                                                                      | -    | 31,8                                                                                     | 32,4 | 30,1                                                                                       | 30,6 | -                                                                                       | 29,1 | 29,7                                                                                      | 27,3 | 27,9                                                                                      | -    | 26,5 | 27,2 | 24,9                                                                                | 25,3 | 114 |
| 118                                                                                            | 25,9  | 26,3                                                                                      | -    | 28,9                                                                                     | 29,3 | 27,1                                                                                       | 27,6 | -                                                                                       | 26,1 | 26,7                                                                                      | 24,3 | 24,9                                                                                      | -    | 23,4 | 24,1 | 21,7                                                                                | 22,3 | 118 |
| 122                                                                                            | 23,0  | 23,4                                                                                      | -    | 26,1                                                                                     | 26,4 | 24,3                                                                                       | 24,8 | -                                                                                       | 23,3 | 23,8                                                                                      | 21,5 | 22,1                                                                                      | -    | 20,7 | 21,3 | 18,9                                                                                | 19,5 | 122 |
| 126                                                                                            | 20,3  | 20,7                                                                                      | -    | 23,4                                                                                     | 23,7 | 21,7                                                                                       | 22,0 | -                                                                                       | 20,7 | 21,1                                                                                      | 18,9 | 19,4                                                                                      | -    | 18,1 | 18,6 | 16,4                                                                                | 16,9 | 126 |
| 130                                                                                            | 17,8  | 18,1                                                                                      | -    | 20,8                                                                                     | 21,1 | 19,1                                                                                       | 19,4 | -                                                                                       | 18,2 | 18,5                                                                                      | 16,4 | 16,8                                                                                      | -    | 15,7 | 16,1 | 14,0                                                                                | 14,4 | 130 |
| 134                                                                                            | 15,4  | 15,7                                                                                      | -    | 18,4                                                                                     | 18,7 | 16,7                                                                                       | 17,0 | -                                                                                       | 15,8 | 16,1                                                                                      | 14,1 | 14,4                                                                                      | -    | 13,3 | 13,7 | 11,1                                                                                | 11,7 | 134 |
| 138                                                                                            | 13,2  | 13,4                                                                                      | -    | 16,2                                                                                     | 16,4 | 14,5                                                                                       | 14,8 | -                                                                                       | 13,6 | 13,8                                                                                      | 11,8 | 12,2                                                                                      | -    | 10,8 | 11,1 | 7,8                                                                                 | 8,1  | 138 |
| 142                                                                                            | 11,1  | 11,3                                                                                      | -    | 14,1                                                                                     | 14,3 | 12,4                                                                                       | 12,7 | -                                                                                       | 11,5 | 11,7                                                                                      | 9,8  | 10,0                                                                                      | -    | 8,0  | 8,2  | 4,6                                                                                 | 4,7  | 142 |
| 143                                                                                            | 10,6  | -                                                                                         | -    | 13,6                                                                                     | 13,8 | 11,9                                                                                       | 12,2 | -                                                                                       | 11,0 | 11,2                                                                                      | 9,1  | 9,4                                                                                       | -    | 7,3  | 7,5  | 3,9                                                                                 | 4,0  | 143 |
| 144                                                                                            | 10,1  | -                                                                                         | -    | 13,1                                                                                     | 13,4 | 11,4                                                                                       | 11,7 | -                                                                                       | 10,5 | 10,7                                                                                      | 8,5  | 8,8                                                                                       | -    | 6,6  | 6,8  | -                                                                                   | -    | 144 |
| 146                                                                                            | 9,2   | -                                                                                         | -    | 12,1                                                                                     | -    | 10,4                                                                                       | 10,7 | -                                                                                       | 9,5  | 9,7                                                                                       | 7,2  | 7,6                                                                                       | -    | 5,2  | 5,5  | -                                                                                   | -    | 146 |
| 147                                                                                            | -     | -                                                                                         | -    | 11,7                                                                                     | -    | 9,9                                                                                        | 10,2 | -                                                                                       | 9,0  | 9,2                                                                                       | 6,5  | 7,0                                                                                       | -    | 4,5  | 4,8  | -                                                                                   | -    | 147 |
| 148                                                                                            | -     | -                                                                                         | -    | 11,2                                                                                     | -    | 9,5                                                                                        | -    | -                                                                                       | 8,6  | 8,8                                                                                       | 5,9  | 6,5                                                                                       | -    | 3,8  | 4,2  | -                                                                                   | -    | 148 |
| 149                                                                                            | -     | -                                                                                         | -    | 10,8                                                                                     | -    | 9,0                                                                                        | -    | -                                                                                       | 8,1  | 8,4                                                                                       | 5,3  | 5,9                                                                                       | -    | -    | 3,6  | -                                                                                   | -    | 149 |
| 150                                                                                            | -     | -                                                                                         | -    | -                                                                                        | -    | 8,6                                                                                        | -    | -                                                                                       | 7,7  | -                                                                                         | 4,8  | 5,3                                                                                       | -    | -    | -    | -                                                                                   | -    | 150 |
| 151                                                                                            | -     | -                                                                                         | -    | -                                                                                        | -    | 8,2                                                                                        | -    | -                                                                                       | 7,3  | -                                                                                         | 4,2  | 4,8                                                                                       | -    | -    | -    | -                                                                                   | -    | 151 |
| 152                                                                                            | -     | -                                                                                         | -    | -                                                                                        | -    | 7,8                                                                                        | -    | -                                                                                       | 6,8  | -                                                                                         | 3,7  | -                                                                                         | -    | -    | -    | -                                                                                   | -    | 152 |
| 154                                                                                            | -     | -                                                                                         | -    | -                                                                                        | -    | -                                                                                          | -    | -                                                                                       | 6,0  | -                                                                                         | -    | -                                                                                         | -    | -    | -    | -                                                                                   | -    | 154 |



0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

# Operation

LSL+LF

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| 165 t + 50 t |      |          |      | 11-21 m |      |          |      | 8,40 m |      |          |      | 9.8 m/s |      |          |      | 360°      |      |      |      | EN13000 |     |
|--------------|------|----------|------|---------|------|----------|------|--------|------|----------|------|---------|------|----------|------|-----------|------|------|------|---------|-----|
| 72 m         |      |          |      | 78 m    |      |          |      | 84 m   |      |          |      | 90 m    |      |          |      | 93 m      |      |      |      |         |     |
| LSL+LF_2     |      |          |      |         |      |          |      |        |      |          |      |         |      |          |      | LSL+LF_14 |      |      |      |         |     |
| 24 m         |      |          |      |         |      |          |      |        |      |          |      |         |      |          |      |           |      |      |      |         |     |
| 0 t          |      | 0 t-325t |      | 0 t     |      | 0 t-325t |      | 0 t    |      | 0 t-325t |      | 0 t     |      | 0 t-325t |      |           |      |      |      |         |     |
| 15°          |      | 20°      |      | 30°     |      | 15°      |      | 20°    |      | 30°      |      | 15°     |      | 20°      |      | 30°       |      | 15°  |      | 20°     |     |
| m            | t    | t        | t    | t       | t    | t        | t    | t      | t    | t        | t    | t       | t    | t        | t    | t         | t    | t    | t    | m       |     |
| 16           | 86,5 | 86,5     | -    | -       | -    | -        | -    | -      | -    | -        | -    | -       | -    | -        | -    | -         | -    | -    | -    | 16      |     |
| 17           | 84,0 | 84,0     | -    | -       | 84,5 | 85,0     | -    | -      | 85,0 | 85,5     | -    | -       | -    | -        | -    | -         | -    | -    | -    | 17      |     |
| 18           | 81,5 | 81,5     | 63,5 | -       | 82,0 | 83,0     | -    | -      | 83,0 | 83,5     | -    | -       | 83,5 | 84,0     | -    | -         | 89,0 | -    | 89,5 | -       | 18  |
| 19           | 79,2 | 79,2     | 62,0 | -       | 80,0 | 80,7     | 62,5 | -      | 81,0 | 81,5     | 63,0 | -       | 81,5 | 82,0     | -    | -         | 86,5 | -    | 87,2 | -       | 19  |
| 20           | 77,0 | 77,0     | 60,5 | -       | 78,0 | 78,5     | 61,0 | -      | 79,0 | 79,5     | 62,0 | -       | 79,5 | 80,0     | 62,5 | -         | 84,0 | 62,0 | 85,0 | -       | 20  |
| 21           | 74,7 | 74,7     | 59,0 | -       | 76,0 | 76,5     | 59,7 | -      | 77,0 | 77,5     | 60,5 | -       | 77,7 | 78,2     | 61,2 | -         | 82,0 | 60,7 | 82,7 | 61,0    | 21  |
| 22           | 72,5 | 72,5     | 57,5 | 37,9    | 74,0 | 74,5     | 58,5 | 38,1   | 75,0 | 75,5     | 59,0 | -       | 76,0 | 76,5     | 60,0 | -         | 80,0 | 59,5 | 80,5 | 59,5    | 22  |
| 23           | 70,7 | 70,7     | 56,2 | 37,3    | 72,2 | 72,5     | 57,2 | 37,5   | 73,5 | 73,7     | 57,7 | 37,6    | 74,5 | 75,0     | 58,7 | 37,7      | 78,0 | 58,2 | 78,7 | 58,5    | 23  |
| 24           | 69,0 | 69,0     | 55,0 | 36,7    | 70,5 | 70,5     | 56,0 | 36,9   | 72,0 | 72,0     | 56,5 | 37,0    | 73,0 | 73,5     | 57,5 | 37,2      | 76,0 | 57,0 | 77,0 | 57,5    | 24  |
| 26           | 65,5 | 65,5     | 52,5 | 35,6    | 67,0 | 67,0     | 53,5 | 35,8   | 69,0 | 69,0     | 54,5 | 36,0    | 70,0 | 70,0     | 55,5 | 36,2      | 72,7 | 55,0 | 73,5 | 55,5    | 26  |
| 28           | 62,5 | 62,5     | 50,5 | 34,5    | 64,0 | 64,0     | 51,5 | 34,8   | 66,0 | 66,0     | 52,5 | 35,1    | 67,5 | 67,5     | 53,5 | 35,3      | 69,5 | 53,0 | 70,0 | 53,5    | 28  |
| 30           | 59,5 | 59,5     | 48,8 | 33,5    | 61,5 | 61,5     | 49,8 | 33,9   | 63,0 | 63,0     | 50,5 | 34,1    | 64,0 | 64,5     | 51,5 | 34,4      | 66,7 | 51,2 | 67,2 | 51,7    | 30  |
| 34           | 54,8 | 54,8     | 45,4 | 31,6    | 56,8 | 56,8     | 46,4 | 32,1   | 56,3 | 58,3     | 47,3 | 32,4    | 55,0 | 59,8     | 48,3 | 32,8      | 61,5 | 47,9 | 62,2 | 48,4    | 34  |
| 38           | 50,1 | 50,7     | 42,3 | 29,9    | 51,0 | 52,6     | 43,4 | 30,4   | 49,6 | 54,1     | 44,4 | 30,8    | 47,1 | 55,6     | 45,4 | 31,2      | 57,0 | 45,0 | 58,0 | 45,5    | 38  |
| 42           | 45,4 | 47,3     | 39,6 | 28,4    | 44,2 | 48,9     | 40,8 | 28,9   | 42,9 | 50,5     | 41,8 | 29,4    | 40,5 | 52,0     | 42,7 | 29,8      | 53,3 | 42,5 | 54,1 | 42,9    | 42  |
| 46           | 39,4 | 44,3     | 37,4 | 27,1    | 38,2 | 45,9     | 38,5 | 27,6   | 37,2 | 47,4     | 39,5 | 28,1    | 35,3 | 48,8     | 40,5 | 28,5      | 50,0 | 40,2 | 50,5 | 40,6    | 46  |
| 50           | 34,2 | 41,6     | 35,4 | 25,9    | 32,8 | 43,1     | 36,4 | 26,4   | 32,0 | 44,6     | 37,4 | 26,9    | 30,3 | 46,0     | 38,4 | 27,3      | 47,2 | 38,2 | 47,8 | 38,6    | 50  |
| 54           | 29,7 | 39,2     | 33,6 | 24,9    | 28,2 | 40,6     | 34,6 | 25,4   | 27,2 | 42,1     | 35,6 | 25,9    | 25,7 | 43,4     | 36,6 | 26,3      | 44,6 | 36,3 | 45,2 | 36,8    | 54  |
| 58           | 25,9 | 37,1     | 32,0 | 24,0    | 24,4 | 38,5     | 33,0 | 24,5   | 23,4 | 39,9     | 34,0 | 24,9    | 21,8 | 41,2     | 34,9 | 25,4      | 42,2 | 34,7 | 42,8 | 35,1    | 58  |
| 62           | 22,6 | 35,2     | 30,6 | 23,2    | 21,0 | 36,6     | 31,6 | 23,7   | 19,9 | 38,0     | 32,5 | 24,1    | 18,3 | 39,2     | 33,4 | 24,6      | 40,1 | 33,3 | 40,8 | 33,7    | 62  |
| 66           | 19,6 | 33,6     | 29,4 | 22,5    | 18,0 | 34,9     | 30,3 | 22,9   | 16,9 | 36,2     | 31,2 | 23,4    | 15,3 | 37,4     | 32,1 | 23,8      | 38,2 | 31,9 | 38,9 | 32,3    | 66  |
| 70           | 17,1 | 32,2     | 28,3 | 21,9    | 15,4 | 33,4     | 29,1 | 22,3   | 14,4 | 34,6     | 30,0 | 22,7    | 12,7 | 35,8     | 30,9 | 23,1      | 36,6 | 30,7 | 37,2 | 31,1    | 70  |
| 74           | 14,8 | 30,9     | 27,3 | 21,4    | 13,1 | 32,1     | 28,1 | 21,7   | 12,1 | 33,2     | 29,0 | 22,1    | 10,4 | 34,4     | 29,8 | 22,5      | 35,1 | 29,7 | 35,6 | 30,0    | 74  |
| 76           | 13,8 | 30,3     | 26,9 | 21,2    | 12,1 | 31,5     | 27,7 | 21,5   | 11,0 | 32,6     | 28,5 | 21,9    | 9,4  | 33,7     | 29,3 | 22,2      | 34,4 | 29,2 | 34,9 | 29,5    | 76  |
| 78           | 12,8 | 29,8     | 26,5 | -       | 11,1 | 30,9     | 27,3 | 21,3   | 10,0 | 32,0     | 28,0 | 21,7    | 8,4  | 33,0     | 28,8 | 22,0      | 33,7 | 28,7 | 34,2 | 29,0    | 78  |
| 80           | 11,9 | 29,3     | 26,1 | -       | 10,2 | 30,3     | 26,9 | 21,1   | 9,1  | 31,4     | 27,6 | 21,5    | 7,5  | 32,4     | 28,3 | 21,7      | 33,1 | 28,2 | 33,6 | 28,6    | 80  |
| 82           | 11,0 | 28,8     | 25,8 | -       | 9,3  | 29,8     | 26,5 | -      | 8,2  | 30,8     | 27,2 | 21,3    | 6,6  | 31,8     | 27,9 | 21,5      | 32,5 | 27,8 | 33,0 | 28,2    | 82  |
| 84           | 10,2 | 28,4     | 25,5 | -       | 8,5  | 29,3     | 26,2 | -      | 7,4  | 30,3     | 26,8 | 21,1    | 5,7  | 31,3     | 27,5 | 21,3      | 31,9 | 27,4 | 32,4 | 27,8    | 84  |
| 85           | 9,8  | 28,2     | -    | -       | 8,1  | 29,1     | 26,0 | -      | 7,0  | 30,0     | 26,6 | 21,0    | 5,3  | 31,0     | 27,3 | 21,2      | 31,7 | 27,2 | 32,2 | 27,6    | 85  |
| 86           | 9,4  | 28,0     | -    | -       | 7,7  | 28,9     | 25,9 | -      | 6,6  | 29,8     | 26,5 | -       | 4,9  | 30,8     | 27,1 | 21,1      | 31,4 | 27,0 | 31,9 | 27,4    | 86  |
| 87           | 9,0  | 27,8     | -    | -       | 7,4  | 28,7     | 25,7 | -      | 6,2  | 29,6     | 26,3 | -       | 4,5  | 30,5     | 27,0 | 21,0      | 31,1 | 26,8 | 31,6 | 27,2    | 87  |
| 89           | -    | -        | -    | -       | 6,6  | 28,3     | 25,5 | -      | 5,4  | 29,2     | 26,0 | -       | 3,8  | 30,1     | 26,6 | 20,9      | 30,6 | 26,5 | 31,1 | 26,9    | 89  |
| 90           | -    | -        | -    | -       | 6,3  | 28,1     | -    | -      | 5,1  | 29,0     | 25,9 | -       | -    | 29,8     | 26,5 | -         | 30,4 | 26,4 | 30,9 | 26,7    | 90  |
| 92           | -    | -        | -    | -       | 5,6  | 27,8     | -    | -      | 4,4  | 28,6     | 25,6 | -       | -    | 29,4     | 26,2 | -         | 29,9 | 26,1 | 30,4 | 26,4    | 92  |
| 94           | -    | -        | -    | -       | -    | -        | -    | -      | 3,8  | 28,2     | 25,4 | -       | -    | 29,0     | 25,9 | -         | 29,5 | 25,9 | 30,0 | 26,1    | 94  |
| 95           | -    | -        | -    | -       | -    | -        | -    | -      | 3,5  | 28,0     | -    | -       | -    | 28,8     | 25,7 | -         | 29,3 | 25,7 | 29,8 | 25,9    | 95  |
| 98           | -    | -        | -    | -       | -    | -        | -    | -      | -    | 27,6     | -    | -       | -    | 28,3     | 25,4 | -         | 28,8 | 25,4 | 29,2 | 25,6    | 98  |
| 99           | -    | -        | -    | -       | -    | -        | -    | -      | -    | -        | -    | -       | -    | 28,1     | 25,3 | -         | 28,6 | 25,3 | 29,0 | 25,5    | 99  |
| 102          | -    | -        | -    | -       | -    | -        | -    | -      | -    | -        | -    | -       | -    | 27,7     | -    | -         | 28,1 | -    | 28,5 | 25,2    | 102 |
| 103          | -    | -        | -    | -       | -    | -        | -    | -      | -    | -        | -    | -       | -    | 27,5     | -    | -         | 28,0 | -    | 28,3 | -       | 103 |
| 105          | -    | -        | -    | -       | -    | -        | -    | -      | -    | -        | -    | -       | -    | -        | -    | -         | -    | -    | 28,1 | -       | 105 |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2: 11-19 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t

# Operation

LSL+LF

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| 165 t + 50 t |      |             |      |      |      |           |      |      |      |      |      |          |   |      |      |             |      |      |      |           |      |     |   | 11-21 m  |   |     |   | 8,40 m    |     |     |  | 9.8 m/s |  |  |  | 360° |  |  |  | EN13000 |  |
|--------------|------|-------------|------|------|------|-----------|------|------|------|------|------|----------|---|------|------|-------------|------|------|------|-----------|------|-----|---|----------|---|-----|---|-----------|-----|-----|--|---------|--|--|--|------|--|--|--|---------|--|
| 96 m         |      |             |      |      |      |           |      |      |      |      |      | 99 m     |   |      |      | 102 m       |      |      |      |           |      |     |   | 105 m    |   |     |   |           |     |     |  |         |  |  |  |      |  |  |  |         |  |
| LSL+LF_2     |      |             |      |      |      | LSL+LF_14 |      |      |      |      |      | LSL+LF_2 |   |      |      | LSL+LF_4    |      |      |      | LSL+LF_14 |      |     |   | LSL+LF_4 |   |     |   | LSL+LF_14 |     |     |  |         |  |  |  |      |  |  |  |         |  |
| 24 m         |      |             |      |      |      |           |      |      |      |      |      |          |   |      |      |             |      |      |      |           |      |     |   |          |   |     |   |           |     |     |  |         |  |  |  |      |  |  |  |         |  |
| 0 t          |      | 0 t - 325 t |      |      |      |           |      |      |      |      |      |          |   | 0 t  |      | 0 t - 325 t |      |      |      |           |      |     |   |          |   |     |   |           |     |     |  |         |  |  |  |      |  |  |  |         |  |
| 15°          |      | 20°         |      | 30°  |      | 15°       |      | 20°  |      | 15°  |      | 20°      |   | 15°  |      | 20°         |      | 30°  |      | 15°       |      | 20° |   | 15°      |   | 20° |   | 15°       |     | 20° |  |         |  |  |  |      |  |  |  |         |  |
| m            | t    | t           | t    | t    | t    | t         | t    | t    | t    | t    | t    | t        | t | t    | t    | t           | t    | t    | t    | t         | t    | t   | t | t        | t | t   | t | t         | m   |     |  |         |  |  |  |      |  |  |  |         |  |
| 18           | 83,5 | 84,0        | -    | -    | -    | -         | -    | -    | -    | -    | -    | -        | - | -    | -    | -           | -    | -    | -    | -         | -    | -   | - | -        | - | -   | - | -         | 18  |     |  |         |  |  |  |      |  |  |  |         |  |
| 19           | 81,7 | 82,2        | -    | -    | -    | 87,5      | -    | 88,0 | -    | 82,0 | 83,0 | -        | - | -    | -    | 88,5        | -    | -    | -    | -         | 89,5 | -   | - | -        | - | -   | - | -         | 19  |     |  |         |  |  |  |      |  |  |  |         |  |
| 20           | 80,0 | 80,5        | 62,5 | -    | 85,5 | -         | 86,0 | -    | 80,5 | 81,0 | -    | -        | - | -    | -    | 86,5        | -    | -    | -    | -         | 87,0 | -   | - | -        | - | -   | - | -         | 20  |     |  |         |  |  |  |      |  |  |  |         |  |
| 21           | 78,2 | 78,7        | 61,5 | -    | 83,5 | 61,0      | 84,0 | 61,5 | 79,0 | 79,5 | 62,0 | -        | - | -    | 57,0 | 84,5        | 61,5 | -    | 57,0 | 85,0      | -    | -   | - | -        | - | -   | - | -         | 21  |     |  |         |  |  |  |      |  |  |  |         |  |
| 22           | 76,5 | 77,0        | 60,5 | -    | 81,5 | 60,0      | 82,0 | 60,0 | 77,5 | 78,0 | 61,0 | -        | - | -    | 56,0 | 82,5        | 60,5 | -    | 56,0 | 83,0      | 61,0 | -   | - | -        | - | -   | - | -         | 22  |     |  |         |  |  |  |      |  |  |  |         |  |
| 24           | 73,5 | 74,0        | 58,0 | 37,2 | 77,5 | 57,5      | 78,0 | 58,0 | 74,5 | 75,0 | 59,0 | 37,3     | - | 54,0 | 79,0 | 58,5        | -    | 54,5 | 79,5 | 58,5      | -    | -   | - | -        | - | -   | - | -         | 24  |     |  |         |  |  |  |      |  |  |  |         |  |
| 26           | 70,5 | 71,0        | 56,0 | 36,2 | 74,2 | 55,5      | 74,7 | 56,0 | 70,5 | 72,0 | 57,0 | 36,4     | - | 52,5 | 75,7 | 56,5        | -    | 52,5 | 76,2 | 56,5      | -    | -   | - | -        | - | -   | - | -         | 26  |     |  |         |  |  |  |      |  |  |  |         |  |
| 28           | 67,5 | 68,5        | 54,0 | 35,3 | 71,0 | 53,5      | 71,5 | 54,0 | 64,5 | 69,5 | 55,0 | 35,5     | - | 50,5 | 72,5 | 54,5        | -    | 51,0 | 73,0 | 54,5      | -    | -   | - | -        | - | -   | - | -         | 28  |     |  |         |  |  |  |      |  |  |  |         |  |
| 30           | 62,0 | 66,0        | 52,5 | 34,5 | 68,2 | 51,7      | 68,7 | 52,2 | 59,0 | 67,0 | 53,0 | 34,7     | - | 49,3 | 69,7 | 52,7        | -    | 49,6 | 70,2 | 53,0      | -    | -   | - | -        | - | -   | - | -         | 30  |     |  |         |  |  |  |      |  |  |  |         |  |
| 34           | 53,2 | 61,3        | 49,3 | 32,9 | 63,0 | 48,6      | 63,7 | 49,1 | 50,6 | 62,3 | 50,0 | 33,2     | - | 46,4 | 64,5 | 49,5        | -    | 46,8 | 65,0 | 49,9      | -    | -   | - | -        | - | -   | - | -         | 34  |     |  |         |  |  |  |      |  |  |  |         |  |
| 38           | 45,6 | 57,0        | 46,3 | 31,5 | 58,5 | 45,9      | 59,2 | 46,3 | 43,1 | 58,1 | 47,1 | 31,8     | - | 43,9 | 60,0 | 46,7        | -    | 44,2 | 60,5 | 47,1      | -    | -   | - | -        | - | -   | - | -         | 38  |     |  |         |  |  |  |      |  |  |  |         |  |
| 42           | 39,0 | 53,0        | 43,7 | 30,2 | 54,8 | 43,4      | 55,3 | 43,8 | 36,7 | 54,5 | 44,5 | 30,5     | - | 41,7 | 56,1 | 44,2        | -    | 42,0 | 56,8 | 44,6      | -    | -   | - | -        | - | -   | - | -         | 42  |     |  |         |  |  |  |      |  |  |  |         |  |
| 46           | 33,8 | 50,1        | 41,4 | 28,9 | 51,5 | 41,1      | 52,0 | 41,5 | 31,6 | 51,5 | 42,3 | 29,3     | - | 39,7 | 52,5 | 41,9        | -    | 40,0 | 53,5 | 42,3      | -    | -   | - | -        | - | -   | - | -         | 46  |     |  |         |  |  |  |      |  |  |  |         |  |
| 50           | 29,1 | 47,4        | 39,3 | 27,7 | 48,5 | 39,1      | 49,2 | 39,5 | 27,0 | 48,6 | 40,2 | 28,1     | - | 37,8 | 49,8 | 39,9        | -    | 38,2 | 50,5 | 40,3      | -    | -   | - | -        | - | -   | - | -         | 50  |     |  |         |  |  |  |      |  |  |  |         |  |
| 54           | 24,9 | 44,8        | 37,4 | 26,7 | 45,9 | 37,2      | 46,5 | 37,6 | 23,0 | 46,0 | 38,3 | 27,1     | - | 36,1 | 47,2 | 38,0        | -    | 36,5 | 47,8 | 38,4      | -    | -   | - | -        | - | -   | - | -         | 54  |     |  |         |  |  |  |      |  |  |  |         |  |
| 58           | 21,0 | 42,5        | 35,8 | 25,8 | 43,5 | 35,6      | 44,1 | 36,0 | 19,3 | 43,8 | 36,6 | 26,1     | - | 34,5 | 44,8 | 36,4        | -    | 34,9 | 45,4 | 36,8      | -    | -   | - | -        | - | -   | - | -         | 58  |     |  |         |  |  |  |      |  |  |  |         |  |
| 62           | 17,5 | 40,4        | 34,3 | 25,0 | 41,4 | 34,1      | 42,0 | 34,5 | 15,9 | 41,7 | 35,1 | 25,3     | - | 33,1 | 42,6 | 34,9        | -    | 33,5 | 43,2 | 35,3      | -    | -   | - | -        | - | -   | - | -         | 62  |     |  |         |  |  |  |      |  |  |  |         |  |
| 66           | 14,5 | 38,6        | 32,9 | 24,2 | 39,5 | 32,7      | 40,1 | 33,1 | 12,9 | 39,8 | 33,7 | 24,6     | - | 31,7 | 40,7 | 33,5        | -    | 32,2 | 41,3 | 33,9      | -    | -   | - | -        | - | -   | - | -         | 66  |     |  |         |  |  |  |      |  |  |  |         |  |
| 70           | 11,9 | 37,0        | 31,7 | 23,5 | 37,8 | 31,5      | 38,3 | 31,9 | 10,3 | 38,1 | 32,5 | 23,8     | - | 30,5 | 38,9 | 32,3        | -    | 31,0 | 39,5 | 32,7      | -    | -   | - | -        | - | -   | - | -         | 70  |     |  |         |  |  |  |      |  |  |  |         |  |
| 74           | 9,6  | 35,5        | 30,5 | 22,9 | 36,2 | 30,4      | 36,7 | 30,8 | 7,9  | 36,5 | 31,3 | 23,2     | - | 29,5 | 37,3 | 31,1        | -    | 29,9 | 37,9 | 31,5      | -    | -   | - | -        | - | -   | - | -         | 74  |     |  |         |  |  |  |      |  |  |  |         |  |
| 78           | 7,5  | 34,1        | 29,5 | 22,3 | 34,8 | 29,4      | 35,3 | 29,8 | 5,9  | 35,1 | 30,3 | 22,7     | - | 28,6 | 35,9 | 30,1        | -    | 29,0 | 36,4 | 30,5      | -    | -   | - | -        | - | -   | - | -         | 78  |     |  |         |  |  |  |      |  |  |  |         |  |
| 82           | 5,7  | 32,9        | 28,6 | 21,8 | 33,5 | 28,5      | 34,0 | 28,9 | 4,0  | 33,9 | 29,3 | 22,1     | - | 27,8 | 34,6 | 29,2        | -    | 28,1 | 35,1 | 29,5      | -    | -   | - | -        | - | -   | - | -         | 82  |     |  |         |  |  |  |      |  |  |  |         |  |
| 83           | 5,2  | 32,6        | 28,4 | 21,7 | 33,2 | 28,3      | 33,7 | 28,6 | 3,6  | 33,6 | 29,1 | 22,0     | - | 27,6 | 34,3 | 29,0        | -    | 27,9 | 34,8 | 29,3      | -    | -   | - | -        | - | -   | - | -         | 83  |     |  |         |  |  |  |      |  |  |  |         |  |
| 86           | 4,0  | 31,8        | 27,8 | 21,4 | 32,4 | 27,7      | 32,8 | 28,0 | -    | 32,7 | 28,5 | 21,7     | - | 27,0 | 33,4 | 28,4        | -    | 27,3 | 33,9 | 28,7      | -    | -   | - | -        | - | -   | - | -         | 86  |     |  |         |  |  |  |      |  |  |  |         |  |
| 87           | 3,6  | 31,5        | 27,6 | 21,3 | 32,1 | 27,5      | 32,5 | 27,8 | -    | 32,5 | 28,3 | 21,6     | - | 26,8 | 33,1 | 28,2        | -    | 27,1 | 33,6 | 28,5      | -    | -   | - | -        | - | -   | - | -         | 87  |     |  |         |  |  |  |      |  |  |  |         |  |
| 90           | -    | 30,8        | 27,1 | 21,1 | 31,3 | 27,0      | 31,8 | 27,3 | -    | 31,7 | 27,7 | 21,3     | - | 26,2 | 32,3 | 27,6        | -    | 26,6 | 32,7 | 27,9      | -    | -   | - | -        | - | -   | - | -         | 90  |     |  |         |  |  |  |      |  |  |  |         |  |
| 93           | -    | 30,1        | 26,6 | 20,8 | 30,6 | 26,5      | 31,1 | 26,8 | -    | 31,0 | 27,2 | 21,0     | - | 25,7 | 31,5 | 27,0        | -    | 26,1 | 31,9 | 27,3      | -    | -   | - | -        | - | -   | - | -         | 93  |     |  |         |  |  |  |      |  |  |  |         |  |
| 94           | -    | 29,8        | 26,4 | -    | 30,4 | 26,4      | 30,9 | 26,7 | -    | 30,7 | 27,0 | 20,9     | - | 25,6 | 31,3 | 26,9        | -    | 25,9 | 31,7 | 27,2      | -    | -   | - | -        | - | -   | - | -         | 94  |     |  |         |  |  |  |      |  |  |  |         |  |
| 98           | -    | 29,0        | 25,8 | -    | 29,6 | 25,8      | 30,0 | 26,1 | -    | 29,9 | 26,4 | 20,7     | - | 25,0 | 30,4 | 26,3        | -    | 25,3 | 30,8 | 26,6      | -    | -   | - | -        | - | -   | - | -         | 98  |     |  |         |  |  |  |      |  |  |  |         |  |
| 102          | -    | 28,3        | 25,4 | -    | 28,9 | 25,4      | 29,2 | 25,6 | -    | 29,1 | 25,9 | -        | - | 24,5 | 29,6 | 25,8        | -    | 24,8 | 30,0 | 26,0      | -    | -   | - | -        | - | -   | - | -         | 102 |     |  |         |  |  |  |      |  |  |  |         |  |
| 105          | -    | 27,9        | 25,1 | -    | 28,4 | 25,1      | 28,7 | 25,3 | -    | 28,6 | 25,5 | -        | - | 24,1 | 29,1 | 25,5        | -    | 24,4 | 29,5 | 25,7      | -    | -   | - | -        | - | -   | - | -         | 105 |     |  |         |  |  |  |      |  |  |  |         |  |
| 106          | -    | 27,7        | -    | -    | 28,3 | -         | 28,6 | 25,2 | -    | 28,4 | 25,4 | -        | - | 24,0 | 28,9 | 25,4        | -    | 24,3 | 29,3 | 25,6      | -    | -   | - | -        | - | -   | - | -         | 106 |     |  |         |  |  |  |      |  |  |  |         |  |
| 107          | -    | 27,6        | -    | -    | 28,1 | -         | 28,4 | 25,1 | -    | 28,2 | 25,3 | -        | - | 23,9 | 28,7 | 25,3        | -    | 24,2 | 29,1 | 25,5      | -    | -   | - | -        | - | -   | - | -         | 107 |     |  |         |  |  |  |      |  |  |  |         |  |
| 108          | -    | 27,5        | -    | -    | 28,0 | -         | 28,3 | -    | -    | 28,1 | 25,2 | -        | - | 23,8 | 28,6 | 25,2        | -    | 24,1 | 29,0 | 25,4      | -    | -   | - | -        | - | -   | - | -         | 108 |     |  |         |  |  |  |      |  |  |  |         |  |
| 110          | -    | -           | -    | -    | -    | -         | 28,0 | -    | -    | 27,8 | 25,0 | -        | - | 22,3 | 28,3 | 25,0        | -    | 23,9 | 28,7 | 25,2      | -    | -   | - | -        | - | -   | - | -         | 110 |     |  |         |  |  |  |      |  |  |  |         |  |
| 111          | -    | -           | -    | -    | -    | -         | 27,9 | -    | -    | 27,7 | -    | -        | - | -    | 28,2 | -           | -    | 23,8 | 28,5 | 25,1      | -    | -   | - | -        | - | -   | - | -         | 111 |     |  |         |  |  |  |      |  |  |  |         |  |
| 112          | -    | -           | -    | -    | -    | -         | -    | -    | -    | 27,5 | -    | -        | - | -    | 28,1 | -           | -    | 23,7 | 28,4 | 25,0      | -    | -   | - | -        | - | -   | - | -         | 112 |     |  |         |  |  |  |      |  |  |  |         |  |
| 113          | -    | -           | -    | -    | -    | -         | -    | -    | -    | 27,4 | -    | -        | - | -    | 27,9 | -           | -    | -    | -    | 28,2      | -    | -   | - | -        | - | -   | - | -         | 113 |     |  |         |  |  |  |      |  |  |  |         |  |
| 114          | -    | -           | -    | -    | -    | -         | -    | -    | -    | -    | -    | -        | - | -    | -    | -           | -    | -    | 28,1 | -         | -    | -   | - | -        | - | -   | - | -         | 114 |     |  |         |  |  |  |      |  |  |  |         |  |
| 116          | -    | -           | -    | -    | -    | -         | -    | -    | -    | -    | -    | -        | - | -    | -    | -           | -    | -    | 27,9 | -         | -    | -   | - | -        | - | -   | - | -         | 116 |     |  |         |  |  |  |      |  |  |  |         |  |



# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t |      | 11-21 m     |      |          |   | 8,40 m    |      |          |   | 9.8 m/s   |      |          |      | 360° |      |             |   | EN13000   |      |      |     |     |  |
|--------------|------|-------------|------|----------|---|-----------|------|----------|---|-----------|------|----------|------|------|------|-------------|---|-----------|------|------|-----|-----|--|
| 108 m        |      |             |      |          |   |           |      |          |   |           |      | 111 m    |      |      |      | 114 m       |   |           |      |      |     |     |  |
| LSL+LF_2     |      |             |      | LSL+LF_4 |   | LSL+LF_14 |      | LSL+LF_4 |   | LSL+LF_14 |      | LSL+LF_2 |      |      |      | LSL+LF_4    |   | LSL+LF_14 |      |      |     |     |  |
| 24 m         |      |             |      |          |   |           |      |          |   |           |      |          |      |      |      |             |   |           |      |      |     |     |  |
| 0 t          |      | 0 t - 325 t |      |          |   |           |      |          |   |           |      |          |      | 0 t  |      | 0 t - 325 t |   |           |      |      |     |     |  |
| 15°          |      | 20°         |      | 30°      |   | 15°       |      | 20°      |   | 15°       |      | 20°      |      | 15°  |      | 20°         |   | 30°       |      | 15°  |     | 20° |  |
| m            | t    | t           | t    | t        | t | t         | t    | t        | t | t         | t    | t        | t    | t    | t    | t           | t | t         | t    | t    | t   | m   |  |
| 19           | 80,0 | 82,5        | -    | -        | - | -         | -    | -        | - | -         | -    | -        | -    | -    | -    | -           | - | -         | -    | -    | -   | 19  |  |
| 20           | 79,5 | 81,0        | -    | -        | - | -         | -    | 87,5     | - | -         | -    | 88,0     | -    | 77,5 | 80,0 | -           | - | -         | -    | 88,0 | -   | 20  |  |
| 21           | 78,7 | 79,7        | 62,0 | -        | - | 57,5      | 85,5 | -        | - | -         | 86,0 | -        | 77,2 | 79,5 | -    | -           | - | -         | 86,2 | -    | 21  |     |  |
| 22           | 78,0 | 78,5        | 61,0 | -        | - | 56,5      | 83,5 | 61,0     | - | 56,5      | 84,0 | 61,0     | 77,0 | 79,0 | 61,5 | -           | - | 56,5      | 84,5 | 61,5 | 22  |     |  |
| 24           | 74,0 | 76,0        | 59,0 | -        | - | 54,5      | 80,0 | 59,0     | - | 55,0      | 80,5 | 59,0     | 71,0 | 76,5 | 59,5 | -           | - | 55,0      | 81,0 | 59,5 | 24  |     |  |
| 25           | 70,7 | 74,5        | 58,2 | 36,9     | - | 53,7      | 78,3 | 58,0     | - | 54,0      | 78,8 | 58,1     | 67,7 | 75,2 | 58,5 | -           | - | 54,0      | 79,5 | 58,5 | 25  |     |  |
| 26           | 67,5 | 73,0        | 57,5 | 36,5     | - | 53,0      | 76,7 | 57,0     | - | 53,0      | 77,2 | 57,2     | 64,5 | 74,0 | 57,5 | 36,6        | - | 53,0      | 78,0 | 57,5 | 26  |     |  |
| 28           | 61,5 | 70,5        | 55,5 | 35,7     | - | 51,0      | 73,5 | 55,0     | - | 51,5      | 74,0 | 55,5     | 58,5 | 71,5 | 56,0 | 35,8        | - | 51,5      | 75,0 | 55,5 | 28  |     |  |
| 30           | 56,0 | 68,0        | 54,0 | 34,9     | - | 49,9      | 70,7 | 53,2     | - | 50,0      | 71,5 | 53,7     | 53,5 | 69,0 | 54,5 | 35,0        | - | 50,0      | 72,2 | 54,0 | 30  |     |  |
| 34           | 47,8 | 63,6        | 50,8 | 33,4     | - | 47,1      | 65,7 | 50,1     | - | 47,4      | 66,5 | 50,6     | 45,3 | 64,6 | 51,5 | 33,6        | - | 47,6      | 67,0 | 51,0 | 34  |     |  |
| 38           | 40,5 | 59,6        | 47,9 | 32,0     | - | 44,6      | 61,5 | 47,4     | - | 45,0      | 62,0 | 47,8     | 38,0 | 60,6 | 48,7 | 32,3        | - | 45,3      | 62,5 | 48,2 | 38  |     |  |
| 42           | 34,1 | 56,0        | 45,3 | 30,8     | - | 42,4      | 57,6 | 44,9     | - | 42,7      | 58,1 | 45,3     | 31,7 | 57,0 | 46,1 | 31,1        | - | 43,1      | 58,6 | 45,7 | 42  |     |  |
| 46           | 29,1 | 52,6        | 43,1 | 29,6     | - | 40,4      | 54,0 | 42,7     | - | 40,8      | 54,5 | 43,0     | 26,8 | 53,6 | 43,8 | 29,9        | - | 41,2      | 55,0 | 43,4 | 46  |     |  |
| 50           | 24,6 | 49,7        | 41,0 | 28,5     | - | 38,6      | 51,1 | 40,7     | - | 39,0      | 51,5 | 41,0     | 22,4 | 50,8 | 41,7 | 28,8        | - | 39,4      | 52,3 | 41,4 | 50  |     |  |
| 54           | 20,6 | 47,2        | 39,1 | 27,5     | - | 36,9      | 48,4 | 38,8     | - | 37,4      | 48,8 | 39,2     | 18,4 | 48,4 | 39,9 | 27,8        | - | 37,8      | 49,7 | 39,5 | 54  |     |  |
| 58           | 17,3 | 44,9        | 37,4 | 26,5     | - | 35,3      | 46,0 | 37,1     | - | 35,8      | 46,6 | 37,5     | 15,2 | 46,0 | 38,2 | 26,8        | - | 36,2      | 47,2 | 37,9 | 58  |     |  |
| 62           | 14,1 | 42,8        | 35,9 | 25,7     | - | 33,9      | 43,8 | 35,6     | - | 34,4      | 44,4 | 36,0     | 12,2 | 43,9 | 36,6 | 26,0        | - | 34,8      | 45,0 | 36,4 | 62  |     |  |
| 66           | 11,0 | 40,9        | 34,5 | 24,9     | - | 32,6      | 41,8 | 34,2     | - | 33,0      | 42,4 | 34,6     | 9,4  | 42,0 | 35,2 | 25,2        | - | 33,4      | 42,9 | 35,0 | 66  |     |  |
| 70           | 8,4  | 39,2        | 33,2 | 24,2     | - | 31,4      | 40,0 | 33,0     | - | 31,8      | 40,6 | 33,4     | 6,8  | 40,2 | 33,9 | 24,5        | - | 32,2      | 41,1 | 33,7 | 70  |     |  |
| 74           | 6,1  | 37,6        | 32,0 | 23,6     | - | 30,3      | 38,4 | 31,8     | - | 30,7      | 39,0 | 32,2     | 4,3  | 38,6 | 32,8 | 23,9        | - | 31,0      | 39,5 | 32,5 | 74  |     |  |
| 75           | 5,6  | 37,3        | 31,8 | 23,4     | - | 30,0      | 38,0 | 31,5     | - | 30,4      | 38,6 | 31,9     | 3,8  | 38,2 | 32,5 | 23,7        | - | 30,8      | 39,1 | 32,2 | 75  |     |  |
| 78           | 4,0  | 36,2        | 31,0 | 23,0     | - | 29,3      | 36,9 | 30,8     | - | 29,7      | 37,4 | 31,1     | -    | 37,1 | 31,7 | 23,3        | - | 30,0      | 38,0 | 31,5 | 78  |     |  |
| 82           | -    | 34,8        | 30,0 | 22,4     | - | 28,5      | 35,6 | 29,9     | - | 28,8      | 36,1 | 30,2     | -    | 35,8 | 30,7 | 22,7        | - | 29,1      | 36,6 | 30,5 | 82  |     |  |
| 86           | -    | 33,6        | 29,1 | 22,0     | - | 27,7      | 34,4 | 29,0     | - | 28,0      | 34,8 | 29,3     | -    | 34,6 | 29,7 | 22,2        | - | 28,3      | 35,3 | 29,6 | 86  |     |  |
| 90           | -    | 32,6        | 28,3 | 21,6     | - | 26,9      | 33,2 | 28,2     | - | 27,2      | 33,6 | 28,5     | -    | 33,4 | 28,9 | 21,8        | - | 27,6      | 34,1 | 28,8 | 90  |     |  |
| 94           | -    | 31,6        | 27,6 | 21,2     | - | 26,2      | 32,2 | 27,5     | - | 26,5      | 32,6 | 27,8     | -    | 32,4 | 28,2 | 21,4        | - | 26,8      | 33,1 | 28,1 | 94  |     |  |
| 98           | -    | 30,6        | 26,9 | 20,8     | - | 25,6      | 31,2 | 26,9     | - | 25,9      | 31,7 | 27,1     | -    | 31,4 | 27,5 | 21,0        | - | 26,2      | 32,1 | 27,4 | 98  |     |  |
| 102          | -    | 29,8        | 26,3 | 20,6     | - | 25,0      | 30,4 | 26,3     | - | 25,3      | 30,8 | 26,5     | -    | 30,6 | 26,9 | 20,8        | - | 25,6      | 31,2 | 26,8 | 102 |     |  |
| 106          | -    | 29,1        | 25,8 | -        | - | 24,5      | 29,6 | 25,8     | - | 24,8      | 30,0 | 26,0     | -    | 29,8 | 26,3 | 20,5        | - | 25,0      | 30,4 | 26,2 | 106 |     |  |
| 107          | -    | 28,9        | 25,7 | -        | - | 24,4      | 29,5 | 25,7     | - | 24,6      | 29,8 | 25,9     | -    | 29,6 | 26,1 | 20,5        | - | 24,9      | 30,2 | 26,1 | 107 |     |  |
| 110          | -    | 28,5        | 25,4 | -        | - | 24,1      | 29,0 | 25,4     | - | 24,3      | 29,3 | 25,6     | -    | 29,1 | 25,8 | -           | - | 24,5      | 29,7 | 25,8 | 110 |     |  |
| 114          | -    | 27,9        | 25,0 | -        | - | 23,7      | 28,4 | 25,0     | - | 23,9      | 28,7 | 25,2     | -    | 28,5 | 25,4 | -           | - | 24,1      | 29,0 | 25,4 | 114 |     |  |
| 115          | -    | 27,7        | 25,0 | -        | - | 22,6      | 28,3 | 25,0     | - | 23,8      | 28,6 | 25,1     | -    | 28,3 | 25,3 | -           | - | 24,0      | 28,8 | 25,3 | 115 |     |  |
| 117          | -    | 27,5        | -    | -        | - | -         | 28,0 | -        | - | 23,6      | 28,3 | 25,0     | -    | 28,1 | 25,1 | -           | - | 23,8      | 28,6 | 25,1 | 117 |     |  |
| 118          | -    | 27,4        | -    | -        | - | -         | 27,9 | -        | - | -         | 28,2 | 24,9     | -    | 27,9 | 25,0 | -           | - | 23,7      | 28,4 | 25,0 | 118 |     |  |
| 120          | -    | -           | -    | -        | - | -         | -    | -        | - | -         | 27,9 | -        | -    | 27,7 | 24,9 | -           | - | 22,0      | 28,2 | 24,9 | 120 |     |  |
| 121          | -    | -           | -    | -        | - | -         | -    | -        | - | -         | 27,8 | -        | -    | 27,5 | -    | -           | - | -         | 28,0 | -    | 121 |     |  |
| 122          | -    | -           | -    | -        | - | -         | -    | -        | - | -         | -    | -        | -    | 27,4 | -    | -           | - | -         | 27,9 | -    | 122 |     |  |
| 124          | -    | -           | -    | -        | - | -         | -    | -        | - | -         | -    | -        | -    | 27,2 | -    | -           | - | -         | 27,7 | -    | 124 |     |  |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_4: 11-19 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000 |   |      |      |      |      |      |      |      |   |      |      |      |   |      |      |      |     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|------|------|------|------|------|------|------|---|------|------|------|---|------|------|------|-----|
|  117 m  120 m  123 m                                                                                                                                                                                                                       |   |      |      |      |      |      |      |      |   |      |      |      |   |      |      |      |     |
| LSL+LF_4 LSL+LF_14 LSL+LF_2 LSL+LF_4 LSL+LF_14 LSL+LF_4 LSL+LF_14                                                                                                                                                                                                                                                                                                                                                                                                                               |   |      |      |      |      |      |      |      |   |      |      |      |   |      |      |      |     |
|  24 m                                                                                                                                                                                                                                                                                                                                                                                                          |   |      |      |      |      |      |      |      |   |      |      |      |   |      |      |      |     |
| 0 t - 325 t 0 t 0 t - 325 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |      |      |      |      |      |      |      |   |      |      |      |   |      |      |      |     |
|  15° 20° 15° 20° 15° 20° 30° 15° 20° 15° 20° 15° 20° 15° 20°                                                                                                                                                                                                                                                                |   |      |      |      |      |      |      |      |   |      |      |      |   |      |      |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | t | t    | t    | t    | t    | t    | t    | t    | t | t    | t    | t    | t | t    | t    | t    | m   |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | -    | 89,0 | -    | -    | -    | -    | -    | - | -    | -    | -    | - | -    | -    | -    | 20  |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | -    | 87,2 | -    | 72,0 | 75,0 | -    | -    | - | -    | 87,5 | -    | - | -    | 88,0 | -    | 21  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 57,0 | 85,5 | -    | 72,0 | 74,5 | 61,0 | -    | - | -    | 86,0 | -    | - | -    | 86,5 | -    | 22  |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 56,0 | 83,5 | 60,5 | 69,5 | 74,0 | 60,0 | -    | - | 56,0 | 84,2 | 61,0 | - | 56,0 | 84,7 | 61,0 | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 55,0 | 81,5 | 59,5 | 68,5 | 73,5 | 59,0 | -    | - | 55,5 | 82,5 | 60,0 | - | 55,5 | 83,0 | 60,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 53,5 | 78,5 | 57,7 | 62,0 | 72,0 | 57,5 | 36,5 | - | 53,5 | 79,2 | 58,0 | - | 54,0 | 79,7 | 58,2 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 52,0 | 75,5 | 56,0 | 56,5 | 71,0 | 56,0 | 35,7 | - | 52,0 | 76,0 | 56,0 | - | 52,5 | 76,5 | 56,5 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 50,5 | 72,7 | 54,2 | 51,5 | 69,0 | 55,0 | 35,0 | - | 51,0 | 73,2 | 54,5 | - | 51,0 | 73,7 | 54,7 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 48,1 | 67,7 | 51,1 | 43,4 | 65,3 | 52,0 | 33,7 | - | 48,4 | 68,2 | 51,5 | - | 48,7 | 68,7 | 51,7 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 45,7 | 63,2 | 48,5 | 36,3 | 61,6 | 49,2 | 32,5 | - | 46,1 | 63,7 | 48,7 | - | 46,5 | 64,5 | 49,2 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 43,5 | 59,3 | 46,0 | 30,1 | 58,0 | 46,8 | 31,4 | - | 43,9 | 59,8 | 46,3 | - | 44,3 | 60,6 | 46,7 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 41,6 | 56,0 | 43,8 | 25,3 | 55,0 | 44,5 | 30,2 | - | 41,9 | 56,5 | 44,1 | - | 42,4 | 57,0 | 44,4 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 39,8 | 53,0 | 41,8 | 20,9 | 52,1 | 42,4 | 29,1 | - | 40,1 | 53,5 | 42,1 | - | 40,6 | 54,0 | 42,4 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 38,2 | 50,2 | 39,9 | 17,0 | 49,5 | 40,6 | 28,1 | - | 38,5 | 50,7 | 40,3 | - | 39,0 | 51,3 | 40,6 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 36,6 | 47,8 | 38,2 | 13,8 | 47,1 | 38,9 | 27,1 | - | 37,0 | 48,3 | 38,6 | - | 37,4 | 48,9 | 38,9 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 35,2 | 45,6 | 36,7 | 10,8 | 45,0 | 37,3 | 26,3 | - | 35,6 | 46,1 | 37,1 | - | 36,0 | 46,7 | 37,4 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 33,9 | 43,5 | 35,3 | 8,2  | 43,0 | 35,9 | 25,6 | - | 34,2 | 44,1 | 35,7 | - | 34,7 | 44,6 | 36,0 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 32,6 | 41,7 | 34,1 | 5,7  | 41,2 | 34,6 | 24,8 | - | 33,0 | 42,2 | 34,4 | - | 33,5 | 42,7 | 34,7 | 70  |
| 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 31,7 | 40,4 | 33,2 | 4,0  | 40,0 | 33,7 | 24,3 | - | 32,1 | 40,9 | 33,5 | - | 32,6 | 41,4 | 33,8 | 73  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 31,4 | 40,0 | 32,9 | -    | 39,6 | 33,4 | 24,2 | - | 31,8 | 40,5 | 33,2 | - | 32,3 | 41,0 | 33,5 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 30,4 | 38,5 | 31,8 | -    | 38,1 | 32,3 | 23,6 | - | 30,8 | 38,9 | 32,1 | - | 31,2 | 39,4 | 32,4 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 29,5 | 37,1 | 30,8 | -    | 36,7 | 31,3 | 23,0 | - | 29,8 | 37,5 | 31,1 | - | 30,2 | 38,0 | 31,4 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 28,7 | 35,8 | 29,9 | -    | 35,5 | 30,3 | 22,5 | - | 29,0 | 36,2 | 30,2 | - | 29,4 | 36,7 | 30,5 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 28,0 | 34,6 | 29,1 | -    | 34,3 | 29,5 | 22,1 | - | 28,3 | 35,0 | 29,4 | - | 28,6 | 35,5 | 29,7 | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 27,2 | 33,5 | 28,3 | -    | 33,2 | 28,7 | 21,7 | - | 27,5 | 33,9 | 28,6 | - | 27,9 | 34,4 | 28,9 | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | - | 26,5 | 32,5 | 27,7 | -    | 32,2 | 28,0 | 21,3 | - | 26,9 | 32,9 | 27,9 | - | 27,1 | 33,3 | 28,2 | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 25,9 | 31,6 | 27,0 | -    | 31,4 | 27,4 | 21,0 | - | 26,2 | 31,9 | 27,3 | - | 26,5 | 32,3 | 27,5 | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 25,3 | 30,8 | 26,5 | -    | 30,6 | 26,8 | 20,7 | - | 25,6 | 31,1 | 26,7 | - | 25,9 | 31,5 | 26,9 | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 24,8 | 30,0 | 26,0 | -    | 29,8 | 26,2 | 20,5 | - | 25,1 | 30,4 | 26,2 | - | 25,3 | 30,7 | 26,4 | 110 |
| 111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 24,7 | 29,8 | 25,9 | -    | 29,6 | 26,1 | 20,4 | - | 25,0 | 30,2 | 26,1 | - | 25,2 | 30,5 | 26,3 | 111 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 24,4 | 29,3 | 25,6 | -    | 29,1 | 25,8 | -    | - | 24,6 | 29,7 | 25,7 | - | 24,9 | 29,9 | 25,9 | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 24,0 | 28,7 | 25,2 | -    | 28,5 | 25,4 | -    | - | 24,2 | 29,0 | 25,3 | - | 24,4 | 29,3 | 25,5 | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 23,6 | 28,2 | 24,9 | -    | 27,9 | 25,0 | -    | - | 23,8 | 28,4 | 25,0 | - | 24,0 | 28,7 | 25,1 | 122 |
| 123                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | 6,3  | 28,1 | 21,9 | -    | 27,8 | 24,9 | -    | - | 23,7 | 28,3 | 24,9 | - | 23,9 | 28,6 | 25,0 | 123 |
| 125                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | -    | 27,9 | -    | -    | 27,6 | 24,8 | -    | - | 23,6 | 28,1 | 24,8 | - | 23,8 | 28,3 | 24,9 | 125 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | -    | 27,8 | -    | -    | 27,5 | -    | -    | - | -    | 28,0 | -    | - | 23,7 | 28,2 | 24,9 | 126 |
| 128                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | -    | -    | -    | -    | 27,3 | -    | -    | - | -    | 27,8 | -    | - | 8,4  | 28,0 | 24,8 | 128 |
| 129                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | -    | -    | -    | -    | 27,2 | -    | -    | - | -    | 27,7 | -    | - | -    | 27,9 | -    | 129 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | -    | -    | -    | -    | -    | -    | -    | - | -    | -    | -    | - | -    | 27,8 | -    | 130 |
| 131                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | - | -    | -    | -    | -    | -    | -    | -    | - | -    | -    | -    | - | -    | 27,7 | -    | 131 |

 0 t
  65 t
  95 t
  125 t
  165 t
  205 t
  265 t
  325 t

LSL+LF\_2 – LSL+LF\_4:  11-19 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t



# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |      |      |      |             |   |           |      |          |   |           |      |          |      |      |      |          |   |           |      |             |      |     |  |  |  |  |
|--------------------------------------------------|------|------|------|-------------|---|-----------|------|----------|---|-----------|------|----------|------|------|------|----------|---|-----------|------|-------------|------|-----|--|--|--|--|
| 126 m                                            |      |      |      |             |   |           |      |          |   |           |      | 129 m    |      |      |      | 132 m    |   |           |      |             |      |     |  |  |  |  |
| LSL+LF_2                                         |      |      |      | LSL+LF_4    |   | LSL+LF_14 |      | LSL+LF_4 |   | LSL+LF_14 |      | LSL+LF_2 |      |      |      | LSL+LF_4 |   | LSL+LF_14 |      |             |      |     |  |  |  |  |
| 24 m                                             |      |      |      |             |   |           |      |          |   |           |      |          |      |      |      |          |   |           |      |             |      |     |  |  |  |  |
| 0 t                                              |      |      |      | 0 t - 325 t |   |           |      |          |   |           |      |          |      |      |      | 0 t      |   |           |      | 0 t - 325 t |      |     |  |  |  |  |
| 15°                                              |      | 20°  |      | 30°         |   | 15°       |      | 20°      |   | 15°       |      | 20°      |      | 15°  |      | 20°      |   | 30°       |      | 15°         |      | 20° |  |  |  |  |
| m                                                | t    | t    | t    | t           | t | t         | t    | t        | t | t         | t    | t        | t    | t    | t    | t        | t | t         | t    | t           | t    | m   |  |  |  |  |
| 21                                               | 65,5 | 68,5 | -    | -           | - | -         | -    | -        | - | -         | -    | 89,0     | -    | -    | -    | -        | - | -         | -    | -           | -    | 21  |  |  |  |  |
| 22                                               | 65,5 | 68,0 | -    | -           | - | -         | -    | 86,0     | - | -         | -    | 87,0     | -    | 59,5 | 61,5 | -        | - | -         | -    | 87,5        | -    | 22  |  |  |  |  |
| 23                                               | 64,5 | 68,0 | 58,5 | -           | - | 62,5      | 84,5 | 61,5     | - | 62,5      | 85,2 | -        | 59,5 | 61,2 | -    | -        | - | -         | -    | 85,7        | -    | 23  |  |  |  |  |
| 24                                               | 64,0 | 68,0 | 58,0 | -           | - | 61,5      | 83,0 | 60,5     | - | 61,5      | 83,5 | 60,5     | 59,5 | 61,0 | 54,5 | -        | - | -         | 61,5 | 84,0        | 60,5 | 24  |  |  |  |  |
| 26                                               | 60,0 | 67,5 | 57,0 | -           | - | 60,0      | 80,0 | 58,5     | - | 60,0      | 80,5 | 58,7     | 57,0 | 60,5 | 54,5 | -        | - | -         | 60,0 | 81,0        | 58,7 | 26  |  |  |  |  |
| 27                                               | 57,2 | 67,5 | 56,5 | 36,0        | - | 59,2      | 78,5 | 57,5     | - | 59,2      | 79,0 | 57,8     | 54,5 | 60,5 | 54,2 | 35,9     | - | 59,2      | 79,5 | 57,8        | 27   |     |  |  |  |  |
| 28                                               | 54,5 | 67,5 | 56,0 | 35,7        | - | 58,5      | 77,0 | 56,5     | - | 58,5      | 77,5 | 57,0     | 52,5 | 60,5 | 54,0 | 35,6     | - | 58,5      | 78,0 | 57,0        | 28   |     |  |  |  |  |
| 30                                               | 50,0 | 67,0 | 54,5 | 35,0        | - | 57,0      | 74,2 | 55,0     | - | 57,0      | 74,7 | 55,2     | 48,0 | 60,0 | 53,5 | 35,0     | - | 57,0      | 75,5 | 55,5        | 30   |     |  |  |  |  |
| 34                                               | 42,0 | 64,0 | 52,1 | 33,7        | - | 54,0      | 69,2 | 52,0     | - | 54,3      | 69,7 | 52,2     | 40,1 | 59,0 | 51,8 | 33,8     | - | 54,3      | 70,5 | 52,5        | 34   |     |  |  |  |  |
| 38                                               | 34,9 | 61,0 | 49,8 | 32,5        | - | 51,4      | 65,0 | 49,3     | - | 51,9      | 65,5 | 49,7     | 33,2 | 57,8 | 49,9 | 32,7     | - | 51,9      | 66,0 | 49,9        | 38   |     |  |  |  |  |
| 42                                               | 28,9 | 58,0 | 47,4 | 31,4        | - | 49,3      | 61,1 | 47,0     | - | 49,7      | 61,6 | 47,3     | 27,2 | 56,5 | 47,7 | 31,5     | - | 49,8      | 62,1 | 47,6        | 42   |     |  |  |  |  |
| 46                                               | 24,1 | 55,3 | 45,2 | 30,3        | - | 47,3      | 57,5 | 44,8     | - | 47,6      | 58,0 | 45,1     | 22,5 | 54,8 | 45,6 | 30,4     | - | 47,7      | 58,5 | 45,4        | 46   |     |  |  |  |  |
| 50                                               | 19,7 | 52,6 | 43,1 | 29,3        | - | 45,4      | 54,5 | 42,8     | - | 45,7      | 55,0 | 43,1     | 18,3 | 53,0 | 43,6 | 29,4     | - | 45,8      | 55,5 | 43,4        | 50   |     |  |  |  |  |
| 54                                               | 15,9 | 50,0 | 41,3 | 28,3        | - | 43,6      | 51,8 | 40,9     | - | 43,9      | 52,3 | 41,2     | 14,5 | 51,0 | 41,8 | 28,5     | - | 44,1      | 52,8 | 41,6        | 54   |     |  |  |  |  |
| 58                                               | 12,7 | 47,9 | 39,6 | 27,4        | - | 41,9      | 49,4 | 39,3     | - | 42,2      | 50,0 | 39,6     | 11,3 | 49,0 | 40,2 | 27,6     | - | 42,4      | 50,5 | 39,9        | 58   |     |  |  |  |  |
| 62                                               | 9,8  | 45,9 | 38,0 | 26,6        | - | 40,3      | 47,2 | 37,7     | - | 40,6      | 47,7 | 38,0     | 8,4  | 47,0 | 38,6 | 26,8     | - | 40,8      | 48,2 | 38,3        | 62   |     |  |  |  |  |
| 66                                               | 7,2  | 43,9 | 36,6 | 25,8        | - | 38,8      | 45,1 | 36,3     | - | 39,2      | 45,6 | 36,6     | 5,8  | 45,0 | 37,2 | 26,1     | - | 39,4      | 46,1 | 36,9        | 66   |     |  |  |  |  |
| 70                                               | 4,9  | 42,0 | 35,3 | 25,1        | - | 37,5      | 43,2 | 35,0     | - | 37,9      | 43,7 | 35,4     | 3,5  | 42,8 | 35,9 | 25,4     | - | 38,1      | 44,2 | 35,7        | 70   |     |  |  |  |  |
| 72                                               | 3,8  | 41,2 | 34,7 | 24,8        | - | 36,9      | 42,3 | 34,4     | - | 37,3      | 42,8 | 34,8     | -    | 41,8 | 35,3 | 25,1     | - | 37,5      | 43,3 | 35,1        | 72   |     |  |  |  |  |
| 74                                               | -    | 40,4 | 34,1 | 24,5        | - | 36,3      | 41,5 | 33,8     | - | 36,7      | 42,0 | 34,2     | -    | 41,0 | 34,7 | 24,7     | - | 36,9      | 42,5 | 34,5        | 74   |     |  |  |  |  |
| 78                                               | -    | 39,0 | 33,0 | 23,9        | - | 35,2      | 39,9 | 32,7     | - | 35,6      | 40,4 | 33,0     | -    | 39,5 | 33,6 | 24,1     | - | 35,8      | 40,9 | 33,3        | 78   |     |  |  |  |  |
| 82                                               | -    | 37,6 | 32,0 | 23,3        | - | 34,2      | 38,5 | 31,7     | - | 34,5      | 38,9 | 32,0     | -    | 38,2 | 32,6 | 23,5     | - | 34,8      | 39,4 | 32,3        | 82   |     |  |  |  |  |
| 86                                               | -    | 36,4 | 31,0 | 22,7        | - | 33,2      | 37,1 | 30,8     | - | 33,5      | 37,6 | 31,1     | -    | 37,0 | 31,6 | 23,0     | - | 33,8      | 38,0 | 31,4        | 86   |     |  |  |  |  |
| 90                                               | -    | 35,2 | 30,1 | 22,3        | - | 32,3      | 35,9 | 30,0     | - | 32,6      | 36,4 | 30,2     | -    | 35,9 | 30,7 | 22,6     | - | 32,9      | 36,8 | 30,5        | 90   |     |  |  |  |  |
| 94                                               | -    | 34,1 | 29,3 | 21,9        | - | 31,4      | 34,8 | 29,2     | - | 31,7      | 35,2 | 29,4     | -    | 34,8 | 29,9 | 22,1     | - | 32,0      | 35,6 | 29,7        | 94   |     |  |  |  |  |
| 98                                               | -    | 33,1 | 28,5 | 21,5        | - | 30,6      | 33,7 | 28,4     | - | 30,9      | 34,1 | 28,7     | -    | 33,8 | 29,1 | 21,7     | - | 31,2      | 34,5 | 28,9        | 98   |     |  |  |  |  |
| 102                                              | -    | 32,1 | 27,9 | 21,2        | - | 29,9      | 32,8 | 27,8     | - | 30,2      | 33,1 | 28,0     | -    | 32,9 | 28,4 | 21,4     | - | 30,5      | 33,5 | 28,3        | 102  |     |  |  |  |  |
| 106                                              | -    | 31,3 | 27,3 | 20,8        | - | 29,3      | 31,9 | 27,2     | - | 29,5      | 32,3 | 27,4     | -    | 32,0 | 27,8 | 21,0     | - | 29,8      | 32,6 | 27,6        | 106  |     |  |  |  |  |
| 110                                              | -    | 30,5 | 26,7 | 20,6        | - | 28,7      | 31,1 | 26,6     | - | 28,9      | 31,4 | 26,8     | -    | 31,2 | 27,2 | 20,7     | - | 29,2      | 31,8 | 27,1        | 110  |     |  |  |  |  |
| 114                                              | -    | 29,8 | 26,2 | 20,4        | - | 28,1      | 30,3 | 26,1     | - | 28,3      | 30,6 | 26,3     | -    | 30,4 | 26,6 | 20,5     | - | 28,6      | 31,0 | 26,5        | 114  |     |  |  |  |  |
| 116                                              | -    | 29,4 | 25,9 | 20,3        | - | 27,9      | 29,9 | 25,9     | - | 28,1      | 30,3 | 26,1     | -    | 30,1 | 26,4 | 20,4     | - | 28,3      | 30,6 | 26,3        | 116  |     |  |  |  |  |
| 118                                              | -    | 29,1 | 25,7 | -           | - | 27,6      | 29,6 | 25,7     | - | 27,8      | 30,0 | 25,9     | -    | 29,7 | 26,1 | 20,3     | - | 28,0      | 30,3 | 26,1        | 118  |     |  |  |  |  |
| 120                                              | -    | 28,8 | 25,5 | -           | - | 27,4      | 29,3 | 25,5     | - | 27,6      | 29,6 | 25,7     | -    | 29,4 | 25,9 | 20,2     | - | 27,8      | 29,9 | 25,9        | 120  |     |  |  |  |  |
| 122                                              | -    | 28,5 | 25,3 | -           | - | 27,2      | 29,0 | 25,3     | - | 27,4      | 29,3 | 25,5     | -    | 29,1 | 25,7 | -        | - | 27,6      | 29,6 | 25,7        | 122  |     |  |  |  |  |
| 126                                              | -    | 28,0 | 25,0 | -           | - | 26,8      | 28,5 | 24,9     | - | 27,0      | 28,7 | 25,1     | -    | 28,5 | 25,3 | -        | - | 27,2      | 28,5 | 25,3        | 126  |     |  |  |  |  |
| 130                                              | -    | 27,5 | 24,7 | -           | - | 26,5      | 28,0 | 24,7     | - | 26,6      | 26,8 | 24,8     | -    | 28,0 | 24,9 | -        | - | 26,8      | 25,9 | 25,0        | 130  |     |  |  |  |  |
| 133                                              | -    | 27,2 | -    | -           | - | -         | 26,9 | -        | - | 24,0      | 25,0 | 20,7     | -    | 27,7 | 24,7 | -        | - | 26,6      | 24,1 | 23,9        | 133  |     |  |  |  |  |
| 134                                              | -    | 27,1 | -    | -           | - | -         | 26,3 | -        | - | -         | 24,4 | -        | -    | 27,6 | 24,6 | -        | - | 26,5      | 23,5 | 23,6        | 134  |     |  |  |  |  |
| 135                                              | -    | -    | -    | -           | - | -         | -    | -        | - | -         | 23,8 | -        | -    | 27,5 | 24,6 | -        | - | 26,5      | 22,9 | 23,3        | 135  |     |  |  |  |  |
| 136                                              | -    | -    | -    | -           | - | -         | -    | -        | - | -         | 23,3 | -        | -    | 27,4 | 12,6 | -        | - | -         | 22,3 | -           | 136  |     |  |  |  |  |
| 137                                              | -    | -    | -    | -           | - | -         | -    | -        | - | -         | 22,7 | -        | -    | 27,3 | -    | -        | - | -         | 21,7 | -           | 137  |     |  |  |  |  |
| 138                                              | -    | -    | -    | -           | - | -         | -    | -        | - | -         | -    | -        | -    | 27,2 | -    | -        | - | -         | 21,2 | -           | 138  |     |  |  |  |  |
| 139                                              | -    | -    | -    | -           | - | -         | -    | -        | - | -         | -    | -        | -    | 27,1 | -    | -        | - | -         | 20,7 | -           | 139  |     |  |  |  |  |

0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

LSL+LF\_2 – LSL+LF\_4: 11-19 m

LSL+LF\_14: 13-21 m

LSL+LF\_14: 225 t + 50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div><div><div><div></div></div><div>165 t + <div><div></div><div></div></div>50 t</div><div><div><div></div></div>11-21 m</div><div><div><div></div></div>8,40 m</div><div><div><div></div></div>9.8 m/s</div><div>360°</div><div>EN13000</div></div></div> |   |           |      |          |      |       |      |           |   |           |      |          |   |           |      |      |     |     |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|-----------|------|----------|------|-------|------|-----------|---|-----------|------|----------|---|-----------|------|------|-----|-----|--|
| 135 m                                                                                                                                                                                                                                                        |   |           |      |          |      | 138 m |      |           |   |           |      | 141 m    |   |           |      |      |     |     |  |
| LSL+LF_4                                                                                                                                                                                                                                                     |   | LSL+LF_14 |      | LSL+LF_2 |      |       |      | LSL+LF_4  |   | LSL+LF_14 |      | LSL+LF_4 |   | LSL+LF_14 |      |      |     |     |  |
| 24 m                                                                                                                                                                                                                                                         |   |           |      |          |      |       |      |           |   |           |      |          |   |           |      |      |     |     |  |
| 0t - 325t                                                                                                                                                                                                                                                    |   |           |      |          |      | 0 t   |      | 0t - 325t |   |           |      |          |   |           |      |      |     |     |  |
| 15°                                                                                                                                                                                                                                                          |   | 20°       |      | 15°      |      | 20°   |      | 15°       |   | 20°       |      | 15°      |   | 20°       |      | 15°  |     | 20° |  |
| m                                                                                                                                                                                                                                                            | t | t         | t    | t        | t    | t     | t    | t         | t | t         | t    | t        | t | t         | t    | t    | t   | m   |  |
| 22                                                                                                                                                                                                                                                           | - | -         | 88,0 | -        | 52,0 | 54,0  | -    | -         | - | -         | 87,5 | -        | - | -         | 89,0 | -    | 22  |     |  |
| 24                                                                                                                                                                                                                                                           | - | 61,5      | 84,5 | 61,0     | 52,0 | 53,5  | 48,9 | -         | - | 59,5      | 84,5 | 61,0     | - | 58,0      | 85,5 | -    | 24  |     |  |
| 25                                                                                                                                                                                                                                                           | - | 60,7      | 83,0 | 60,0     | 52,0 | 53,2  | 48,8 | -         | - | 59,0      | 83,1 | 60,0     | - | 57,7      | 84,0 | 60,5 | 25  |     |  |
| 26                                                                                                                                                                                                                                                           | - | 60,0      | 81,5 | 59,1     | 52,0 | 53,0  | 48,8 | -         | - | 59,0      | 81,7 | 59,1     | - | 57,5      | 82,5 | 59,5 | 26  |     |  |
| 28                                                                                                                                                                                                                                                           | - | 58,5      | 78,5 | 57,5     | 50,0 | 52,5  | 48,6 | 35,4      | - | 58,0      | 79,0 | 57,5     | - | 57,5      | 79,5 | 58,0 | 28  |     |  |
| 30                                                                                                                                                                                                                                                           | - | 57,5      | 76,0 | 55,7     | 46,4 | 52,5  | 48,3 | 34,8      | - | 57,0      | 76,5 | 56,0     | - | 57,0      | 77,0 | 56,2 | 30  |     |  |
| 34                                                                                                                                                                                                                                                           | - | 54,8      | 71,0 | 52,7     | 38,7 | 51,5  | 47,5 | 33,6      | - | 54,6      | 71,5 | 53,0     | - | 54,6      | 72,0 | 53,2 | 34  |     |  |
| 38                                                                                                                                                                                                                                                           | - | 52,3      | 66,5 | 50,3     | 31,9 | 50,6  | 46,6 | 32,4      | - | 52,3      | 67,0 | 50,4     | - | 52,5      | 67,5 | 50,8 | 38  |     |  |
| 42                                                                                                                                                                                                                                                           | - | 50,0      | 62,6 | 47,9     | 26,0 | 50,0  | 45,6 | 31,3      | - | 50,0      | 63,1 | 48,2     | - | 50,5      | 63,8 | 48,5 | 42  |     |  |
| 46                                                                                                                                                                                                                                                           | - | 48,1      | 59,0 | 45,7     | 21,4 | 49,0  | 44,5 | 30,3      | - | 48,1      | 59,5 | 46,0     | - | 48,6      | 60,5 | 46,3 | 46  |     |  |
| 50                                                                                                                                                                                                                                                           | - | 46,3      | 56,0 | 43,7     | 17,2 | 47,9  | 43,3 | 29,3      | - | 46,3      | 56,5 | 44,0     | - | 46,8      | 57,1 | 44,3 | 50  |     |  |
| 54                                                                                                                                                                                                                                                           | - | 44,5      | 53,3 | 41,9     | 13,5 | 46,5  | 41,9 | 28,4      | - | 44,6      | 53,8 | 42,2     | - | 45,0      | 54,3 | 42,4 | 54  |     |  |
| 58                                                                                                                                                                                                                                                           | - | 42,9      | 51,0 | 40,2     | 10,4 | 45,1  | 40,5 | 27,5      | - | 43,0      | 51,5 | 40,5     | - | 43,4      | 52,0 | 40,8 | 58  |     |  |
| 62                                                                                                                                                                                                                                                           | - | 41,3      | 48,8 | 38,7     | 7,6  | 43,7  | 39,0 | 26,7      | - | 41,5      | 49,2 | 39,0     | - | 41,9      | 49,5 | 39,2 | 62  |     |  |
| 66                                                                                                                                                                                                                                                           | - | 40,0      | 46,7 | 37,3     | 5,0  | 42,3  | 37,6 | 26,1      | - | 40,1      | 47,1 | 37,5     | - | 40,5      | 47,6 | 37,8 | 66  |     |  |
| 68                                                                                                                                                                                                                                                           | - | 39,2      | 45,7 | 36,6     | 3,8  | 41,6  | 36,9 | 25,7      | - | 39,3      | 46,1 | 36,9     | - | 39,8      | 46,6 | 37,1 | 68  |     |  |
| 70                                                                                                                                                                                                                                                           | - | 38,5      | 44,7 | 36,0     | -    | 40,9  | 36,2 | 25,4      | - | 38,7      | 45,2 | 36,3     | - | 39,1      | 45,7 | 36,5 | 70  |     |  |
| 74                                                                                                                                                                                                                                                           | - | 37,3      | 42,9 | 34,8     | -    | 39,6  | 34,9 | 24,8      | - | 37,5      | 43,4 | 35,1     | - | 37,9      | 43,9 | 35,3 | 74  |     |  |
| 78                                                                                                                                                                                                                                                           | - | 36,2      | 41,3 | 33,6     | -    | 38,2  | 33,8 | 24,3      | - | 36,3      | 41,8 | 33,9     | - | 36,7      | 42,3 | 34,2 | 78  |     |  |
| 82                                                                                                                                                                                                                                                           | - | 35,1      | 39,8 | 32,6     | -    | 36,8  | 32,8 | 23,7      | - | 35,3      | 40,3 | 32,9     | - | 35,6      | 40,7 | 33,2 | 82  |     |  |
| 86                                                                                                                                                                                                                                                           | - | 34,1      | 38,5 | 31,7     | -    | 35,6  | 32,0 | 23,2      | - | 34,3      | 38,9 | 31,9     | - | 34,6      | 39,3 | 32,2 | 86  |     |  |
| 90                                                                                                                                                                                                                                                           | - | 33,2      | 37,2 | 30,8     | -    | 34,4  | 31,2 | 22,8      | - | 33,4      | 37,6 | 31,0     | - | 33,8      | 38,0 | 31,3 | 90  |     |  |
| 94                                                                                                                                                                                                                                                           | - | 32,3      | 36,0 | 30,0     | -    | 33,3  | 30,4 | 22,3      | - | 32,6      | 36,4 | 30,2     | - | 32,9      | 36,8 | 30,5 | 94  |     |  |
| 98                                                                                                                                                                                                                                                           | - | 31,5      | 34,9 | 29,2     | -    | 31,7  | 29,6 | 21,9      | - | 31,8      | 35,3 | 29,4     | - | 32,1      | 35,7 | 29,7 | 98  |     |  |
| 102                                                                                                                                                                                                                                                          | - | 30,7      | 33,9 | 28,5     | -    | 30,8  | 28,9 | 21,6      | - | 31,0      | 34,3 | 28,7     | - | 31,3      | 34,7 | 29,0 | 102 |     |  |
| 106                                                                                                                                                                                                                                                          | - | 30,0      | 33,0 | 27,9     | -    | 30,0  | 28,2 | 21,2      | - | 30,3      | 33,4 | 28,1     | - | 30,5      | 33,7 | 28,3 | 106 |     |  |
| 110                                                                                                                                                                                                                                                          | - | 29,4      | 32,1 | 27,3     | -    | 29,2  | 27,6 | 20,9      | - | 29,7      | 32,5 | 27,5     | - | 29,9      | 32,8 | 27,7 | 110 |     |  |
| 114                                                                                                                                                                                                                                                          | - | 28,8      | 31,3 | 26,7     | -    | 28,7  | 27,1 | 20,6      | - | 29,1      | 31,7 | 26,9     | - | 29,3      | 32,0 | 27,1 | 114 |     |  |
| 118                                                                                                                                                                                                                                                          | - | 28,2      | 30,6 | 26,3     | -    | 28,3  | 26,5 | 20,4      | - | 28,5      | 30,9 | 26,5     | - | 28,7      | 30,1 | 26,7 | 118 |     |  |
| 122                                                                                                                                                                                                                                                          | - | 27,8      | 29,5 | 25,8     | -    | 28,0  | 26,0 | 20,2      | - | 27,9      | 28,8 | 26,0     | - | 28,2      | 27,2 | 26,2 | 122 |     |  |
| 125                                                                                                                                                                                                                                                          | - | 27,5      | 27,6 | 25,4     | -    | 27,9  | 25,7 | 20,1      | - | 27,6      | 26,9 | 25,5     | - | 27,8      | 25,1 | 25,3 | 125 |     |  |
| 126                                                                                                                                                                                                                                                          | - | 27,4      | 26,9 | 25,3     | -    | 27,8  | 25,6 | -         | - | 27,5      | 26,3 | 25,2     | - | 27,7      | 24,4 | 24,7 | 126 |     |  |
| 130                                                                                                                                                                                                                                                          | - | 27,0      | 24,3 | 24,7     | -    | 27,6  | 25,2 | -         | - | 26,6      | 23,7 | 24,0     | - | 25,8      | 21,8 | 22,3 | 130 |     |  |
| 134                                                                                                                                                                                                                                                          | - | 25,9      | 21,8 | 22,3     | -    | 27,3  | 24,9 | -         | - | 25,0      | 21,2 | 21,6     | - | 23,6      | 19,4 | 19,8 | 134 |     |  |
| 138                                                                                                                                                                                                                                                          | - | 23,7      | 19,6 | 19,9     | -    | 26,9  | 24,7 | -         | - | 22,9      | 19,0 | 19,3     | - | 21,5      | 17,2 | 17,6 | 138 |     |  |
| 140                                                                                                                                                                                                                                                          | - | -         | 18,5 | -        | -    | 26,0  | 24,6 | -         | - | 21,9      | 17,9 | 18,2     | - | 20,5      | 16,1 | 16,5 | 140 |     |  |
| 141                                                                                                                                                                                                                                                          | - | -         | 18,0 | -        | -    | 25,6  | 14,1 | -         | - | -         | 17,4 | -        | - | 20,0      | 15,6 | 15,9 | 141 |     |  |
| 142                                                                                                                                                                                                                                                          | - | -         | 17,5 | -        | -    | 25,1  | -    | -         | - | -         | 16,9 | -        | - | 19,5      | 15,1 | 15,4 | 142 |     |  |
| 143                                                                                                                                                                                                                                                          | - | -         | -    | -        | -    | 24,7  | -    | -         | - | -         | 16,4 | -        | - | 19,1      | 14,6 | 14,9 | 143 |     |  |
| 144                                                                                                                                                                                                                                                          | - | -         | -    | -        | -    | 24,3  | -    | -         | - | -         | 15,9 | -        | - | -         | 14,1 | -    | 144 |     |  |
| 146                                                                                                                                                                                                                                                          | - | -         | -    | -        | -    | -     | -    | -         | - | -         | -    | -        | - | -         | 13,1 | -    | 146 |     |  |
| 147                                                                                                                                                                                                                                                          | - | -         | -    | -        | -    | -     | -    | -         | - | -         | -    | -        | - | -         | 12,7 | -    | 147 |     |  |


☐ 0 t
 ☐ 65 t
 ☐ 95 t
 ☐ 125 t
 ☐ 165 t
 ☐ 205 t
 ☐ 265 t
 ☐ 325 t

LSL+LF\_2 – LSL+LF\_4:  11-19 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

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Operação · Эксплуатация

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s           360°           EN13000                                                                |      |      |      |      |   |      |      |      |   |      |      |      |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|---|------|------|------|---|------|------|------|-----|
|  <div> <div>144 m</div> <div>LSL+LF_2</div> </div> <div> <div>147 m</div> <div>LSL+LF_4</div> </div> <div> <div>24 m</div> <div>LSL+LF_14</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> <div>15°</div> <div>20°</div> </div>  |      |      |      |      |   |      |      |      |   |      |      |      |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | t    | t    | t    | t    | t | t    | t    | t    | t | t    | t    | t    | m   |
| 23                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45,8 | 47,4 | -    | -    | - | -    | 87,5 | -    | - | -    | 87,0 | -    | 23  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45,7 | 47,2 | -    | -    | - | -    | 86,0 | -    | - | -    | 86,5 | -    | 24  |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45,6 | 47,0 | 43,4 | -    | - | 55,0 | 84,5 | 60,5 | - | 53,0 | 85,0 | 60,5 | 25  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45,5 | 46,8 | 43,3 | -    | - | 54,5 | 83,0 | 59,5 | - | 53,0 | 83,5 | 59,7 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 45,1 | 46,4 | 43,1 | 34,8 | - | 54,5 | 80,0 | 58,0 | - | 53,0 | 80,5 | 58,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 44,1 | 46,0 | 42,8 | 34,3 | - | 54,5 | 77,2 | 56,5 | - | 53,0 | 77,7 | 56,5 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 36,7 | 45,2 | 42,2 | 33,1 | - | 53,1 | 72,2 | 53,5 | - | 52,3 | 72,7 | 53,7 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 30,2 | 44,4 | 41,6 | 32,0 | - | 51,6 | 68,0 | 50,9 | - | 51,3 | 68,5 | 51,2 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 24,4 | 43,6 | 41,0 | 31,0 | - | 50,0 | 64,3 | 48,7 | - | 50,0 | 64,6 | 48,9 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 19,8 | 42,8 | 40,3 | 30,0 | - | 48,0 | 61,0 | 46,5 | - | 48,3 | 61,0 | 46,8 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 15,7 | 41,9 | 39,5 | 29,0 | - | 46,2 | 57,6 | 44,5 | - | 46,6 | 58,0 | 44,8 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 12,0 | 40,9 | 38,6 | 28,2 | - | 44,6 | 54,8 | 42,7 | - | 44,9 | 55,3 | 43,0 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 8,9  | 39,8 | 37,5 | 27,4 | - | 43,0 | 52,5 | 41,1 | - | 43,4 | 53,0 | 41,4 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6,1  | 38,8 | 36,5 | 26,6 | - | 41,6 | 50,0 | 39,5 | - | 41,9 | 50,5 | 39,8 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 3,6  | 37,8 | 35,5 | 25,9 | - | 40,3 | 48,1 | 38,1 | - | 40,6 | 48,6 | 38,4 | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 36,8 | 34,4 | 25,3 | - | 39,0 | 46,1 | 36,8 | - | 39,3 | 46,6 | 37,1 | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 35,7 | 33,4 | 24,7 | - | 37,7 | 44,3 | 35,6 | - | 38,1 | 44,8 | 35,9 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 34,7 | 32,4 | 24,1 | - | 36,6 | 42,7 | 34,5 | - | 37,0 | 43,1 | 34,8 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 33,5 | 31,4 | 23,6 | - | 35,6 | 41,2 | 33,4 | - | 35,9 | 41,6 | 33,7 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 32,4 | 30,3 | 23,1 | - | 34,5 | 39,8 | 32,5 | - | 34,9 | 40,2 | 32,7 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 31,4 | 29,5 | 22,7 | - | 33,7 | 38,4 | 31,6 | - | 34,0 | 38,8 | 31,8 | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 30,4 | 28,7 | 22,3 | - | 32,9 | 37,2 | 30,7 | - | 33,2 | 37,6 | 31,0 | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | -    | 29,3 | 27,9 | 21,9 | - | 32,2 | 36,1 | 29,9 | - | 32,4 | 36,5 | 30,2 | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 28,1 | 27,2 | 21,6 | - | 31,5 | 35,1 | 29,2 | - | 31,8 | 35,5 | 29,4 | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 27,4 | 26,1 | 21,3 | - | 30,8 | 34,1 | 28,6 | - | 31,0 | 34,5 | 28,8 | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 26,4 | 25,5 | 21,0 | - | 30,1 | 33,2 | 28,0 | - | 30,4 | 32,9 | 28,2 | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 25,9 | 25,1 | 20,8 | - | 29,5 | 32,1 | 27,4 | - | 29,8 | 30,5 | 27,5 | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 25,4 | 24,5 | 20,5 | - | 28,9 | 29,1 | 26,9 | - | 29,2 | 27,4 | 27,1 | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 25,1 | 24,3 | 20,3 | - | 28,2 | 26,2 | 25,9 | - | 28,0 | 24,5 | 24,9 | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 24,8 | 24,1 | 20,1 | - | 27,2 | 23,4 | 24,0 | - | 25,8 | 21,8 | 22,4 | 126 |
| 130                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 24,6 | 23,9 | 17,7 | - | 24,7 | 20,9 | 21,4 | - | 23,4 | 19,2 | 19,8 | 130 |
| 134                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 24,4 | 23,9 | -    | - | 22,5 | 18,5 | 19,0 | - | 21,2 | 16,8 | 17,4 | 134 |
| 138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 24,3 | 23,9 | -    | - | 20,4 | 16,2 | 16,7 | - | 19,0 | 14,5 | 15,1 | 138 |
| 142                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 23,5 | 23,6 | -    | - | 18,4 | 14,1 | 14,5 | - | 17,0 | 12,4 | 12,9 | 142 |
| 145                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 22,6 | 22,9 | -    | - | 17,0 | 12,6 | 13,0 | - | 15,6 | 10,9 | 11,3 | 145 |
| 146                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 22,2 | 18,7 | -    | - | -    | 12,1 | -    | - | 15,2 | 10,4 | 10,8 | 146 |
| 148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 21,4 | -    | -    | - | -    | 11,2 | -    | - | 7,1  | 9,5  | 9,9  | 148 |
| 150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | 20,6 | -    | -    | - | -    | 10,3 | -    | - | -    | 8,6  | -    | 150 |
| 152                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -    | -    | -    | -    | - | -    | -    | -    | - | -    | 7,8  | -    | 152 |


☐ 0 t
 ☐ 65 t
 ☐ 95 t
 ☐ 125 t
 ☐ 165 t
 ☐ 205 t
 ☐ 265 t
 ☐ 325 t

LSL+LF\_2 – LSL+LF\_4:  11-19 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

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Operação · Эксплуатация

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |      |             |      |           |   |          |      |           |      |          |      |           |   |             |      |           |      |       |      |      |      |     |  |
|--------------------------------------------------|------|-------------|------|-----------|---|----------|------|-----------|------|----------|------|-----------|---|-------------|------|-----------|------|-------|------|------|------|-----|--|
| 150 m                                            |      |             |      | 153 m     |   |          |      | 156 m     |      |          |      | 159 m     |   |             |      | 162 m     |      | 165 m |      |      |      |     |  |
| LSL+LF_4                                         |      |             |      | LSL+LF_14 |   | LSL+LF_4 |      | LSL+LF_14 |      | LSL+LF_4 |      | LSL+LF_14 |   | LSL+LF_4    |      | LSL+LF_14 |      |       |      |      |      |     |  |
| 24 m                                             |      |             |      |           |   |          |      |           |      |          |      |           |   |             |      |           |      |       |      |      |      |     |  |
| 0 t                                              |      | 0 t - 325 t |      |           |   |          |      |           |      |          |      | 0 t       |   | 0 t - 325 t |      |           |      |       |      |      |      |     |  |
| 20°                                              |      | 15°         |      | 20°       |   | 15°      |      | 20°       |      | 15°      |      | 20°       |   | 15°         |      | 20°       |      | 15°   |      | 20°  |      | 15° |  |
| m                                                | t    | t           | t    | t         | t | t        | t    | t         | t    | t        | t    | t         | t | t           | t    | t         | t    | t     | t    | t    | t    | m   |  |
| 23                                               | -    | -           | 85,5 | -         | - | -        | 82,5 | -         | -    | -        | 80,0 | -         | - | -           | 77,0 | -         | 74,5 | -     | -    | -    | -    | 23  |  |
| 24                                               | -    | -           | 85,5 | -         | - | -        | 82,5 | -         | -    | -        | 80,0 | -         | - | -           | 77,0 | -         | 74,5 | -     | -    | -    | -    | 24  |  |
| 25                                               | 45,2 | 46,9        | 84,3 | -         | - | 45,5     | 82,0 | -         | -    | -        | 79,7 | -         | - | -           | 76,8 | -         | 74,5 | -     | 71,5 | -    | -    | 25  |  |
| 26                                               | 45,2 | 46,8        | 83,2 | 60,0      | - | 45,4     | 81,5 | 60,0      | 42,1 | 43,5     | 79,5 | 60,5      | - | 42,0        | 76,7 | 60,5      | 74,3 | -     | 71,3 | -    | -    | 26  |  |
| 27                                               | 44,4 | 46,7        | 82,1 | 59,2      | - | 45,3     | 81,0 | 59,5      | 41,5 | 43,4     | 79,2 | 59,5      | - | 41,9        | 76,6 | 59,5      | 74,1 | 60,0  | 71,1 | 60,0 | 59,0 | 27  |  |
| 28                                               | 44,4 | 46,7        | 81,0 | 58,5      | - | 45,2     | 80,5 | 58,5      | 41,5 | 43,3     | 79,0 | 58,5      | - | 41,9        | 76,5 | 59,0      | 74,0 | 59,0  | 71,0 | 59,0 | 59,0 | 28  |  |
| 30                                               | 42,1 | 46,5        | 78,2 | 57,0      | - | 45,0     | 78,2 | 57,0      | 39,6 | 43,1     | 77,7 | 57,0      | - | 41,7        | 76,0 | 57,5      | 73,5 | 57,5  | 70,5 | 57,7 | 30   |     |  |
| 34                                               | 34,5 | 45,9        | 73,2 | 54,0      | - | 44,4     | 73,7 | 54,2      | 32,2 | 42,6     | 74,2 | 54,2      | - | 41,2        | 74,0 | 54,7      | 72,0 | 54,7  | 69,5 | 55,0 | 34   |     |  |
| 38                                               | 27,9 | 45,2        | 69,0 | 51,2      | - | 43,9     | 69,5 | 51,7      | 25,6 | 42,1     | 70,0 | 51,7      | - | 40,7        | 70,5 | 52,2      | 69,7 | 52,2  | 68,2 | 52,5 | 38   |     |  |
| 42                                               | 22,2 | 44,5        | 65,1 | 49,0      | - | 43,3     | 65,6 | 49,4      | 20,0 | 41,5     | 66,1 | 49,5      | - | 40,2        | 66,6 | 49,9      | 66,8 | 50,0  | 66,3 | 50,4 | 42   |     |  |
| 46                                               | 17,6 | 43,7        | 61,5 | 47,1      | - | 42,5     | 62,0 | 47,3      | 15,4 | 40,8     | 62,5 | 47,6      | - | 39,6        | 63,0 | 47,8      | 63,5 | 48,0  | 64,0 | 48,3 | 46   |     |  |
| 50                                               | 13,4 | 42,9        | 58,5 | 45,1      | - | 41,8     | 59,0 | 45,3      | 11,3 | 40,1     | 59,5 | 45,6      | - | 39,0        | 60,0 | 45,8      | 60,5 | 46,1  | 61,0 | 46,3 | 50   |     |  |
| 54                                               | 9,7  | 42,1        | 55,8 | 43,3      | - | 41,2     | 56,1 | 43,5      | 7,7  | 39,5     | 56,6 | 43,8      | - | 38,4        | 57,3 | 44,0      | 57,7 | 44,3  | 58,0 | 44,5 | 54   |     |  |
| 58                                               | 6,6  | 40,9        | 53,5 | 41,6      | - | 40,2     | 53,5 | 41,9      | 4,5  | 38,8     | 54,0 | 42,2      | - | 37,7        | 54,5 | 42,4      | 55,0 | 42,7  | 55,5 | 42,9 | 58   |     |  |
| 59                                               | 5,8  | 40,6        | 52,8 | 41,2      | - | 40,0     | 53,0 | 41,5      | 3,8  | 38,6     | 53,5 | 41,8      | - | 37,6        | 53,9 | 42,0      | 54,4 | 42,3  | 54,9 | 42,5 | 59   |     |  |
| 62                                               | 3,7  | 39,7        | 51,0 | 40,1      | - | 39,3     | 51,5 | 40,3      | -    | 38,0     | 52,0 | 40,6      | - | 37,1        | 52,1 | 40,9      | 52,6 | 41,1  | 53,1 | 41,4 | 62   |     |  |
| 66                                               | -    | 38,7        | 49,0 | 38,7      | - | 38,5     | 49,5 | 39,0      | -    | 37,3     | 49,9 | 39,2      | - | 36,5        | 50,1 | 39,5      | 50,6 | 39,7  | 51,0 | 40,0 | 66   |     |  |
| 70                                               | -    | 37,6        | 47,0 | 37,4      | - | 37,6     | 47,5 | 37,6      | -    | 36,6     | 47,9 | 37,9      | - | 35,9        | 48,4 | 38,2      | 48,8 | 38,4  | 49,2 | 38,7 | 70   |     |  |
| 74                                               | -    | 36,6        | 45,2 | 36,2      | - | 36,8     | 45,7 | 36,4      | -    | 35,8     | 46,1 | 36,7      | - | 35,3        | 46,6 | 37,0      | 47,0 | 37,2  | 47,4 | 37,5 | 74   |     |  |
| 78                                               | -    | 35,7        | 43,6 | 35,0      | - | 36,0     | 44,0 | 35,3      | -    | 35,2     | 44,4 | 35,5      | - | 34,7        | 44,9 | 35,8      | 45,3 | 36,0  | 45,7 | 36,3 | 78   |     |  |
| 82                                               | -    | 34,8        | 42,0 | 34,0      | - | 35,0     | 42,4 | 34,2      | -    | 34,2     | 42,9 | 34,5      | - | 33,8        | 43,3 | 34,7      | 43,7 | 35,0  | 44,1 | 35,2 | 82   |     |  |
| 86                                               | -    | 33,9        | 40,6 | 33,0      | - | 34,3     | 41,0 | 33,2      | -    | 33,5     | 41,4 | 33,5      | - | 33,0        | 41,8 | 33,7      | 42,2 | 34,0  | 42,6 | 34,2 | 86   |     |  |
| 90                                               | -    | 33,1        | 39,3 | 32,1      | - | 33,5     | 39,7 | 32,3      | -    | 32,8     | 40,0 | 32,6      | - | 32,2        | 40,4 | 32,8      | 40,8 | 33,0  | 41,2 | 33,3 | 90   |     |  |
| 94                                               | -    | 32,3        | 38,0 | 31,2      | - | 32,5     | 38,4 | 31,5      | -    | 31,8     | 38,8 | 31,7      | - | 31,6        | 39,2 | 32,0      | 39,6 | 32,2  | 39,9 | 32,4 | 94   |     |  |
| 98                                               | -    | 31,5        | 36,9 | 30,4      | - | 31,9     | 37,2 | 30,7      | -    | 31,1     | 37,6 | 30,9      | - | 30,7        | 38,0 | 31,2      | 38,4 | 31,4  | 38,7 | 31,6 | 98   |     |  |
| 102                                              | -    | 30,9        | 35,8 | 29,7      | - | 31,2     | 36,2 | 29,9      | -    | 30,5     | 36,5 | 30,2      | - | 30,2        | 36,9 | 30,4      | 37,2 | 30,6  | 37,2 | 30,8 | 102  |     |  |
| 106                                              | -    | 30,2        | 34,8 | 29,0      | - | 30,5     | 35,2 | 29,2      | -    | 29,6     | 35,5 | 29,5      | - | 29,6        | 35,9 | 29,7      | 36,1 | 29,9  | 34,1 | 30,1 | 106  |     |  |
| 110                                              | -    | 29,6        | 33,9 | 28,4      | - | 29,8     | 34,2 | 28,6      | -    | 28,8     | 33,9 | 28,8      | - | 28,8        | 33,4 | 29,0      | 32,6 | 29,2  | 30,7 | 28,7 | 110  |     |  |
| 114                                              | -    | 29,2        | 32,5 | 27,8      | - | 29,2     | 31,9 | 28,0      | -    | 28,3     | 31,3 | 28,2      | - | 28,3        | 29,8 | 27,9      | 29,1 | 27,8  | 27,4 | 26,8 | 114  |     |  |
| 118                                              | -    | 28,5        | 30,1 | 27,3      | - | 28,8     | 28,3 | 27,5      | -    | 27,8     | 27,5 | 27,6      | - | 27,5        | 26,2 | 26,5      | 25,6 | 25,6  | 24,1 | 24,3 | 118  |     |  |
| 122                                              | -    | 28,1        | 27,3 | 26,7      | - | 28,0     | 25,5 | 25,8      | -    | 27,0     | 24,7 | 25,2      | - | 26,0        | 22,9 | 23,7      | 22,3 | 22,8  | 20,7 | 21,3 | 122  |     |  |
| 126                                              | -    | 27,7        | 24,6 | 25,2      | - | 26,6     | 22,9 | 23,6      | -    | 25,3     | 22,1 | 22,7      | - | 23,9        | 20,3 | 21,1      | 19,5 | 20,2  | 17,8 | 18,5 | 126  |     |  |
| 130                                              | -    | 25,5        | 22,0 | 22,7      | - | 24,2     | 20,4 | 21,1      | -    | 22,9     | 19,6 | 20,1      | - | 21,5        | 17,9 | 18,5      | 17,1 | 17,7  | 15,4 | 16,0 | 130  |     |  |
| 134                                              | -    | 23,3        | 19,6 | 20,3      | - | 21,9     | 18,0 | 18,6      | -    | 20,7     | 17,2 | 17,7      | - | 19,3        | 15,5 | 16,1      | 14,7 | 15,3  | 13,0 | 13,6 | 134  |     |  |
| 138                                              | -    | 21,1        | 17,4 | 18,0      | - | 19,8     | 15,7 | 16,3      | -    | 18,6     | 15,0 | 15,4      | - | 17,2        | 13,3 | 13,7      | 12,5 | 13,0  | 10,5 | 11,4 | 138  |     |  |
| 142                                              | -    | 19,1        | 15,2 | 15,8      | - | 17,8     | 13,6 | 14,1      | -    | 16,6     | 12,8 | 13,2      | - | 15,2        | 11,2 | 11,6      | 10,4 | 10,9  | 7,8  | 9,2  | 142  |     |  |
| 146                                              | -    | 17,2        | 13,2 | 13,8      | - | 15,9     | 11,5 | 12,1      | -    | 14,7     | 10,8 | 11,2      | - | 13,4        | 9,2  | 9,6       | 8,4  | 8,8   | 5,2  | 7,2  | 146  |     |  |
| 148                                              | -    | 16,3        | 12,3 | 12,8      | - | 15,0     | 10,6 | 11,1      | -    | 13,8     | 9,8  | 10,2      | - | 12,5        | 8,2  | 8,6       | 7,5  | 7,8   | 3,9  | 6,2  | 148  |     |  |
| 150                                              | -    | 15,5        | 11,4 | 11,8      | - | 14,2     | 9,7  | 10,1      | -    | 13,0     | 8,9  | 9,3       | - | 11,6        | 7,3  | 7,6       | 6,5  | 6,9   | -    | 4,7  | 150  |     |  |
| 151                                              | -    | -           | 10,9 | -         | - | 13,7     | 9,2  | 9,7       | -    | 12,5     | 8,4  | 8,8       | - | 11,2        | 6,8  | 7,2       | 6,0  | 6,4   | -    | 4,0  | 151  |     |  |
| 153                                              | -    | -           | 10,1 | -         | - | 12,9     | 8,3  | 8,8       | -    | 11,7     | 7,5  | 7,9       | - | 10,4        | 5,9  | 6,2       | 5,0  | 5,5   | -    | -    | 153  |     |  |
| 154                                              | -    | -           | 9,7  | -         | - | -        | 7,9  | -         | -    | 11,3     | 7,1  | 7,5       | - | 10,0        | 5,5  | 5,8       | 4,6  | 5,1   | -    | -    | 154  |     |  |
| 155                                              | -    | -           | 9,2  | -         | - | -        | 7,5  | -         | -    | 10,9     | 6,7  | 7,0       | - | 9,6         | 5,0  | 5,2       | 4,0  | 4,3   | -    | -    | 155  |     |  |
| 156                                              | -    | -           | -    | -         | - | -        | 7,1  | -         | -    | -        | 6,3  | -         | - | 9,2         | 4,6  | 4,7       | -    | 3,6   | -    | -    | 156  |     |  |
| 157                                              | -    | -           | -    | -         | - | -        | 6,7  | -         | -    | -        | 5,9  | -         | - | 8,8         | 4,2  | 4,2       | -    | -     | -    | -    | 157  |     |  |
| 158                                              | -    | -           | -    | -         | - | -        | -    | -         | -    | -        | 5,5  | -         | - | -           | 3,8  | -         | -    | -     | -    | -    | 158  |     |  |
| 160                                              | -    | -           | -    | -         | - | -        | -    | -         | -    | -        | 4,7  | -         | - | -           | -    | -         | -    | -     | -    | -    | 160  |     |  |

 0 t   65 t   95 t   125 t   165 t   205 t   265 t   325 t

LSL+LF\_4:  11-19 m

LSL+LF\_14:  13-21 m

LSL+LF\_14:  225 t +  50 t

# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t |      | 11-19 m   |      | 8,40 m |      | 9.8 m/s   |      | 360° |      | EN13000   |      |
|--------------|------|-----------|------|--------|------|-----------|------|------|------|-----------|------|
| 72 m         |      | 78 m      |      | 84 m   |      | 90 m      |      | 96 m |      | LSL+LF_2  |      |
| 0 t          |      | 0 t-325 t |      | 0 t    |      | 0 t-325 t |      | 0 t  |      | 0 t-325 t |      |
| 15°          |      | 20°       |      | 30°    |      | 15°       |      | 20°  |      | 30°       |      |
| m            | t    | t         | t    | t      | t    | t         | t    | t    | t    | t         | t    |
| 20           | 52,0 | 52,0      | -    | -      | -    | -         | -    | -    | -    | -         | -    |
| 21           | 50,7 | 50,8      | -    | -      | 51,0 | 51,0      | -    | -    | 51,0 | 51,5      | -    |
| 22           | 49,4 | 49,6      | -    | -      | 49,8 | 50,0      | -    | -    | 50,0 | 50,0      | -    |
| 23           | 48,2 | 48,4      | 38,4 | -      | 48,6 | 48,8      | -    | -    | 48,9 | 49,0      | -    |
| 24           | 47,0 | 47,2      | 37,6 | -      | 47,5 | 47,7      | 37,8 | -    | 47,8 | 48,1      | 37,9 |
| 25           | 45,9 | 46,1      | 36,8 | -      | 46,4 | 46,6      | 37,0 | -    | 46,7 | 47,0      | 37,1 |
| 26           | 44,8 | 45,0      | 36,0 | -      | 45,3 | 45,6      | 36,2 | -    | 45,7 | 46,0      | 36,4 |
| 28           | 42,8 | 43,1      | 34,5 | -      | 43,4 | 43,6      | 34,8 | -    | 43,9 | 44,1      | 35,1 |
| 29           | 41,9 | 42,1      | 33,8 | 21,8   | 42,5 | 42,7      | 34,2 | 21,8 | 43,0 | 43,2      | 34,4 |
| 30           | 41,0 | 41,2      | 33,2 | 21,5   | 41,7 | 41,9      | 33,6 | 21,5 | 42,2 | 42,4      | 33,8 |
| 31           | 40,2 | 40,3      | 32,6 | 21,1   | 40,9 | 41,1      | 33,0 | 21,2 | 41,4 | 41,6      | 33,2 |
| 34           | 37,8 | 37,9      | 30,8 | 20,2   | 38,5 | 38,7      | 31,3 | 20,3 | 39,1 | 39,3      | 31,6 |
| 38           | 34,8 | 34,9      | 28,7 | 19,0   | 35,6 | 35,7      | 29,2 | 19,1 | 36,3 | 36,5      | 29,6 |
| 42           | 32,2 | 32,3      | 26,8 | 18,0   | 33,0 | 33,1      | 27,3 | 18,1 | 33,8 | 33,9      | 27,8 |
| 46           | 30,0 | 30,1      | 25,2 | 17,0   | 30,8 | 30,9      | 25,7 | 17,2 | 31,6 | 31,7      | 26,2 |
| 50           | 28,2 | 28,3      | 23,7 | 16,2   | 28,9 | 29,0      | 24,2 | 16,4 | 29,6 | 29,8      | 24,7 |
| 54           | 26,6 | 26,8      | 22,5 | 15,5   | 27,3 | 27,4      | 23,0 | 15,7 | 27,9 | 28,1      | 23,5 |
| 58           | 25,2 | 25,4      | 21,4 | 14,9   | 25,5 | 26,1      | 22,0 | 15,1 | 25,0 | 26,7      | 22,4 |
| 62           | 23,5 | 24,0      | 20,4 | 14,3   | 23,0 | 24,8      | 21,0 | 14,5 | 22,0 | 25,5      | 21,4 |
| 66           | 21,3 | 22,8      | 19,5 | 13,8   | 19,9 | 23,6      | 20,0 | 14,0 | 18,9 | 24,3      | 20,5 |
| 70           | 18,7 | 21,7      | 18,7 | 13,3   | 17,3 | 22,5      | 19,2 | 13,5 | 16,3 | 23,2      | 19,7 |
| 74           | 16,4 | 20,7      | 17,9 | 12,9   | 14,9 | 21,5      | 18,4 | 13,1 | 13,9 | 22,2      | 18,9 |
| 78           | 14,3 | 19,8      | 17,2 | 12,6   | 12,8 | 20,6      | 17,7 | 12,7 | 11,8 | 21,3      | 18,2 |
| 82           | 12,4 | 19,0      | 16,6 | 12,2   | 10,9 | 19,7      | 17,1 | 12,4 | 9,9  | 20,4      | 17,6 |
| 86           | 10,7 | 18,2      | 16,0 | 12,0   | 9,2  | 18,9      | 16,5 | 12,2 | 8,2  | 19,6      | 17,0 |
| 88           | 9,9  | 17,9      | 15,8 | 12,0   | 8,4  | 18,6      | 16,2 | 12,1 | 7,4  | 19,2      | 16,7 |
| 90           | 9,2  | 17,6      | 15,6 | -      | 7,7  | 18,3      | 16,0 | 12,0 | 6,7  | 18,9      | 16,5 |
| 92           | 8,5  | 17,3      | 15,4 | -      | 7,0  | 18,0      | 15,8 | 11,9 | 6,0  | 18,6      | 16,2 |
| 94           | 7,8  | 17,0      | 15,2 | -      | 6,3  | 17,7      | 15,6 | -    | 5,3  | 18,3      | 15,9 |
| 96           | 7,2  | 16,8      | 15,0 | -      | 5,6  | 17,4      | 15,4 | -    | 4,6  | 18,0      | 15,7 |
| 98           | 6,6  | 16,6      | -    | -      | 5,0  | 17,1      | 15,2 | -    | 4,0  | 17,7      | 15,5 |
| 99           | 6,3  | 16,5      | -    | -      | 4,7  | 17,0      | 15,1 | -    | 3,7  | 17,6      | 15,4 |
| 101          | -    | -         | -    | -      | 4,1  | 16,8      | 14,9 | -    | -    | 17,3      | 15,3 |
| 102          | -    | -         | -    | -      | 3,9  | 16,7      | -    | -    | -    | 17,2      | 15,2 |
| 103          | -    | -         | -    | -      | 3,6  | 16,6      | -    | -    | -    | 17,0      | 15,1 |
| 104          | -    | -         | -    | -      | -    | 16,5      | -    | -    | -    | 16,9      | 15,0 |
| 105          | -    | -         | -    | -      | -    | -         | -    | -    | -    | 16,8      | 14,9 |
| 106          | -    | -         | -    | -      | -    | -         | -    | -    | -    | 16,7      | 14,9 |
| 109          | -    | -         | -    | -      | -    | -         | -    | -    | -    | 16,4      | -    |
| 110          | -    | -         | -    | -      | -    | -         | -    | -    | -    | -         | -    |
| 111          | -    | -         | -    | -      | -    | -         | -    | -    | -    | -         | -    |
| 114          | -    | -         | -    | -      | -    | -         | -    | -    | -    | -         | -    |
| 116          | -    | -         | -    | -      | -    | -         | -    | -    | -    | -         | -    |
| 118          | -    | -         | -    | -      | -    | -         | -    | -    | -    | -         | -    |
| 120          | -    | -         | -    | -      | -    | -         | -    | -    | -    | -         | -    |

|  |     |      |      |       |       |       |       |       |
|--|-----|------|------|-------|-------|-------|-------|-------|
|  | 0 t | 65 t | 95 t | 125 t | 165 t | 205 t | 265 t | 325 t |
|--|-----|------|------|-------|-------|-------|-------|-------|



# Operation

LSL+LF

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t |      | 11-19 m     |      | 8,40 m |      | 9.8 m/s     |      | 360°  |      | EN13000     |      |
|--------------|------|-------------|------|--------|------|-------------|------|-------|------|-------------|------|
| 102 m        |      | 108 m       |      | 114 m  |      | 120 m       |      | 126 m |      | LSL+LF_2    |      |
| 0 t          |      | 0 t - 325 t |      | 0 t    |      | 0 t - 325 t |      | 0 t   |      | 0 t - 325 t |      |
| 15°          |      | 20°         |      | 30°    |      | 15°         |      | 20°   |      | 30°         |      |
| m            | t    | t           | t    | t      | t    | t           | t    | t     | t    | t           | t    |
| 23           | 49,5 | 49,9        | -    | -      | -    | -           | -    | -     | -    | -           | -    |
| 24           | 48,6 | 48,9        | -    | -      | 48,7 | 49,1        | -    | -     | 48,8 | 49,2        | -    |
| 25           | 47,6 | 47,9        | -    | -      | 47,8 | 48,2        | -    | -     | 48,0 | 48,3        | -    |
| 26           | 46,7 | 47,0        | 36,8 | -      | 47,0 | 47,3        | -    | -     | 47,2 | 47,5        | -    |
| 27           | 45,8 | 46,1        | 36,2 | -      | 46,1 | 46,4        | 36,3 | -     | 46,4 | 46,7        | 36,4 |
| 28           | 45,0 | 45,3        | 35,6 | -      | 45,3 | 45,6        | 35,7 | -     | 45,6 | 45,9        | 35,8 |
| 30           | 43,4 | 43,7        | 34,5 | -      | 43,8 | 44,1        | 34,6 | -     | 44,2 | 44,4        | 34,8 |
| 31           | 42,7 | 43,0        | 34,0 | 21,2   | 43,1 | 43,4        | 34,1 | -     | 43,4 | 43,7        | 34,3 |
| 32           | 42,0 | 42,3        | 33,5 | 20,9   | 42,4 | 42,7        | 33,6 | 20,9  | 42,7 | 43,1        | 33,8 |
| 33           | 41,3 | 41,6        | 33,0 | 20,6   | 41,8 | 42,0        | 33,2 | 20,6  | 42,1 | 42,4        | 33,4 |
| 34           | 40,6 | 40,9        | 32,5 | 20,4   | 41,1 | 41,3        | 32,7 | 20,4  | 41,4 | 41,8        | 32,9 |
| 38           | 38,1 | 38,3        | 30,6 | 19,4   | 38,0 | 38,8        | 30,9 | 19,5  | 37,5 | 39,3        | 31,2 |
| 42           | 35,7 | 35,9        | 29,0 | 18,6   | 35,3 | 36,5        | 29,3 | 18,7  | 33,2 | 37,1        | 29,6 |
| 46           | 31,9 | 33,7        | 27,4 | 17,8   | 30,3 | 34,4        | 27,8 | 17,9  | 28,3 | 35,0        | 28,2 |
| 50           | 28,2 | 31,8        | 26,0 | 17,0   | 25,9 | 32,5        | 26,4 | 17,1  | 23,9 | 33,1        | 26,8 |
| 54           | 24,2 | 30,0        | 24,8 | 16,4   | 22,0 | 30,7        | 25,2 | 16,5  | 19,9 | 31,3        | 25,6 |
| 58           | 20,9 | 28,5        | 23,6 | 15,7   | 18,7 | 29,1        | 24,0 | 15,9  | 16,7 | 29,7        | 24,4 |
| 62           | 17,9 | 27,2        | 22,6 | 15,1   | 15,7 | 27,7        | 23,0 | 15,3  | 13,7 | 28,3        | 23,4 |
| 66           | 15,1 | 26,0        | 21,7 | 14,7   | 13,0 | 26,5        | 22,0 | 14,8  | 11,0 | 27,0        | 22,4 |
| 70           | 12,5 | 24,9        | 20,9 | 14,2   | 10,6 | 25,4        | 21,2 | 14,3  | 8,6  | 25,9        | 21,6 |
| 74           | 10,2 | 23,9        | 20,1 | 13,7   | 8,4  | 24,4        | 20,4 | 13,9  | 6,5  | 24,9        | 20,8 |
| 75           | 9,6  | 23,6        | 19,9 | 13,6   | 7,9  | 24,1        | 20,2 | 13,8  | 6,0  | 24,6        | 20,6 |
| 77           | 8,5  | 23,1        | 19,5 | 13,4   | 6,8  | 23,6        | 19,8 | 13,6  | 5,0  | 24,1        | 20,2 |
| 78           | 8,0  | 22,9        | 19,4 | 13,3   | 6,3  | 23,4        | 19,7 | 13,5  | 4,5  | 23,9        | 20,1 |
| 80           | 7,0  | 22,4        | 19,0 | 13,1   | 5,3  | 23,0        | 19,3 | 13,3  | 3,6  | 23,4        | 19,7 |
| 82           | 6,1  | 22,0        | 18,7 | 12,9   | 4,3  | 22,5        | 19,0 | 13,1  | -    | 23,0        | 19,4 |
| 83           | 5,6  | 21,8        | 18,5 | 12,8   | 3,9  | 22,3        | 18,9 | 13,0  | -    | 22,8        | 19,2 |
| 86           | 4,3  | 21,2        | 18,1 | 12,6   | -    | 21,7        | 18,4 | 12,8  | -    | 22,2        | 18,8 |
| 88           | 3,5  | 20,9        | 17,8 | 12,5   | -    | 21,3        | 18,1 | 12,6  | -    | 21,8        | 18,5 |
| 90           | -    | 20,5        | 17,5 | 12,4   | -    | 21,0        | 17,8 | 12,5  | -    | 21,4        | 18,2 |
| 94           | -    | 19,8        | 17,0 | 12,1   | -    | 20,2        | 17,3 | 12,2  | -    | 20,7        | 17,6 |
| 98           | -    | 19,2        | 16,6 | 11,9   | -    | 19,6        | 16,8 | 12,0  | -    | 20,1        | 17,1 |
| 102          | -    | 18,6        | 16,2 | 11,7   | -    | 19,0        | 16,4 | 11,8  | -    | 19,5        | 16,7 |
| 106          | -    | 18,1        | 15,8 | 11,5   | -    | 18,5        | 16,0 | 11,6  | -    | 18,9        | 16,3 |
| 109          | -    | 17,7        | 15,5 | 11,5   | -    | 18,1        | 15,8 | 11,5  | -    | 18,5        | 16,0 |
| 110          | -    | 17,6        | 15,4 | -      | -    | 18,0        | 15,7 | 11,5  | -    | 18,4        | 15,9 |
| 114          | -    | 17,2        | 15,2 | -      | -    | 17,6        | 15,4 | 11,4  | -    | 18,0        | 15,6 |
| 118          | -    | 16,8        | 14,9 | -      | -    | 17,2        | 15,1 | -     | -    | 17,6        | 15,3 |
| 121          | -    | 16,6        | 14,7 | -      | -    | 16,9        | 14,9 | -     | -    | 17,3        | 15,1 |
| 122          | -    | 16,5        | -    | -      | -    | 16,8        | 14,9 | -     | -    | 17,2        | 15,1 |
| 123          | -    | 16,4        | -    | -      | -    | 16,8        | 14,8 | -     | -    | 17,1        | 15,0 |
| 125          | -    | 16,3        | -    | -      | -    | 16,6        | 14,7 | -     | -    | 16,9        | 14,9 |
| 126          | -    | -           | -    | -      | -    | 16,5        | 14,7 | -     | -    | 16,9        | 14,9 |
| 127          | -    | -           | -    | -      | -    | 16,4        | -    | -     | -    | 16,8        | 14,8 |
| 130          | -    | -           | -    | -      | -    | 16,2        | -    | -     | -    | 16,5        | 14,6 |
| 131          | -    | -           | -    | -      | -    | -           | -    | -     | -    | 16,5        | 14,6 |
| 134          | -    | -           | -    | -      | -    | -           | -    | -     | -    | 16,2        | -    |
| 135          | -    | -           | -    | -      | -    | -           | -    | -     | -    | 16,2        | -    |
| 136          | -    | -           | -    | -      | -    | -           | -    | -     | -    | 16,5        | 14,6 |
| 138          | -    | -           | -    | -      | -    | -           | -    | -     | -    | 16,3        | -    |
| 140          | -    | -           | -    | -      | -    | -           | -    | -     | -    | 16,2        | -    |
| 142          | -    | -           | -    | -      | -    | -           | -    | -     | -    | -           | -    |
| 146          | -    | -           | -    | -      | -    | -           | -    | -     | -    | -           | -    |



0 t 65 t 95 t 125 t 165 t 205 t 265 t 325 t

# Operation

LSL+LF

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Operação · Эксплуатация

| <div> <div>165 t + 50 t</div> <div>11-19 m</div> <div>8,40 m</div> <div>9.8 m/s</div> <div>360°</div> <div>EN13000</div> </div>                                                                                                                                                                                                                              |      |      |      |      |      |      |      |      |      |      |      |      |     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|-----|
| <div> <div>132 m</div> <div>138 m</div> <div>144 m</div> <div>LSL+LF_2</div> <div>36 m</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> <div>15°</div> <div>20°</div> <div>30°</div> </div> |      |      |      |      |      |      |      |      |      |      |      |      |     |
| m                                                                                                                                                                                                                                                                                                                                                            | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | t    | m   |
| 26                                                                                                                                                                                                                                                                                                                                                           | 40,5 | 42,3 | -    | -    | 36,5 | 37,9 | -    | -    | -    | -    | -    | -    | 26  |
| 27                                                                                                                                                                                                                                                                                                                                                           | 40,5 | 42,2 | -    | -    | 36,5 | 37,8 | -    | -    | 32,5 | 33,7 | -    | -    | 27  |
| 28                                                                                                                                                                                                                                                                                                                                                           | 40,5 | 42,2 | -    | -    | 36,5 | 37,8 | -    | -    | 32,5 | 33,6 | -    | -    | 28  |
| 29                                                                                                                                                                                                                                                                                                                                                           | 40,4 | 42,0 | 34,5 | -    | 36,5 | 37,7 | 32,7 | -    | 32,4 | 33,5 | -    | -    | 29  |
| 30                                                                                                                                                                                                                                                                                                                                                           | 40,4 | 41,8 | 34,1 | -    | 36,5 | 37,7 | 32,6 | -    | 32,4 | 33,4 | 29,4 | -    | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                           | 37,8 | 40,6 | 32,6 | 20,1 | 34,9 | 37,1 | 31,6 | -    | 31,8 | 32,9 | 29,1 | -    | 34  |
| 35                                                                                                                                                                                                                                                                                                                                                           | 37,6 | 40,3 | 32,2 | 19,9 | 34,8 | 37,0 | 31,4 | 19,8 | 31,6 | 32,8 | 29,0 | 19,6 | 35  |
| 38                                                                                                                                                                                                                                                                                                                                                           | 34,5 | 39,1 | 31,2 | 19,3 | 31,8 | 36,3 | 30,6 | 19,2 | 28,9 | 32,4 | 28,7 | 19,0 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                           | 28,8 | 37,2 | 29,8 | 18,7 | 27,6 | 35,3 | 29,4 | 18,5 | 26,1 | 31,8 | 28,2 | 18,3 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                           | 24,1 | 35,4 | 28,4 | 18,0 | 23,0 | 34,0 | 28,1 | 17,8 | 21,5 | 31,1 | 27,2 | 17,6 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                           | 19,9 | 33,6 | 27,2 | 17,3 | 18,8 | 32,8 | 26,9 | 17,2 | 17,3 | 30,4 | 26,2 | 17,0 | 50  |
| 54                                                                                                                                                                                                                                                                                                                                                           | 16,1 | 32,0 | 26,0 | 16,7 | 15,1 | 31,6 | 25,8 | 16,6 | 13,7 | 29,8 | 25,3 | 16,5 | 54  |
| 58                                                                                                                                                                                                                                                                                                                                                           | 12,9 | 30,5 | 24,9 | 16,1 | 11,9 | 30,4 | 24,7 | 16,0 | 10,6 | 28,9 | 24,4 | 15,9 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                           | 10,0 | 29,1 | 23,9 | 15,6 | 9,1  | 29,2 | 23,7 | 15,5 | 7,8  | 28,0 | 23,6 | 15,3 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                           | 7,4  | 27,8 | 22,9 | 15,1 | 6,5  | 28,1 | 22,8 | 15,0 | 5,2  | 27,1 | 22,8 | 14,9 | 66  |
| 68                                                                                                                                                                                                                                                                                                                                                           | 6,2  | 27,2 | 22,4 | 14,8 | 5,3  | 27,5 | 22,4 | 14,7 | 4,0  | 26,6 | 22,4 | 14,6 | 68  |
| 70                                                                                                                                                                                                                                                                                                                                                           | 5,1  | 26,6 | 22,0 | 14,6 | 4,2  | 26,9 | 22,0 | 14,5 | -    | 26,2 | 22,0 | 14,4 | 70  |
| 71                                                                                                                                                                                                                                                                                                                                                           | 4,5  | 26,3 | 21,8 | 14,5 | 3,7  | 26,6 | 21,8 | 14,4 | -    | 26,0 | 21,8 | 14,3 | 71  |
| 72                                                                                                                                                                                                                                                                                                                                                           | 4,0  | 26,0 | 21,6 | 14,4 | -    | 26,4 | 21,6 | 14,3 | -    | 25,8 | 21,6 | 14,2 | 72  |
| 74                                                                                                                                                                                                                                                                                                                                                           | -    | 25,5 | 21,2 | 14,2 | -    | 25,8 | 21,2 | 14,1 | -    | 25,3 | 21,2 | 14,0 | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                           | -    | 24,5 | 20,5 | 13,8 | -    | 24,8 | 20,5 | 13,7 | -    | 24,4 | 20,5 | 13,7 | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                           | -    | 23,7 | 19,9 | 13,4 | -    | 23,8 | 19,9 | 13,3 | -    | 23,5 | 19,7 | 13,3 | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                           | -    | 22,9 | 19,3 | 13,0 | -    | 22,9 | 19,3 | 13,0 | -    | 22,6 | 19,1 | 12,9 | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                           | -    | 22,1 | 18,7 | 12,7 | -    | 22,2 | 18,7 | 12,7 | -    | 21,8 | 18,6 | 12,7 | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                           | -    | 21,4 | 18,1 | 12,4 | -    | 21,5 | 18,1 | 12,4 | -    | 21,0 | 18,0 | 12,3 | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                           | -    | 20,7 | 17,6 | 12,2 | -    | 20,8 | 17,6 | 12,1 | -    | 20,3 | 17,6 | 12,1 | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                          | -    | 20,2 | 17,1 | 11,9 | -    | 20,3 | 17,2 | 11,9 | -    | 19,7 | 17,1 | 11,9 | 102 |
| 106                                                                                                                                                                                                                                                                                                                                                          | -    | 19,6 | 16,7 | 11,7 | -    | 19,7 | 16,8 | 11,7 | -    | 19,0 | 16,7 | 11,6 | 106 |
| 110                                                                                                                                                                                                                                                                                                                                                          | -    | 19,0 | 16,3 | 11,5 | -    | 19,1 | 16,4 | 11,5 | -    | 18,4 | 16,3 | 11,4 | 110 |
| 114                                                                                                                                                                                                                                                                                                                                                          | -    | 18,6 | 16,0 | 11,4 | -    | 18,7 | 16,0 | 11,4 | -    | 17,9 | 16,0 | 11,3 | 114 |
| 118                                                                                                                                                                                                                                                                                                                                                          | -    | 18,1 | 15,6 | 11,2 | -    | 18,2 | 15,7 | 11,2 | -    | 17,4 | 15,6 | 11,1 | 118 |
| 122                                                                                                                                                                                                                                                                                                                                                          | -    | 17,7 | 15,3 | 11,1 | -    | 17,8 | 15,4 | 11,1 | -    | 16,9 | 15,3 | 11,0 | 122 |
| 126                                                                                                                                                                                                                                                                                                                                                          | -    | 17,4 | 15,1 | 11,1 | -    | 17,5 | 15,2 | 11,0 | -    | 16,4 | 15,1 | 10,9 | 126 |
| 130                                                                                                                                                                                                                                                                                                                                                          | -    | 17,0 | 14,9 | 11,0 | -    | 17,1 | 15,0 | 10,9 | -    | 16,1 | 14,9 | 10,8 | 130 |
| 132                                                                                                                                                                                                                                                                                                                                                          | -    | 16,9 | 14,8 | 10,9 | -    | 17,0 | 14,9 | 10,9 | -    | 16,0 | 14,8 | 10,8 | 132 |
| 134                                                                                                                                                                                                                                                                                                                                                          | -    | 16,8 | 14,8 | -    | -    | 16,8 | 14,8 | 10,9 | -    | 15,9 | 14,7 | 10,7 | 134 |
| 136                                                                                                                                                                                                                                                                                                                                                          | -    | 16,7 | 14,7 | -    | -    | 16,7 | 14,7 | 10,8 | -    | 15,8 | 14,6 | 10,7 | 136 |
| 138                                                                                                                                                                                                                                                                                                                                                          | -    | 16,6 | 14,6 | -    | -    | 16,6 | 14,6 | -    | -    | 15,8 | 14,5 | 10,7 | 138 |
| 141                                                                                                                                                                                                                                                                                                                                                          | -    | 16,4 | 14,5 | -    | -    | 16,4 | 14,5 | -    | -    | 15,7 | 14,4 | 10,7 | 141 |
| 142                                                                                                                                                                                                                                                                                                                                                          | -    | 16,4 | 14,5 | -    | -    | 16,4 | 14,4 | -    | -    | 15,6 | 14,3 | -    | 142 |
| 146                                                                                                                                                                                                                                                                                                                                                          | -    | 16,2 | 14,4 | -    | -    | 16,2 | 14,3 | -    | -    | 15,5 | 14,3 | -    | 146 |
| 147                                                                                                                                                                                                                                                                                                                                                          | -    | 16,2 | 14,4 | -    | -    | 16,2 | 14,3 | -    | -    | 15,5 | 14,2 | -    | 147 |
| 150                                                                                                                                                                                                                                                                                                                                                          | -    | 16,1 | -    | -    | -    | 16,1 | 14,3 | -    | -    | 15,5 | 14,2 | -    | 150 |
| 151                                                                                                                                                                                                                                                                                                                                                          | -    | 16,0 | -    | -    | -    | 16,0 | 14,3 | -    | -    | 15,5 | 14,1 | -    | 151 |
| 152                                                                                                                                                                                                                                                                                                                                                          | -    | -    | -    | -    | -    | 16,0 | 14,3 | -    | -    | 15,5 | 14,1 | -    | 152 |
| 154                                                                                                                                                                                                                                                                                                                                                          | -    | -    | -    | -    | -    | 16,0 | -    | -    | -    | 15,5 | 14,1 | -    | 154 |
| 156                                                                                                                                                                                                                                                                                                                                                          | -    | -    | -    | -    | -    | 16,0 | -    | -    | -    | 15,5 | 14,1 | -    | 156 |
| 158                                                                                                                                                                                                                                                                                                                                                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,5 | 5,5  | -    | 158 |
| 161                                                                                                                                                                                                                                                                                                                                                          | -    | -    | -    | -    | -    | -    | -    | -    | -    | 15,5 | -    | -    | 161 |

0 t

65 t

95 t

125 t

165 t

205 t

265 t

325 t



## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

The background of the entire page is a detailed white line drawing on a blue background. It depicts a Luffing Fly Jib crane system. The crane is mounted on a crawler chassis, which is shown at the bottom left. The main jib is a long, telescopic arm that can rotate horizontally and also luff (tilt) upwards and downwards. It is supported by a complex system of cables and pulleys. In the center of the jib, there is a platform or basket with a series of horizontal bars. To the right, another part of the crane system is visible, showing the base and the lower sections of the jib. The overall design is technical and precise, highlighting the mechanical components of the crane.

# LUFFING FLY JIB

WIPPBARER HILFSAUSLEGER

FLÉCHETTE À VOLÉE VARIABLE

FALCONE A VOLATA VARIABILE

PLUMÍN ABATIBLE

JIB DE LANCE VARIÁVEL

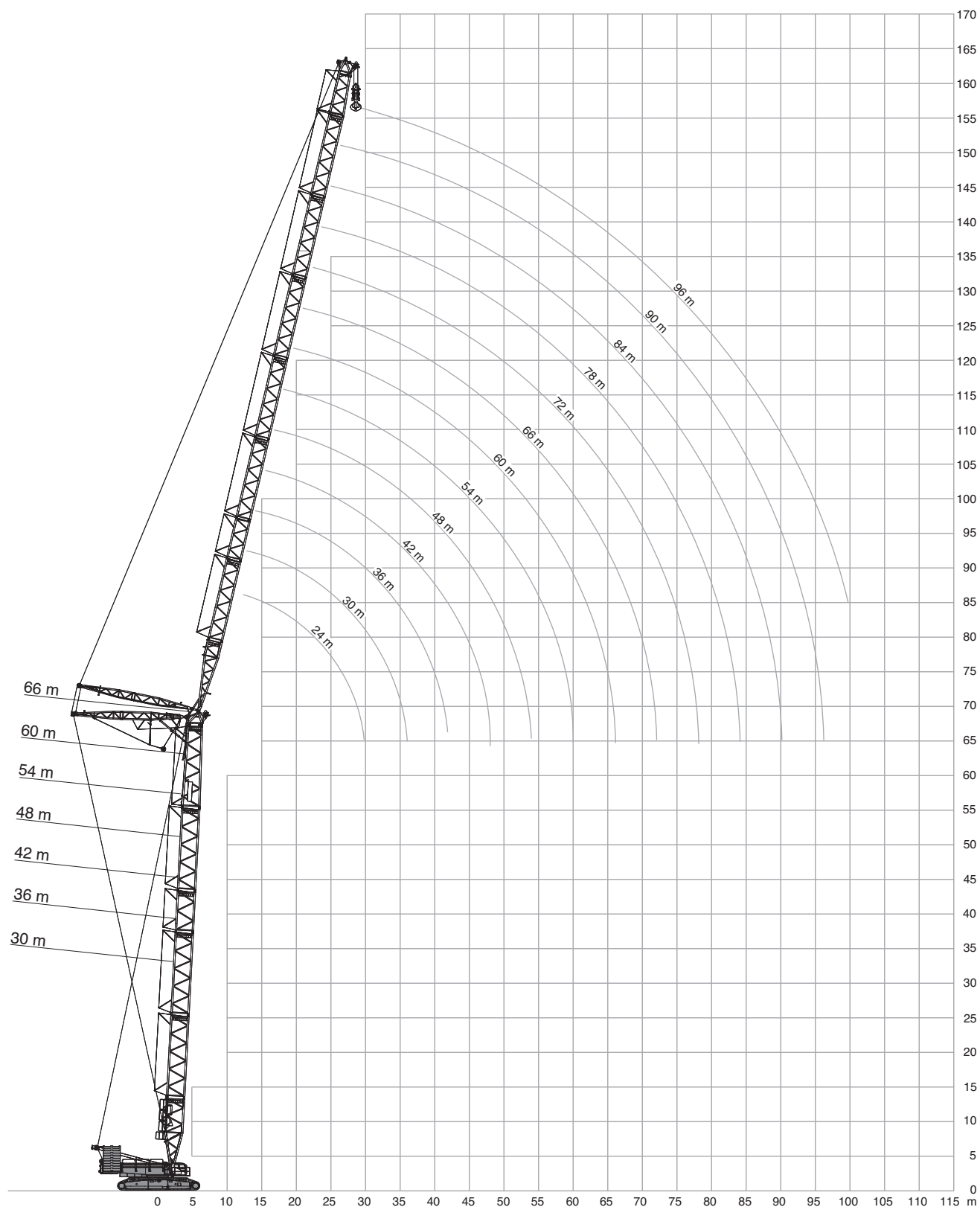
СТРЕЛА С ИЗМЕНЯЕМЫМ УГЛОМ ВЫЛЕТА И ГУСЬКОМ



# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация



# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |       |       |      |  8,40 m          |      |      |       |  9.8 m/s         |      |       |      | 360°                                                                                              |       |      |      | EN13000                                                                                           |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|---------------------------------------------------------------------------------------------------|------|------|-------|---------------------------------------------------------------------------------------------------|------|-------|------|---------------------------------------------------------------------------------------------------|-------|------|------|---------------------------------------------------------------------------------------------------|--|--|--|
|  36 m                                                                                           |       |       |      |                                                                                                   |      |      |       |                                                                                                   |      |       |      |                                                                                                   |       |      |      |                                                                                                   |  |  |  |
| 24 m                                                                                                                                                                             |       |       |      | 30 m                                                                                              |      |      |       | 36 m                                                                                              |      |       |      | 42 m                                                                                              |       |      |      | 48 m                                                                                              |  |  |  |
| SW_1                                                                                                                                                                             |       |       |      |                                                                                                   |      |      |       |                                                                                                   |      |       |      |                                                                                                   |       |      |      |                                                                                                   |  |  |  |
|  87°/85° 75° 65°                                                                                |       |       |      |  87°/85° 75° 65° |      |      |       |  87°/85° 75° 65° |      |       |      |  87°/85° 75° 65° |       |      |      |  87°/85° 75° 65° |  |  |  |
| m                                                                                                                                                                                | t     | t     | t    | t                                                                                                 | t    | t    | t     | t                                                                                                 | t    | t     | t    | t                                                                                                 | t     | t    | t    |                                                                                                   |  |  |  |
| 11                                                                                                                                                                               | 269,0 | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    |                                                                                                   |  |  |  |
| 12                                                                                                                                                                               | 247,0 | -     | -    | 236,0                                                                                             | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    |                                                                                                   |  |  |  |
| 14                                                                                                                                                                               | 213,0 | -     | -    | 204,0                                                                                             | -    | -    | 196,0 | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | -    |                                                                                                   |  |  |  |
| 15                                                                                                                                                                               | 199,0 | -     | -    | 191,0                                                                                             | -    | -    | 183,0 | -                                                                                                 | -    | 177,0 | -    | -                                                                                                 | -     | -    | -    |                                                                                                   |  |  |  |
| 16                                                                                                                                                                               | 186,0 | -     | -    | 179,0                                                                                             | -    | -    | 172,0 | -                                                                                                 | -    | 166,0 | -    | -                                                                                                 | -     | -    | -    |                                                                                                   |  |  |  |
| 17                                                                                                                                                                               | 176,0 | -     | -    | 169,0                                                                                             | -    | -    | 162,0 | -                                                                                                 | -    | 157,0 | -    | -                                                                                                 | 151,0 | -    | -    |                                                                                                   |  |  |  |
| 18                                                                                                                                                                               | 166,0 | -     | -    | 160,0                                                                                             | -    | -    | 154,0 | -                                                                                                 | -    | 149,0 | -    | -                                                                                                 | 143,0 | -    | -    |                                                                                                   |  |  |  |
| 20                                                                                                                                                                               | 148,0 | -     | -    | 144,0                                                                                             | -    | -    | 139,0 | -                                                                                                 | -    | 134,0 | -    | -                                                                                                 | 129,0 | -    | -    |                                                                                                   |  |  |  |
| 22                                                                                                                                                                               | 129,0 | -     | -    | 128,0                                                                                             | -    | -    | 126,0 | -                                                                                                 | -    | 122,0 | -    | -                                                                                                 | 117,0 | -    | -    |                                                                                                   |  |  |  |
| 23                                                                                                                                                                               | 122,0 | 109,0 | -    | 121,0                                                                                             | -    | -    | 120,0 | -                                                                                                 | -    | 117,0 | -    | -                                                                                                 | 112,0 | -    | -    |                                                                                                   |  |  |  |
| 24                                                                                                                                                                               | 115,0 | 103,0 | -    | 114,0                                                                                             | -    | -    | 114,0 | -                                                                                                 | -    | 112,0 | -    | -                                                                                                 | 107,0 | -    | -    |                                                                                                   |  |  |  |
| 26                                                                                                                                                                               | 103,0 | 93,0  | -    | 102,0                                                                                             | 91,5 | -    | 102,0 | -                                                                                                 | -    | 101,0 | -    | -                                                                                                 | 99,5  | -    | -    |                                                                                                   |  |  |  |
| 28                                                                                                                                                                               | 92,5* | 84,0  | -    | 93,0                                                                                              | 83,0 | -    | 92,5  | 82,0                                                                                              | -    | 92,0  | -    | -                                                                                                 | 91,0  | -    | -    |                                                                                                   |  |  |  |
| 30                                                                                                                                                                               | -     | 77,0  | -    | 85,0                                                                                              | 75,5 | -    | 84,0  | 74,5                                                                                              | -    | 84,0  | -    | -                                                                                                 | 82,5  | -    | -    |                                                                                                   |  |  |  |
| 31                                                                                                                                                                               | -     | 74,0  | -    | 81,6                                                                                              | 72,5 | -    | 80,8  | 71,5                                                                                              | -    | 80,7  | 70,5 | -                                                                                                 | 79,2  | -    | -    |                                                                                                   |  |  |  |
| 33                                                                                                                                                                               | -     | 68,0  | 61,0 | 75,0                                                                                              | 66,5 | -    | 74,6  | 65,5                                                                                              | -    | 74,2  | 64,8 | -                                                                                                 | 72,7  | 63,0 | -    |                                                                                                   |  |  |  |
| 34                                                                                                                                                                               | -     | 65,0  | 58,5 | 70,5*                                                                                             | 63,5 | -    | 71,5  | 62,5                                                                                              | -    | 71,0  | 62,0 | -                                                                                                 | 69,5  | 60,5 | -    |                                                                                                   |  |  |  |
| 35                                                                                                                                                                               | -     | 62,5  | 56,5 | -                                                                                                 | 61,3 | -    | 69,0  | 60,3                                                                                              | -    | 68,5  | 59,7 | -                                                                                                 | 67,0  | 58,2 | -    |                                                                                                   |  |  |  |
| 36                                                                                                                                                                               | -     | -     | 54,5 | -                                                                                                 | 59,2 | 53,0 | 66,5  | 58,2                                                                                              | -    | 66,0  | 57,5 | -                                                                                                 | 64,5  | 56,0 | -    |                                                                                                   |  |  |  |
| 38                                                                                                                                                                               | -     | -     | 50,5 | -                                                                                                 | 55,0 | 49,2 | 61,5  | 54,0                                                                                              | -    | 61,0  | 53,0 | -                                                                                                 | 59,5  | 51,5 | -    |                                                                                                   |  |  |  |
| 40                                                                                                                                                                               | -     | -     | 47,4 | -                                                                                                 | 51,5 | 45,9 | 56,0* | 50,5                                                                                              | 44,7 | 57,0  | 49,7 | -                                                                                                 | 55,7  | 48,2 | -    |                                                                                                   |  |  |  |
| 41                                                                                                                                                                               | -     | -     | 45,9 | -                                                                                                 | -    | 44,3 | -     | 48,8                                                                                              | 43,2 | 55,0  | 48,1 | -                                                                                                 | 53,8  | 46,5 | -    |                                                                                                   |  |  |  |
| 42                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | 42,9 | -     | 47,1                                                                                              | 41,7 | 53,0  | 46,5 | -                                                                                                 | 52,0  | 44,9 | -    |                                                                                                   |  |  |  |
| 43                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | 41,6 | -     | 45,7                                                                                              | 40,4 | 51,5  | 45,1 | 39,6                                                                                              | 50,4  | 43,5 | -    |                                                                                                   |  |  |  |
| 46                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | 37,9 | -     | 41,7                                                                                              | 36,7 | 46,3* | 40,9 | 35,9                                                                                              | 45,9  | 39,3 | -    |                                                                                                   |  |  |  |
| 47                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | 35,6 | -     | 39,7 | 34,8                                                                                              | 44,6  | 38,1 | 32,7 |                                                                                                   |  |  |  |
| 50                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | 32,6 | -     | 36,4 | 31,6                                                                                              | 40,9  | 34,8 | 29,6 |                                                                                                   |  |  |  |
| 52                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | 30,8 | -     | 34,5 | 29,8                                                                                              | 37,7* | 32,9 | 27,8 |                                                                                                   |  |  |  |
| 54                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | 28,1                                                                                              | -     | 31,0 | 26,0 |                                                                                                   |  |  |  |
| 58                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | 25,2                                                                                              | -     | 28,0 | 23,0 |                                                                                                   |  |  |  |
| 62                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | 20,6 |                                                                                                   |  |  |  |
| 64                                                                                                                                                                               | -     | -     | -    | -                                                                                                 | -    | -    | -     | -                                                                                                 | -    | -     | -    | -                                                                                                 | -     | -    | 19,5 |                                                                                                   |  |  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |                                                                                   |                                                                                   |  8,40 m |       |      |  9.8 m/s |      |       | 360°    |      |     | EN13000 |      |      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------|------|-------------------------------------------------------------------------------------------|------|-------|---------|------|-----|---------|------|------|--|
|  36 m                                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                          |       |      |                                                                                           |      |       |         |      |     |         |      |      |  |
|                                                                                                 |  | 54 m                                                                              |                                                                                   |                                                                                          | 60 m  |      |                                                                                           | 66 m |       |         | 72 m |     |         | SW_1 |      |  |
|                                                                                                                                                                                  |                                                                                   |                                                                                   |                                                                                   |                                                                                          |       |      |                                                                                           |      |       |         |      |     |         |      |      |  |
|                                                                                                                                                                                  |                                                                                   |  |  | 87°/85°                                                                                  | 75°   | 65°  | 87°/85°                                                                                   | 75°  | 65°   | 87°/85° | 75°  | 65° | 87°/85° | 75°  | 65°  |  |
| m                                                                                                                                                                                | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                        | t     | t    | t                                                                                         | t    | t     | t       | t    | t   | t       | t    | t    |  |
| 18                                                                                                                                                                               | 138,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -    | -     | -       | -    | -   | -       | -    | -    |  |
| 19                                                                                                                                                                               | 131,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 126,0 | -    | -                                                                                         | -    | -     | -       | -    | -   | -       | -    | -    |  |
| 20                                                                                                                                                                               | 125,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 120,0 | -    | -                                                                                         | -    | -     | -       | -    | -   | -       | -    | -    |  |
| 21                                                                                                                                                                               | 119,5                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 115,0 | -    | -                                                                                         | -    | 111,0 | -       | -    | -   | -       | -    | -    |  |
| 22                                                                                                                                                                               | 114,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 110,0 | -    | -                                                                                         | -    | 106,0 | -       | -    | -   | 99,0    | -    | -    |  |
| 24                                                                                                                                                                               | 104,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 101,0 | -    | -                                                                                         | -    | 97,5  | -       | -    | -   | 94,0    | -    | -    |  |
| 26                                                                                                                                                                               | 96,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 93,0  | -    | -                                                                                         | -    | 90,0  | -       | -    | -   | 87,0    | -    | -    |  |
| 28                                                                                                                                                                               | 89,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 86,0  | -    | -                                                                                         | -    | 83,5  | -       | -    | -   | 80,5    | -    | -    |  |
| 30                                                                                                                                                                               | 82,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 80,0  | -    | -                                                                                         | -    | 77,5  | -       | -    | -   | 74,5    | -    | -    |  |
| 34                                                                                                                                                                               | 69,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 68,5  | -    | -                                                                                         | -    | 67,5  | -       | -    | -   | 65,0    | -    | -    |  |
| 36                                                                                                                                                                               | 64,5                                                                              | 55,5                                                                              | -                                                                                 | -                                                                                        | 63,5  | -    | -                                                                                         | -    | 62,7  | -       | -    | -   | 61,0    | -    | -    |  |
| 38                                                                                                                                                                               | 59,5                                                                              | 51,5                                                                              | -                                                                                 | -                                                                                        | 58,5  | -    | -                                                                                         | -    | 58,0  | -       | -    | -   | 57,0    | -    | -    |  |
| 39                                                                                                                                                                               | 57,5                                                                              | 49,7                                                                              | -                                                                                 | -                                                                                        | 56,6  | 48,7 | -                                                                                         | -    | 56,1  | -       | -    | -   | 55,2    | -    | -    |  |
| 41                                                                                                                                                                               | 53,5                                                                              | 46,3                                                                              | -                                                                                 | -                                                                                        | 52,8  | 45,3 | -                                                                                         | -    | 52,3  | 44,4    | -    | -   | 51,6    | -    | -    |  |
| 42                                                                                                                                                                               | 51,5                                                                              | 44,6                                                                              | -                                                                                 | -                                                                                        | 51,0  | 43,6 | -                                                                                         | -    | 50,5  | 42,9    | -    | -   | 49,9    | -    | -    |  |
| 44                                                                                                                                                                               | 48,5                                                                              | 41,7                                                                              | -                                                                                 | -                                                                                        | 47,8  | 40,8 | -                                                                                         | -    | 47,3  | 40,1    | -    | -   | 46,7    | 39,1 | -    |  |
| 46                                                                                                                                                                               | 45,6                                                                              | 39,0                                                                              | -                                                                                 | -                                                                                        | 44,7  | 38,0 | -                                                                                         | -    | 44,2  | 37,3    | -    | -   | 43,5    | 36,5 | -    |  |
| 50                                                                                                                                                                               | 40,5                                                                              | 34,4                                                                              | 29,1                                                                              | -                                                                                        | 39,6  | 33,4 | -                                                                                         | -    | 39,0  | 32,6    | -    | -   | 38,3    | 31,7 | -    |  |
| 53                                                                                                                                                                               | 37,2                                                                              | 31,5                                                                              | 26,4                                                                              | -                                                                                        | 36,3  | 30,4 | 25,0                                                                                      | -    | 35,7  | 29,6    | -    | -   | 35,0    | 28,7 | -    |  |
| 54                                                                                                                                                                               | 36,2                                                                              | 30,6                                                                              | 25,5                                                                              | -                                                                                        | 35,3  | 29,5 | 24,2                                                                                      | -    | 34,6  | 28,6    | -    | -   | 34,0    | 27,7 | -    |  |
| 57                                                                                                                                                                               | 32,6*                                                                             | 28,1                                                                              | 23,2                                                                              | -                                                                                        | 32,5  | 26,8 | 21,8                                                                                      | -    | 31,8  | 26,0    | 20,9 | -   | 31,2    | 25,0 | -    |  |
| 58                                                                                                                                                                               | -                                                                                 | 27,3                                                                              | 22,5                                                                              | -                                                                                        | 31,6  | 26,0 | 21,1                                                                                      | -    | 31,0  | 25,2    | 20,1 | -   | 30,3    | 24,2 | -    |  |
| 60                                                                                                                                                                               | -                                                                                 | 25,8                                                                              | 21,2                                                                              | -                                                                                        | 30,0  | 24,5 | 19,8                                                                                      | -    | 29,4  | 23,7    | 18,8 | -   | 28,7    | 22,7 | 17,7 |  |
| 62                                                                                                                                                                               | -                                                                                 | 24,4                                                                              | 19,9                                                                              | -                                                                                        | 28,6  | 23,1 | 18,5                                                                                      | -    | 27,8  | 22,2    | 17,5 | -   | 27,1    | 21,3 | 16,5 |  |
| 63                                                                                                                                                                               | -                                                                                 | 23,8                                                                              | 19,3                                                                              | -                                                                                        | 27,1* | 22,5 | 17,9                                                                                      | -    | 27,1  | 21,5    | 16,9 | -   | 26,4    | 20,6 | 15,9 |  |
| 64                                                                                                                                                                               | -                                                                                 | 23,2                                                                              | 18,8                                                                              | -                                                                                        | -     | 21,9 | 17,4                                                                                      | -    | 26,5  | 20,9    | 16,4 | -   | 25,7    | 20,0 | 15,3 |  |
| 66                                                                                                                                                                               | -                                                                                 | -                                                                                 | 17,7                                                                              | -                                                                                        | -     | 20,7 | 16,3                                                                                      | -    | 25,2  | 19,7    | 15,3 | -   | 24,4    | 18,7 | 14,2 |  |
| 69                                                                                                                                                                               | -                                                                                 | -                                                                                 | 16,3                                                                              | -                                                                                        | -     | 19,1 | 14,8                                                                                      | -    | 22,6* | 18,0    | 13,8 | -   | 22,4    | 17,0 | 12,7 |  |
| 70                                                                                                                                                                               | -                                                                                 | -                                                                                 | 15,9                                                                              | -                                                                                        | -     | -    | 14,4                                                                                      | -    | -     | 17,5    | 13,4 | -   | 21,8    | 16,5 | 12,2 |  |
| 74                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | 12,7                                                                                      | -    | -     | 15,7    | 11,7 | -   | 18,8*   | 14,5 | 10,5 |  |
| 75                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | 12,4                                                                                      | -    | -     | 15,3    | 11,3 | -   | 18,3*   | 14,0 | 10,1 |  |
| 78                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -    | -     | -       | 10,2 | -   | -       | 12,8 | 9,0  |  |
| 81                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -    | -     | -       | 9,3  | -   | -       | 11,7 | 8,0  |  |
| 82                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -    | -     | -       | -    | -   | -       | -    | 7,7  |  |
| 86                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -    | -     | -       | -    | -   | -       | -    | 6,5  |  |
| 87                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -    | -     | -       | -    | -   | -       | -    | 6,3  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |      |  8,40 m |         |      |  9.8 m/s |         |     | 360° |         | EN13000 |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|-----|------|---------|---------|-----|
|  36 m                                                                                           |                                                                                   |         |      |                                                                                          |         |      |                                                                                           |         |     |      |         |         |     |
|                                                                                                 |  | 78 m    |      |                                                                                          | 84 m    |      |                                                                                           | 90 m    |     |      | 96 m    |         |     |
|                                                                                                                                                                                  |                                                                                   | SW_1    |      |                                                                                          |         |      |                                                                                           |         |     |      |         |         |     |
|                                                                                                 |  | 87°/85° | 75°  | 65°                                                                                      | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75° | 65°  | 87°/85° | 75°     | 65° |
| m                                                                                                                                                                                | t                                                                                 | t       | t    | t                                                                                        | t       | t    | t                                                                                         | t       | t   | t    | t       | t       | t   |
| 23                                                                                                                                                                               | 84,5                                                                              | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -   | -    | -       | -       | -   |
| 24                                                                                                                                                                               | 84,0                                                                              | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -   | -    | -       | -       | -   |
| 25                                                                                                                                                                               | 83,5                                                                              | -       | -    | 71,5                                                                                     | -       | -    | -                                                                                         | -       | -   | -    | -       | -       | -   |
| 26                                                                                                                                                                               | 83,0                                                                              | -       | -    | 71,0                                                                                     | -       | -    | 61,0                                                                                      | -       | -   | -    | -       | -       | -   |
| 27                                                                                                                                                                               | 80,2                                                                              | -       | -    | 70,5                                                                                     | -       | -    | 60,5                                                                                      | -       | -   | 52,5 | -       | -       | -   |
| 28                                                                                                                                                                               | 77,5                                                                              | -       | -    | 70,0                                                                                     | -       | -    | 60,0                                                                                      | -       | -   | 52,0 | -       | -       | -   |
| 30                                                                                                                                                                               | 72,0                                                                              | -       | -    | 69,5                                                                                     | -       | -    | 59,5                                                                                      | -       | -   | 51,5 | -       | -       | -   |
| 34                                                                                                                                                                               | 62,5                                                                              | -       | -    | 60,0                                                                                     | -       | -    | 58,0                                                                                      | -       | -   | 50,5 | -       | -       | -   |
| 38                                                                                                                                                                               | 55,0                                                                              | -       | -    | 52,5                                                                                     | -       | -    | 51,0                                                                                      | -       | -   | 48,8 | -       | -       | -   |
| 42                                                                                                                                                                               | 48,9                                                                              | -       | -    | 46,7                                                                                     | -       | -    | 44,9                                                                                      | -       | -   | 42,8 | -       | -       | -   |
| 46                                                                                                                                                                               | 42,9                                                                              | 35,5    | -    | 41,5                                                                                     | -       | -    | 39,8                                                                                      | -       | -   | 37,8 | -       | -       | -   |
| 49                                                                                                                                                                               | 39,0                                                                              | 31,9    | -    | 37,8                                                                                     | 30,3    | -    | 36,5                                                                                      | -       | -   | 34,5 | -       | -       | -   |
| 50                                                                                                                                                                               | 37,7                                                                              | 30,8    | -    | 36,6                                                                                     | 29,3    | -    | 35,4                                                                                      | -       | -   | 33,4 | -       | -       | -   |
| 51                                                                                                                                                                               | 36,6                                                                              | 29,8    | -    | 35,5                                                                                     | 28,3    | -    | 34,4                                                                                      | 26,9    | -   | 32,4 | -       | -       | -   |
| 54                                                                                                                                                                               | 33,3                                                                              | 26,8    | -    | 32,2                                                                                     | 25,3    | -    | 31,6                                                                                      | 24,4    | -   | 29,7 | 22,4    | -       | -   |
| 58                                                                                                                                                                               | 29,6                                                                              | 23,3    | -    | 28,5                                                                                     | 21,9    | -    | 28,0                                                                                      | 21,1    | -   | 26,4 | 19,6    | -       | -   |
| 62                                                                                                                                                                               | 26,4                                                                              | 20,4    | -    | 25,2                                                                                     | 18,9    | -    | 24,6                                                                                      | 18,2    | -   | 23,5 | 17,0    | -       | -   |
| 64                                                                                                                                                                               | 24,9                                                                              | 19,1    | 14,3 | 23,6                                                                                     | 17,6    | -    | 23,1                                                                                      | 16,9    | -   | 22,1 | 15,8    | -       | -   |
| 66                                                                                                                                                                               | 23,5                                                                              | 17,8    | 13,2 | 22,2                                                                                     | 16,4    | -    | 21,6                                                                                      | 15,6    | -   | 20,7 | 14,6    | -       | -   |
| 67                                                                                                                                                                               | 22,9                                                                              | 17,2    | 12,7 | 21,5                                                                                     | 15,8    | 11,2 | 20,9                                                                                      | 15,0    | -   | 20,0 | 14,0    | -       | -   |
| 70                                                                                                                                                                               | 21,0                                                                              | 15,6    | 11,3 | 19,7                                                                                     | 14,1    | 9,7  | 19,0                                                                                      | 13,4    | -   | 18,1 | 12,3    | -       | -   |
| 71                                                                                                                                                                               | 20,4                                                                              | 15,1    | 10,8 | 19,1                                                                                     | 13,6    | 9,2  | 18,4                                                                                      | 12,9    | 8,4 | 17,5 | 11,8    | -       | -   |
| 74                                                                                                                                                                               | 18,7                                                                              | 13,6    | 9,5  | 17,4                                                                                     | 12,2    | 8,0  | 16,7                                                                                      | 11,4    | 7,2 | 15,8 | 10,3    | 6,0     | -   |
| 78                                                                                                                                                                               | 16,7                                                                              | 11,9    | 8,0  | 15,4                                                                                     | 10,4    | 6,5  | 14,7                                                                                      | 9,6     | 5,6 | 13,7 | 8,6     | 4,5     | -   |
| 79                                                                                                                                                                               | 16,3                                                                              | 11,5    | 7,6  | 14,9                                                                                     | 10,0    | 6,1  | 14,2                                                                                      | 9,2     | 5,2 | 13,2 | 8,2     | 4,1     | -   |
| 81                                                                                                                                                                               | 14,6*                                                                             | 10,7    | 6,9  | 14,0                                                                                     | 9,2     | 5,4  | 13,3                                                                                      | 8,4     | 4,6 | 12,3 | 7,4     | -       | -   |
| 82                                                                                                                                                                               | -                                                                                 | 10,3    | 6,6  | 13,6                                                                                     | 8,9     | 5,1  | 12,9                                                                                      | 8,1     | 4,3 | 11,9 | 7,0     | -       | -   |
| 85                                                                                                                                                                               | -                                                                                 | 9,3     | 5,7  | 12,5                                                                                     | 7,8     | 4,2  | 11,7                                                                                      | 7,0     | -   | 10,6 | 5,9     | -       | -   |
| 86                                                                                                                                                                               | -                                                                                 | 9,0     | 5,4  | 11,3*                                                                                    | 7,5     | -    | 11,3                                                                                      | 6,7     | -   | 10,2 | 5,6     | -       | -   |
| 87                                                                                                                                                                               | -                                                                                 | 8,7     | 5,1  | -                                                                                        | 7,2     | -    | 10,9                                                                                      | 6,3     | -   | 9,8  | 5,2     | -       | -   |
| 90                                                                                                                                                                               | -                                                                                 | -       | 4,4  | -                                                                                        | 6,3     | -    | 9,8                                                                                       | 5,4     | -   | 8,8  | 4,3     | -       | -   |
| 91                                                                                                                                                                               | -                                                                                 | -       | 4,1  | -                                                                                        | 6,0     | -    | 9,5                                                                                       | 5,1     | -   | 8,4  | 4,0     | -       | -   |
| 92                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | 5,7     | -    | 8,4*                                                                                      | 4,8     | -   | 8,1  | -       | -       | -   |
| 93                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | 5,5     | -    | -                                                                                         | 4,5     | -   | 7,7  | -       | -       | -   |
| 94                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | 4,3     | -   | 7,4  | -       | -       | -   |
| 95                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | 4,0     | -   | 7,1  | -       | -       | -   |
| 98                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -   | 5,5* | -       | -       | -   |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t                                                                                                                                                        |                                                                                     |                                                                                     |                                                                                     |  8,40 m                                                                                                                                                              |                                                                                     |                                                                                     |  9.8 m/s                                                                                                                                                              |                                                                                     |                                                                                      | 360°                                                                                                                                                                                                                                                        |                                                                                       |                                                                                       | EN13000                                                                                                                                                                                                                                                     |                                                                                       |                                                                                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|
|  42 m                                                                                                                                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                       |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                        |                                                                                     |                                                                                      |                                                                                                                                                                                                                                                             |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                             |                                                                                       |                                                                                       |  |
|  24 m                                                                                                                                                                                                                                                  |                                                                                     |                                                                                     |                                                                                     |  30 m                                                                                                                                                                |                                                                                     |                                                                                     |  36 m                                                                                                                                                                 |                                                                                     |                                                                                      |  42 m                                                                                                                                                                    |                                                                                       |                                                                                       |  48 m                                                                                                                                                                    |                                                                                       |                                                                                       |  |
| SW_1                                                                                                                                                                                                                                                                                                                                    |                                                                                     |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                       |                                                                                     |                                                                                     |                                                                                                                                                                                                                                                        |                                                                                     |                                                                                      |                                                                                                                                                                                                                                                             |                                                                                       |                                                                                       |                                                                                                                                                                                                                                                             |                                                                                       |                                                                                       |  |
|     |                                                                                     |                                                                                     |                                                                                     |    |                                                                                     |                                                                                     |    |                                                                                     |                                                                                      |    |                                                                                       |                                                                                       |    |                                                                                       |                                                                                       |  |
|  m                                                                                                                                                                                                                                                     |  t |  t |  t |  t                                                                                                                                                                   |  t |  t |  t                                                                                                                                                                    |  t |  t |  t                                                                                                                                                                       |  t |  t |  t                                                                                                                                                                       |  t |  t |  |
| 12                                                                                                                                                                                                                                                                                                                                      | 236,0                                                                               | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     |  |
| 13                                                                                                                                                                                                                                                                                                                                      | 218,0                                                                               | -                                                                                   | -                                                                                   | 209,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     |  |
| 14                                                                                                                                                                                                                                                                                                                                      | 204,0                                                                               | -                                                                                   | -                                                                                   | 195,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 188,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     |  |
| 15                                                                                                                                                                                                                                                                                                                                      | 191,0                                                                               | -                                                                                   | -                                                                                   | 183,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 176,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 170,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     |  |
| 16                                                                                                                                                                                                                                                                                                                                      | 179,0                                                                               | -                                                                                   | -                                                                                   | 172,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 166,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 160,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     |  |
| 17                                                                                                                                                                                                                                                                                                                                      | 169,0                                                                               | -                                                                                   | -                                                                                   | 163,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 156,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 151,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | 145,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     |  |
| 18                                                                                                                                                                                                                                                                                                                                      | 160,0                                                                               | -                                                                                   | -                                                                                   | 154,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 148,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 143,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | 138,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     |  |
| 20                                                                                                                                                                                                                                                                                                                                      | 144,0                                                                               | -                                                                                   | -                                                                                   | 139,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 134,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 130,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | 124,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     |  |
| 22                                                                                                                                                                                                                                                                                                                                      | 129,0                                                                               | -                                                                                   | -                                                                                   | 126,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 122,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 118,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | 113,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     |  |
| 24                                                                                                                                                                                                                                                                                                                                      | 115,0                                                                               | -                                                                                   | -                                                                                   | 113,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 112,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 108,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | 104,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     |  |
| 25                                                                                                                                                                                                                                                                                                                                      | 109,0                                                                               | 95,0                                                                                | -                                                                                   | 107,5                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 106,5                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 104,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | 100,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     |  |
| 26                                                                                                                                                                                                                                                                                                                                      | 103,0                                                                               | 90,0                                                                                | -                                                                                   | 102,0                                                                                                                                                                                                                                                 | -                                                                                   | -                                                                                   | 101,0                                                                                                                                                                                                                                                  | -                                                                                   | -                                                                                    | 100,0                                                                                                                                                                                                                                                       | -                                                                                     | -                                                                                     | 96,0                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     |  |
| 28                                                                                                                                                                                                                                                                                                                                      | 91,5*                                                                               | 81,5                                                                                | -                                                                                   | 92,5                                                                                                                                                                                                                                                  | 80,0                                                                                | -                                                                                   | 92,0                                                                                                                                                                                                                                                   | -                                                                                   | -                                                                                    | 91,5                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     | 89,0                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     |  |
| 29                                                                                                                                                                                                                                                                                                                                      | 87,5*                                                                               | 78,0                                                                                | -                                                                                   | 88,5                                                                                                                                                                                                                                                  | 76,5                                                                                | -                                                                                   | 87,7                                                                                                                                                                                                                                                   | -                                                                                   | -                                                                                    | 87,5                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     | 85,5                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     |  |
| 30                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | 74,5                                                                                | -                                                                                   | 84,5                                                                                                                                                                                                                                                  | 73,0                                                                                | -                                                                                   | 83,5                                                                                                                                                                                                                                                   | 72,0                                                                                | -                                                                                    | 83,5                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     | 82,0                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     |  |
| 33                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | 65,8                                                                                | -                                                                                   | 74,5                                                                                                                                                                                                                                                  | 64,3                                                                                | -                                                                                   | 74,1                                                                                                                                                                                                                                                   | 63,3                                                                                | -                                                                                    | 73,7                                                                                                                                                                                                                                                        | 62,5                                                                                  | -                                                                                     | 72,2                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     |  |
| 34                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | 63,0                                                                                | -                                                                                   | 70,0*                                                                                                                                                                                                                                                 | 61,5                                                                                | -                                                                                   | 71,0                                                                                                                                                                                                                                                   | 60,5                                                                                | -                                                                                    | 70,5                                                                                                                                                                                                                                                        | 60,0                                                                                  | -                                                                                     | 69,0                                                                                                                                                                                                                                                        | -                                                                                     | -                                                                                     |  |
| 35                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | 60,5                                                                                | -                                                                                   | 67,0*                                                                                                                                                                                                                                                 | 59,3                                                                                | -                                                                                   | 68,5                                                                                                                                                                                                                                                   | 58,3                                                                                | -                                                                                    | 68,0                                                                                                                                                                                                                                                        | 57,7                                                                                  | -                                                                                     | 66,5                                                                                                                                                                                                                                                        | 56,0                                                                                  | -                                                                                     |  |
| 36                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | 58,0                                                                                | 51,0                                                                                | -                                                                                                                                                                                                                                                     | 57,2                                                                                | -                                                                                   | 66,0                                                                                                                                                                                                                                                   | 56,2                                                                                | -                                                                                    | 65,5                                                                                                                                                                                                                                                        | 55,5                                                                                  | -                                                                                     | 64,0                                                                                                                                                                                                                                                        | 53,9                                                                                  | -                                                                                     |  |
| 38                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | 47,6                                                                                | -                                                                                                                                                                                                                                                     | 53,0                                                                                | -                                                                                   | 61,0                                                                                                                                                                                                                                                   | 52,0                                                                                | -                                                                                    | 60,5                                                                                                                                                                                                                                                        | 51,0                                                                                  | -                                                                                     | 59,0                                                                                                                                                                                                                                                        | 49,8                                                                                  | -                                                                                     |  |
| 39                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | 46,0                                                                                | -                                                                                                                                                                                                                                                     | 51,3                                                                                | 44,3                                                                                | 59,0                                                                                                                                                                                                                                                   | 50,3                                                                                | -                                                                                    | 58,6                                                                                                                                                                                                                                                        | 49,4                                                                                  | -                                                                                     | 57,1                                                                                                                                                                                                                                                        | 48,1                                                                                  | -                                                                                     |  |
| 40                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | 44,5                                                                                | -                                                                                                                                                                                                                                                     | 49,6                                                                                | 42,8                                                                                | 55,5*                                                                                                                                                                                                                                                  | 48,6                                                                                | -                                                                                    | 56,7                                                                                                                                                                                                                                                        | 47,8                                                                                  | -                                                                                     | 55,2                                                                                                                                                                                                                                                        | 46,4                                                                                  | -                                                                                     |  |
| 42                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | 41,5                                                                                | -                                                                                                                                                                                                                                                     | 46,3                                                                                | 39,9                                                                                | -                                                                                                                                                                                                                                                      | 45,3                                                                                | 38,6                                                                                 | 53,0                                                                                                                                                                                                                                                        | 44,6                                                                                  | -                                                                                     | 51,5                                                                                                                                                                                                                                                        | 43,0                                                                                  | -                                                                                     |  |
| 43                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | 40,2                                                                                | -                                                                                                                                                                                                                                                     | -                                                                                   | 38,6                                                                                | -                                                                                                                                                                                                                                                      | 43,9                                                                                | 37,3                                                                                 | 51,4                                                                                                                                                                                                                                                        | 43,2                                                                                  | -                                                                                     | 50,0                                                                                                                                                                                                                                                        | 41,6                                                                                  | -                                                                                     |  |
| 46                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | 35,0                                                                                | -                                                                                                                                                                                                                                                      | 39,9                                                                                | 33,6                                                                                 | 45,6*                                                                                                                                                                                                                                                       | 39,2                                                                                  | 32,7                                                                                  | 45,5                                                                                                                                                                                                                                                        | 37,6                                                                                  | -                                                                                     |  |
| 48                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | 33,0                                                                                | -                                                                                                                                                                                                                                                      | 37,7                                                                                | 31,6                                                                                 | -                                                                                                                                                                                                                                                           | 37,0                                                                                  | 30,6                                                                                  | 43,0                                                                                                                                                                                                                                                        | 35,4                                                                                  | -                                                                                     |  |
| 49                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | 32,0                                                                                | -                                                                                                                                                                                                                                                      | -                                                                                   | 30,6                                                                                 | -                                                                                                                                                                                                                                                           | 35,9                                                                                  | 29,6                                                                                  | 41,7                                                                                                                                                                                                                                                        | 34,3                                                                                  | 27,5                                                                                  |  |
| 50                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | 29,6                                                                                 | -                                                                                                                                                                                                                                                           | 34,8                                                                                  | 28,6                                                                                  | 40,5                                                                                                                                                                                                                                                        | 33,2                                                                                  | 26,6                                                                                  |  |
| 52                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | 27,9                                                                                 | -                                                                                                                                                                                                                                                           | 33,0                                                                                  | 26,9                                                                                  | 37,2*                                                                                                                                                                                                                                                       | 31,3                                                                                  | 24,9                                                                                  |  |
| 54                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | 26,3                                                                                 | -                                                                                                                                                                                                                                                           | 31,2                                                                                  | 25,3                                                                                  | -                                                                                                                                                                                                                                                           | 29,4                                                                                  | 23,2                                                                                  |  |
| 55                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | 25,6                                                                                 | -                                                                                                                                                                                                                                                           | -                                                                                     | 24,6                                                                                  | -                                                                                                                                                                                                                                                           | 28,6                                                                                  | 22,5                                                                                  |  |
| 58                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | 22,5                                                                                  | -                                                                                                                                                                                                                                                           | 26,2                                                                                  | 20,4                                                                                  |  |
| 59                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | 21,9                                                                                  | -                                                                                                                                                                                                                                                           | 25,6                                                                                  | 19,8                                                                                  |  |
| 61                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | 20,8                                                                                  | -                                                                                                                                                                                                                                                           | -                                                                                     | 18,6                                                                                  |  |
| 62                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     | -                                                                                                                                                                                                                                                           | -                                                                                     | 18,0                                                                                  |  |
| 66                                                                                                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                     | -                                                                                   | -                                                                                   | -                                                                                                                                                                                                                                                      | -                                                                                   | -                                                                                    | -                                                                                                                                                                                                                                                           | -                                                                                     | -                                                                                     | -                                                                                                                                                                                                                                                           | -                                                                                     | 16,1                                                                                  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |      |  8,40 m |         |      |  9.8 m/s |         |      | 360° |         | EN13000 |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|------|------|---------|---------|-----|
|  42 m                                                                                           |                                                                                   |         |      |                                                                                          |         |      |                                                                                           |         |      |      |         |         |     |
|                                                                                                 |  | 54 m    |      |                                                                                          | 60 m    |      |                                                                                           | 66 m    |      |      | 72 m    |         |     |
|                                                                                                                                                                                  |                                                                                   | SW_1    |      |                                                                                          |         |      |                                                                                           |         |      |      |         |         |     |
|                                                                                                                                                                                  |                                                                                   | 87°/85° | 75°  | 65°                                                                                      | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75°  | 65°  | 87°/85° | 75°     | 65° |
| m                                                                                                                                                                                | t                                                                                 | t       | t    | t                                                                                        | t       | t    | t                                                                                         | t       | t    | t    | t       | t       |     |
| 18                                                                                                                                                                               | 133,0                                                                             | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -       |     |
| 20                                                                                                                                                                               | 120,0                                                                             | -       | -    | -                                                                                        | 116,0   | -    | -                                                                                         | -       | -    | -    | -       | -       |     |
| 21                                                                                                                                                                               | 115,0                                                                             | -       | -    | -                                                                                        | 111,0   | -    | -                                                                                         | 107,0   | -    | -    | -       | -       |     |
| 22                                                                                                                                                                               | 110,0                                                                             | -       | -    | -                                                                                        | 106,0   | -    | -                                                                                         | 103,0   | -    | -    | 95,0    | -       |     |
| 24                                                                                                                                                                               | 101,0                                                                             | -       | -    | -                                                                                        | 97,5    | -    | -                                                                                         | 94,5    | -    | -    | 91,0    | -       |     |
| 26                                                                                                                                                                               | 93,0                                                                              | -       | -    | -                                                                                        | 90,0    | -    | -                                                                                         | 87,0    | -    | -    | 84,0    | -       |     |
| 28                                                                                                                                                                               | 86,5                                                                              | -       | -    | -                                                                                        | 83,5    | -    | -                                                                                         | 80,5    | -    | -    | 78,0    | -       |     |
| 30                                                                                                                                                                               | 80,5                                                                              | -       | -    | -                                                                                        | 77,5    | -    | -                                                                                         | 75,0    | -    | -    | 72,5    | -       |     |
| 34                                                                                                                                                                               | 69,0                                                                              | -       | -    | -                                                                                        | 67,5    | -    | -                                                                                         | 65,5    | -    | -    | 63,0    | -       |     |
| 38                                                                                                                                                                               | 59,0                                                                              | 49,6    | -    | -                                                                                        | 58,5    | -    | -                                                                                         | 58,0    | -    | -    | 55,5    | -       |     |
| 40                                                                                                                                                                               | 55,2                                                                              | 46,1    | -    | -                                                                                        | 54,5    | 44,9 | -                                                                                         | 54,0    | -    | -    | 52,4    | -       |     |
| 42                                                                                                                                                                               | 51,5                                                                              | 42,8    | -    | -                                                                                        | 50,5    | 41,8 | -                                                                                         | 50,0    | -    | -    | 49,3    | -       |     |
| 43                                                                                                                                                                               | 49,9                                                                              | 41,4    | -    | -                                                                                        | 48,9    | 40,4 | -                                                                                         | 48,4    | 39,5 | -    | 47,8    | -       |     |
| 45                                                                                                                                                                               | 46,8                                                                              | 38,7    | -    | -                                                                                        | 45,9    | 37,6 | -                                                                                         | 45,4    | 36,8 | -    | 44,8    | 35,6    |     |
| 46                                                                                                                                                                               | 45,3                                                                              | 37,4    | -    | -                                                                                        | 44,4    | 36,3 | -                                                                                         | 43,9    | 35,5 | -    | 43,3    | 34,5    |     |
| 50                                                                                                                                                                               | 40,2                                                                              | 32,9    | -    | -                                                                                        | 39,3    | 31,7 | -                                                                                         | 38,7    | 30,8 | -    | 38,1    | 29,9    |     |
| 53                                                                                                                                                                               | 36,9                                                                              | 29,9    | 23,6 | -                                                                                        | 36,0    | 28,7 | -                                                                                         | 35,4    | 27,8 | -    | 34,7    | 26,9    |     |
| 54                                                                                                                                                                               | 35,9                                                                              | 29,0    | 22,8 | -                                                                                        | 35,0    | 27,8 | -                                                                                         | 34,4    | 26,9 | -    | 33,7    | 26,0    |     |
| 56                                                                                                                                                                               | 34,1                                                                              | 27,3    | 21,3 | -                                                                                        | 33,2    | 26,1 | 19,9                                                                                      | 32,5    | 25,2 | -    | 31,8    | 24,3    |     |
| 58                                                                                                                                                                               | 31,3*                                                                             | 25,7    | 19,9 | -                                                                                        | 31,4    | 24,4 | 18,5                                                                                      | 30,7    | 23,6 | -    | 30,0    | 22,6    |     |
| 59                                                                                                                                                                               | -                                                                                 | 25,0    | 19,3 | -                                                                                        | 30,6    | 23,7 | 17,9                                                                                      | 29,9    | 22,8 | 16,9 | 29,2    | 21,9    |     |
| 62                                                                                                                                                                               | -                                                                                 | 22,9    | 17,5 | -                                                                                        | 28,3    | 21,6 | 16,1                                                                                      | 27,6    | 20,7 | 15,1 | 26,9    | 19,8    |     |
| 63                                                                                                                                                                               | -                                                                                 | 22,3    | 16,9 | -                                                                                        | 26,6*   | 21,0 | 15,5                                                                                      | 26,9    | 20,1 | 14,5 | 26,2    | 19,1    |     |
| 64                                                                                                                                                                               | -                                                                                 | 21,7    | 16,4 | -                                                                                        | 26,0*   | 20,4 | 15,0                                                                                      | 26,2    | 19,5 | 14,0 | 25,5    | 18,5    |     |
| 65                                                                                                                                                                               | -                                                                                 | 21,1    | 15,9 | -                                                                                        | -       | 19,8 | 14,5                                                                                      | 25,5    | 18,9 | 13,5 | 24,8    | 17,9    |     |
| 66                                                                                                                                                                               | -                                                                                 | -       | 15,4 | -                                                                                        | -       | 19,2 | 14,0                                                                                      | 24,9    | 18,3 | 13,0 | 24,1    | 17,3    |     |
| 69                                                                                                                                                                               | -                                                                                 | -       | 14,0 | -                                                                                        | -       | 17,7 | 12,6                                                                                      | 22,1*   | 16,7 | 11,6 | 22,2    | 15,7    |     |
| 70                                                                                                                                                                               | -                                                                                 | -       | 13,6 | -                                                                                        | -       | 17,2 | 12,2                                                                                      | -       | 16,2 | 11,2 | 21,6    | 15,2    |     |
| 71                                                                                                                                                                               | -                                                                                 | -       | 13,2 | -                                                                                        | -       | 16,7 | 11,8                                                                                      | -       | 15,7 | 10,8 | 21,0    | 14,7    |     |
| 72                                                                                                                                                                               | -                                                                                 | -       | 12,9 | -                                                                                        | -       | -    | 11,4                                                                                      | -       | 15,3 | 10,4 | 20,5    | 14,2    |     |
| 74                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | 10,6                                                                                      | -       | 14,4 | 9,6  | 19,4    | 13,3    |     |
| 75                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | 10,2                                                                                      | -       | 14,0 | 9,2  | 17,9*   | 12,8    |     |
| 77                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | 9,6                                                                                       | -       | 13,2 | 8,5  | -       | 12,0    |     |
| 78                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | 9,3                                                                                       | -       | -    | 8,2  | -       | 11,6    |     |
| 82                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 7,0  | -       | 10,2    |     |
| 83                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 6,7  | -       | 9,9     |     |
| 84                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 6,5  | -       | -       |     |
| 86                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -       |     |
| 88                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -       |     |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |      |  8,40 m |         |     |  9.8 m/s |         |     | 360° |         | EN13000 |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|------------------------------------------------------------------------------------------|---------|-----|-------------------------------------------------------------------------------------------|---------|-----|------|---------|---------|-----|
|  42 m                                                                                           |                                                                                   |         |      |                                                                                          |         |     |                                                                                           |         |     |      |         |         |     |
|                                                                                                 |  | 78 m    |      |                                                                                          | 84 m    |     |                                                                                           | 90 m    |     |      | 96 m    |         |     |
|                                                                                                                                                                                  |                                                                                   | SW_1    |      |                                                                                          |         |     |                                                                                           |         |     |      |         |         |     |
|                                                                                                                                                                                  |                                                                                   | 87°/85° | 75°  | 65°                                                                                      | 87°/85° | 75° | 65°                                                                                       | 87°/85° | 75° | 65°  | 87°/85° | 75°     | 65° |
| m                                                                                                                                                                                | t                                                                                 | t       | t    | t                                                                                        | t       | t   | t                                                                                         | t       | t   | t    | t       | t       |     |
| 24                                                                                                                                                                               | 80,5                                                                              | -       | -    | -                                                                                        | -       | -   | -                                                                                         | -       | -   | -    | -       | -       |     |
| 25                                                                                                                                                                               | 80,0                                                                              | -       | -    | 68,5                                                                                     | -       | -   | -                                                                                         | -       | -   | -    | -       | -       |     |
| 26                                                                                                                                                                               | 79,5                                                                              | -       | -    | 68,0                                                                                     | -       | -   | 58,5                                                                                      | -       | -   | -    | -       | -       |     |
| 28                                                                                                                                                                               | 75,0                                                                              | -       | -    | 67,5                                                                                     | -       | -   | 58,0                                                                                      | -       | -   | 50,0 | -       | -       |     |
| 30                                                                                                                                                                               | 70,0                                                                              | -       | -    | 66,5                                                                                     | -       | -   | 57,0                                                                                      | -       | -   | 49,7 | -       | -       |     |
| 34                                                                                                                                                                               | 60,5                                                                              | -       | -    | 58,5                                                                                     | -       | -   | 56,0                                                                                      | -       | -   | 48,7 | -       | -       |     |
| 38                                                                                                                                                                               | 53,5                                                                              | -       | -    | 51,0                                                                                     | -       | -   | 49,3                                                                                      | -       | -   | 47,1 | -       | -       |     |
| 42                                                                                                                                                                               | 47,4                                                                              | -       | -    | 45,2                                                                                     | -       | -   | 43,4                                                                                      | -       | -   | 41,3 | -       | -       |     |
| 46                                                                                                                                                                               | 42,2                                                                              | -       | -    | 40,1                                                                                     | -       | -   | 38,5                                                                                      | -       | -   | 36,4 | -       | -       |     |
| 48                                                                                                                                                                               | 39,9                                                                              | 30,7    | -    | 37,9                                                                                     | -       | -   | 36,3                                                                                      | -       | -   | 34,3 | -       | -       |     |
| 50                                                                                                                                                                               | 37,4                                                                              | 28,9    | -    | 35,8                                                                                     | 26,7    | -   | 34,2                                                                                      | -       | -   | 32,2 | -       | -       |     |
| 53                                                                                                                                                                               | 34,1                                                                              | 26,0    | -    | 32,9                                                                                     | 24,3    | -   | 31,4                                                                                      | 22,7    | -   | 29,5 | -       | -       |     |
| 54                                                                                                                                                                               | 33,1                                                                              | 25,1    | -    | 32,0                                                                                     | 23,5    | -   | 30,5                                                                                      | 21,9    | -   | 28,6 | -       | -       |     |
| 55                                                                                                                                                                               | 32,1                                                                              | 24,2    | -    | 31,0                                                                                     | 22,6    | -   | 29,6                                                                                      | 21,2    | -   | 27,8 | 19,2    | -       |     |
| 58                                                                                                                                                                               | 29,4                                                                              | 21,7    | -    | 28,3                                                                                     | 20,2    | -   | 27,2                                                                                      | 19,2    | -   | 25,4 | 17,2    | -       |     |
| 62                                                                                                                                                                               | 26,2                                                                              | 18,9    | -    | 24,9                                                                                     | 17,4    | -   | 24,3                                                                                      | 16,6    | -   | 22,6 | 14,9    | -       |     |
| 66                                                                                                                                                                               | 23,3                                                                              | 16,4    | 10,9 | 22,0                                                                                     | 14,9    | -   | 21,3                                                                                      | 14,2    | -   | 20,1 | 12,8    | -       |     |
| 70                                                                                                                                                                               | 20,7                                                                              | 14,2    | 9,1  | 19,4                                                                                     | 12,8    | 7,5 | 18,8                                                                                      | 12,0    | -   | 17,8 | 10,9    | -       |     |
| 73                                                                                                                                                                               | 19,0                                                                              | 12,7    | 7,9  | 17,7                                                                                     | 11,3    | 6,3 | 17,0                                                                                      | 10,5    | 5,4 | 16,1 | 9,5     | -       |     |
| 74                                                                                                                                                                               | 18,5                                                                              | 12,3    | 7,5  | 17,2                                                                                     | 10,9    | 5,9 | 16,5                                                                                      | 10,1    | 5,0 | 15,6 | 9,1     | -       |     |
| 76                                                                                                                                                                               | 17,5                                                                              | 11,5    | 6,7  | 16,1                                                                                     | 10,0    | 5,2 | 15,5                                                                                      | 9,2     | 4,3 | 14,5 | 8,2     | -       |     |
| 78                                                                                                                                                                               | 16,5                                                                              | 10,7    | 6,0  | 15,2                                                                                     | 9,2     | 4,5 | 14,5                                                                                      | 8,4     | -   | 13,5 | 7,4     | -       |     |
| 79                                                                                                                                                                               | 16,0                                                                              | 10,3    | 5,7  | 14,7                                                                                     | 8,8     | 4,1 | 14,0                                                                                      | 8,0     | -   | 13,0 | 7,0     | -       |     |
| 81                                                                                                                                                                               | 14,2*                                                                             | 9,5     | 5,1  | 13,8                                                                                     | 8,0     | -   | 13,1                                                                                      | 7,3     | -   | 12,1 | 6,2     | -       |     |
| 82                                                                                                                                                                               | -                                                                                 | 9,2     | 4,8  | 13,4                                                                                     | 7,7     | -   | 12,7                                                                                      | 6,9     | -   | 11,7 | 5,8     | -       |     |
| 84                                                                                                                                                                               | -                                                                                 | 8,5     | 4,2  | 12,6                                                                                     | 7,0     | -   | 11,8                                                                                      | 6,2     | -   | 10,9 | 5,1     | -       |     |
| 86                                                                                                                                                                               | -                                                                                 | 7,9     | -    | 10,9*                                                                                    | 6,4     | -   | 11,0                                                                                      | 5,6     | -   | 10,1 | 4,5     | -       |     |
| 87                                                                                                                                                                               | -                                                                                 | 7,6     | -    | 10,6*                                                                                    | 6,1     | -   | 10,6                                                                                      | 5,2     | -   | 9,7  | 4,2     | -       |     |
| 88                                                                                                                                                                               | -                                                                                 | 7,3     | -    | -                                                                                        | 5,8     | -   | 10,3                                                                                      | 4,9     | -   | 9,3  | -       | -       |     |
| 90                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | 5,2     | -   | 9,6                                                                                       | 4,3     | -   | 8,6  | -       | -       |     |
| 91                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | 4,9     | -   | 9,3                                                                                       | 4,1     | -   | 8,2  | -       | -       |     |
| 93                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | 4,4     | -   | 7,8*                                                                                      | -       | -   | 7,6  | -       | -       |     |
| 94                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | 4,2     | -   | -                                                                                         | -       | -   | 7,3  | -       | -       |     |
| 98                                                                                                                                                                               | -                                                                                 | -       | -    | -                                                                                        | -       | -   | -                                                                                         | -       | -   | 5,2* | -       | -       |     |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t                                                                      |         |      |      |  8,40 m                                                                            |      |      |  9.8 m/s                                                                           |      |      | 360°                                                                                                                                                                    |      |      | EN13000                                                                                                                                                                 |      |      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|
|  48 m                                                                                                                                                                |         |      |      |                                                                                                                                                                     |      |      |                                                                                                                                                                     |      |      |                                                                                                                                                                         |      |      |                                                                                                                                                                         |      |      |
|  24 m                                                                                                                                                                |         |      |      |  30 m                                                                              |      |      |  36 m                                                                              |      |      |  42 m                                                                                |      |      |  48 m                                                                                |      |      |
| SW_1                                                                                                                                                                                                                                                  |         |      |      |                                                                                                                                                                     |      |      |                                                                                                                                                                     |      |      |                                                                                                                                                                         |      |      |                                                                                                                                                                         |      |      |
|    |         |      |      |   |      |      |   |      |      |   |      |      |   |      |      |
|                                                                                     | 87°/85° | 75°  | 65°  | 87°/85°                                                                                                                                                             | 75°  | 65°  | 87°/85°                                                                                                                                                             | 75°  | 65°  | 87°/85°                                                                                                                                                                 | 75°  | 65°  | 87°/85°                                                                                                                                                                 | 75°  | 65°  |
| m                                                                                                                                                                                                                                                     | t       | t    | t    | t                                                                                                                                                                   | t    | t    | t                                                                                                                                                                   | t    | t    | t                                                                                                                                                                       | t    | t    | t                                                                                                                                                                       | t    | t    |
| 12                                                                                                                                                                                                                                                    | 225,0   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | -    | -                                                                                                                                                                       | -    | -    |
| 13                                                                                                                                                                                                                                                    | 209,0   | -    | -    | 200,0                                                                                                                                                               | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | -    | -                                                                                                                                                                       | -    | -    |
| 14                                                                                                                                                                                                                                                    | 195,0   | -    | -    | 187,0                                                                                                                                                               | -    | -    | 180,0                                                                                                                                                               | -    | -    | -                                                                                                                                                                       | -    | -    | -                                                                                                                                                                       | -    | -    |
| 16                                                                                                                                                                                                                                                    | 172,0   | -    | -    | 166,0                                                                                                                                                               | -    | -    | 159,0                                                                                                                                                               | -    | -    | 154,0                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | -    |
| 17                                                                                                                                                                                                                                                    | 162,0   | -    | -    | 156,0                                                                                                                                                               | -    | -    | 150,0                                                                                                                                                               | -    | -    | 146,0                                                                                                                                                                   | -    | -    | 140,0                                                                                                                                                                   | -    | -    |
| 18                                                                                                                                                                                                                                                    | 154,0   | -    | -    | 148,0                                                                                                                                                               | -    | -    | 143,0                                                                                                                                                               | -    | -    | 138,0                                                                                                                                                                   | -    | -    | 132,0                                                                                                                                                                   | -    | -    |
| 20                                                                                                                                                                                                                                                    | 139,0   | -    | -    | 134,0                                                                                                                                                               | -    | -    | 129,0                                                                                                                                                               | -    | -    | 125,0                                                                                                                                                                   | -    | -    | 120,0                                                                                                                                                                   | -    | -    |
| 22                                                                                                                                                                                                                                                    | 127,0   | -    | -    | 122,0                                                                                                                                                               | -    | -    | 118,0                                                                                                                                                               | -    | -    | 114,0                                                                                                                                                                   | -    | -    | 110,0                                                                                                                                                                   | -    | -    |
| 24                                                                                                                                                                                                                                                    | 114,0   | -    | -    | 112,0                                                                                                                                                               | -    | -    | 108,0                                                                                                                                                               | -    | -    | 105,0                                                                                                                                                                   | -    | -    | 101,0                                                                                                                                                                   | -    | -    |
| 26                                                                                                                                                                                                                                                    | 102,0   | -    | -    | 101,0                                                                                                                                                               | -    | -    | 100,0                                                                                                                                                               | -    | -    | 97,0                                                                                                                                                                    | -    | -    | 93,0                                                                                                                                                                    | -    | -    |
| 27                                                                                                                                                                                                                                                    | 97,5    | 82,5 | -    | 96,5                                                                                                                                                                | -    | -    | 95,7                                                                                                                                                                | -    | -    | 93,7                                                                                                                                                                    | -    | -    | 89,7                                                                                                                                                                    | -    | -    |
| 28                                                                                                                                                                                                                                                    | 93,0    | 78,5 | -    | 92,0                                                                                                                                                                | -    | -    | 91,5                                                                                                                                                                | -    | -    | 90,5                                                                                                                                                                    | -    | -    | 86,5                                                                                                                                                                    | -    | -    |
| 29                                                                                                                                                                                                                                                    | 86,5*   | 75,0 | -    | 87,7                                                                                                                                                                | 73,5 | -    | 87,2                                                                                                                                                                | -    | -    | 86,7                                                                                                                                                                    | -    | -    | 83,5                                                                                                                                                                    | -    | -    |
| 30                                                                                                                                                                                                                                                    | -       | 71,5 | -    | 83,5                                                                                                                                                                | 70,0 | -    | 83,0                                                                                                                                                                | -    | -    | 83,0                                                                                                                                                                    | -    | -    | 80,5                                                                                                                                                                    | -    | -    |
| 32                                                                                                                                                                                                                                                    | -       | 66,0 | -    | 77,2                                                                                                                                                                | 64,5 | -    | 76,7                                                                                                                                                                | 63,0 | -    | 76,5                                                                                                                                                                    | -    | -    | 74,5                                                                                                                                                                    | -    | -    |
| 34                                                                                                                                                                                                                                                    | -       | 60,5 | -    | 71,0                                                                                                                                                                | 59,0 | -    | 70,5                                                                                                                                                                | 58,0 | -    | 70,0                                                                                                                                                                    | 57,5 | -    | 68,5                                                                                                                                                                    | -    | -    |
| 35                                                                                                                                                                                                                                                    | -       | 58,3 | -    | 66,5*                                                                                                                                                               | 56,8 | -    | 68,0                                                                                                                                                                | 55,9 | -    | 67,5                                                                                                                                                                    | 55,4 | -    | 66,1                                                                                                                                                                    | -    | -    |
| 37                                                                                                                                                                                                                                                    | -       | 54,1 | -    | -                                                                                                                                                                   | 52,6 | -    | 63,0                                                                                                                                                                | 51,8 | -    | 62,5                                                                                                                                                                    | 51,2 | -    | 61,3                                                                                                                                                                    | 49,5 | -    |
| 38                                                                                                                                                                                                                                                    | -       | 52,0 | 44,0 | -                                                                                                                                                                   | 50,5 | -    | 60,5                                                                                                                                                                | 49,8 | -    | 60,0                                                                                                                                                                    | 49,2 | -    | 59,0                                                                                                                                                                    | 47,6 | -    |
| 41                                                                                                                                                                                                                                                    | -       | -    | 39,5 | -                                                                                                                                                                   | 45,7 | -    | 53,0*                                                                                                                                                               | 44,8 | -    | 54,3                                                                                                                                                                    | 44,1 | -    | 53,0                                                                                                                                                                    | 42,6 | -    |
| 42                                                                                                                                                                                                                                                    | -       | -    | 38,0 | -                                                                                                                                                                   | 44,2 | 36,1 | -                                                                                                                                                                   | 43,2 | -    | 52,5                                                                                                                                                                    | 42,6 | -    | 51,0                                                                                                                                                                    | 41,0 | -    |
| 44                                                                                                                                                                                                                                                    | -       | -    | 35,7 | -                                                                                                                                                                   | 41,6 | 33,7 | -                                                                                                                                                                   | 40,6 | -    | 49,4                                                                                                                                                                    | 39,9 | -    | 48,0                                                                                                                                                                    | 38,3 | -    |
| 45                                                                                                                                                                                                                                                    | -       | -    | 34,5 | -                                                                                                                                                                   | -    | 32,5 | -                                                                                                                                                                   | 39,3 | 31,2 | 47,9                                                                                                                                                                    | 38,6 | -    | 46,5                                                                                                                                                                    | 37,0 | -    |
| 46                                                                                                                                                                                                                                                    | -       | -    | 33,4 | -                                                                                                                                                                   | -    | 31,4 | -                                                                                                                                                                   | 38,0 | 30,1 | 44,9*                                                                                                                                                                   | 37,3 | -    | 45,1                                                                                                                                                                    | 35,7 | -    |
| 47                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | 30,4 | -                                                                                                                                                                   | 36,9 | 29,1 | 43,7*                                                                                                                                                                   | 36,2 | -    | 43,8                                                                                                                                                                    | 34,5 | -    |
| 49                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | 28,6 | -                                                                                                                                                                   | 34,8 | 27,2 | -                                                                                                                                                                       | 34,0 | 26,3 | 41,3                                                                                                                                                                    | 32,3 | -    |
| 50                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | 27,7 | -                                                                                                                                                                   | -    | 26,3 | -                                                                                                                                                                       | 33,0 | 25,4 | 40,1                                                                                                                                                                    | 31,2 | -    |
| 51                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | 26,9 | -                                                                                                                                                                   | -    | 25,5 | -                                                                                                                                                                       | 32,1 | 24,6 | 39,0                                                                                                                                                                    | 30,2 | -    |
| 52                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | 24,7 | -                                                                                                                                                                       | 31,2 | 23,8 | 36,6*                                                                                                                                                                   | 29,3 | 21,7 |
| 53                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | 23,9 | -                                                                                                                                                                       | 30,3 | 23,0 | 35,6*                                                                                                                                                                   | 28,4 | 20,9 |
| 54                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | 23,2 | -                                                                                                                                                                       | 29,4 | 22,2 | -                                                                                                                                                                       | 27,5 | 20,2 |
| 55                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | 22,5 | -                                                                                                                                                                       | 28,7 | 21,5 | -                                                                                                                                                                       | 26,7 | 19,5 |
| 57                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | 21,3 | -                                                                                                                                                                       | -    | 20,2 | -                                                                                                                                                                       | 25,1 | 18,1 |
| 58                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | 19,6 | -                                                                                                                                                                       | 24,4 | 17,5 |
| 61                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | 18,0 | -                                                                                                                                                                       | 22,5 | 15,8 |
| 62                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | 17,5 | -                                                                                                                                                                       | -    | 15,3 |
| 63                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | 17,1 | -                                                                                                                                                                       | -    | 14,8 |
| 66                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | -    | -                                                                                                                                                                       | -    | 13,5 |
| 69                                                                                                                                                                                                                                                    | -       | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                   | -    | -    | -                                                                                                                                                                       | -    | -    | -                                                                                                                                                                       | -    | 12,4 |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |                                                                                           |      |  8,40 m |                                                                                           |      |  9.8 m/s |                                                                                           |      | 360° |                                                                                           | EN13000 |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------|------|-------------------------------------------------------------------------------------------|---------|-----|
|  48 m                                                                                           |                                                                                   |                                                                                           |      |                                                                                          |                                                                                           |      |                                                                                           |                                                                                           |      |      |                                                                                           |         |     |
|                                                                                                 |  | 54 m                                                                                      |      |                                                                                          | 60 m                                                                                      |      |                                                                                           | 66 m                                                                                      |      |      | 72 m                                                                                      |         |     |
|                                                                                                                                                                                  |                                                                                   | SW_1                                                                                      |      |                                                                                          |                                                                                           |      |                                                                                           |                                                                                           |      |      |                                                                                           |         |     |
|                                                                                                                                                                                  |                                                                                   |  87°/85° | 75°  | 65°                                                                                      |  87°/85° | 75°  | 65°                                                                                       |  87°/85° | 75°  | 65°  |  87°/85° | 75°     | 65° |
| m                                                                                                                                                                                | t                                                                                 | t                                                                                         | t    | t                                                                                        | t                                                                                         | t    | t                                                                                         | t                                                                                         | t    | t    | t                                                                                         | t       |     |
| 19                                                                                                                                                                               | 122,0                                                                             | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | -                                                                                         | -                                                                                         | -    | -    | -                                                                                         | -       |     |
| 20                                                                                                                                                                               | 116,0                                                                             | -                                                                                         | -    | -                                                                                        | 112,0                                                                                     | -    | -                                                                                         | -                                                                                         | -    | -    | -                                                                                         | -       |     |
| 21                                                                                                                                                                               | 111,0                                                                             | -                                                                                         | -    | -                                                                                        | 107,0                                                                                     | -    | -                                                                                         | 102,0                                                                                     | -    | -    | -                                                                                         | -       |     |
| 22                                                                                                                                                                               | 106,0                                                                             | -                                                                                         | -    | -                                                                                        | 102,0                                                                                     | -    | -                                                                                         | 99,5                                                                                      | -    | -    | -                                                                                         | -       |     |
| 23                                                                                                                                                                               | 101,7                                                                             | -                                                                                         | -    | -                                                                                        | 98,0                                                                                      | -    | -                                                                                         | 95,2                                                                                      | -    | -    | 88,5                                                                                      | -       |     |
| 24                                                                                                                                                                               | 97,5                                                                              | -                                                                                         | -    | -                                                                                        | 94,0                                                                                      | -    | -                                                                                         | 91,0                                                                                      | -    | -    | 88,0                                                                                      | -       |     |
| 26                                                                                                                                                                               | 90,0                                                                              | -                                                                                         | -    | -                                                                                        | 87,0                                                                                      | -    | -                                                                                         | 84,0                                                                                      | -    | -    | 81,0                                                                                      | -       |     |
| 28                                                                                                                                                                               | 83,5                                                                              | -                                                                                         | -    | -                                                                                        | 80,5                                                                                      | -    | -                                                                                         | 78,0                                                                                      | -    | -    | 75,0                                                                                      | -       |     |
| 30                                                                                                                                                                               | 78,0                                                                              | -                                                                                         | -    | -                                                                                        | 75,0                                                                                      | -    | -                                                                                         | 72,5                                                                                      | -    | -    | 70,0                                                                                      | -       |     |
| 34                                                                                                                                                                               | 68,0                                                                              | -                                                                                         | -    | -                                                                                        | 65,5                                                                                      | -    | -                                                                                         | 63,5                                                                                      | -    | -    | 61,0                                                                                      | -       |     |
| 38                                                                                                                                                                               | 59,0                                                                              | -                                                                                         | -    | -                                                                                        | 58,0                                                                                      | -    | -                                                                                         | 56,0                                                                                      | -    | -    | 53,5                                                                                      | -       |     |
| 39                                                                                                                                                                               | 57,0                                                                              | 45,6                                                                                      | -    | -                                                                                        | 56,0                                                                                      | -    | -                                                                                         | 54,4                                                                                      | -    | -    | 52,0                                                                                      | -       |     |
| 42                                                                                                                                                                               | 51,0                                                                              | 40,8                                                                                      | -    | -                                                                                        | 50,0                                                                                      | 39,7 | -                                                                                         | 49,8                                                                                      | -    | -    | 47,8                                                                                      | -       |     |
| 44                                                                                                                                                                               | 48,0                                                                              | 38,1                                                                                      | -    | -                                                                                        | 47,0                                                                                      | 36,9 | -                                                                                         | 46,6                                                                                      | 35,8 | -    | 45,2                                                                                      | -       |     |
| 46                                                                                                                                                                               | 45,0                                                                              | 35,5                                                                                      | -    | -                                                                                        | 44,1                                                                                      | 34,2 | -                                                                                         | 43,5                                                                                      | 33,3 | -    | 42,6                                                                                      | -       |     |
| 47                                                                                                                                                                               | 43,7                                                                              | 34,3                                                                                      | -    | -                                                                                        | 42,8                                                                                      | 33,0 | -                                                                                         | 42,2                                                                                      | 32,1 | -    | 41,4                                                                                      | 30,5    |     |
| 50                                                                                                                                                                               | 39,9                                                                              | 30,9                                                                                      | -    | -                                                                                        | 39,0                                                                                      | 29,7 | -                                                                                         | 38,4                                                                                      | 28,8 | -    | 37,8                                                                                      | 27,9    |     |
| 54                                                                                                                                                                               | 35,6                                                                              | 27,1                                                                                      | -    | -                                                                                        | 34,7                                                                                      | 25,9 | -                                                                                         | 34,1                                                                                      | 25,0 | -    | 33,5                                                                                      | 24,1    |     |
| 55                                                                                                                                                                               | 34,7                                                                              | 26,3                                                                                      | 19,1 | -                                                                                        | 33,7                                                                                      | 25,1 | -                                                                                         | 33,1                                                                                      | 24,2 | -    | 32,5                                                                                      | 23,3    |     |
| 58                                                                                                                                                                               | 30,8*                                                                             | 24,0                                                                                      | 17,1 | -                                                                                        | 31,1                                                                                      | 22,7 | -                                                                                         | 30,4                                                                                      | 21,8 | -    | 29,8                                                                                      | 20,9    |     |
| 59                                                                                                                                                                               | -                                                                                 | 23,3                                                                                      | 16,5 | -                                                                                        | 30,3                                                                                      | 22,0 | 15,1                                                                                      | 29,6                                                                                      | 21,1 | -    | 29,0                                                                                      | 20,2    |     |
| 62                                                                                                                                                                               | -                                                                                 | 21,3                                                                                      | 14,8 | -                                                                                        | 28,0                                                                                      | 20,0 | 13,5                                                                                      | 27,3                                                                                      | 19,1 | 12,5 | 26,6                                                                                      | 18,2    |     |
| 64                                                                                                                                                                               | -                                                                                 | 20,1                                                                                      | 13,8 | -                                                                                        | 25,5*                                                                                     | 18,8 | 12,4                                                                                      | 26,0                                                                                      | 17,9 | 11,5 | 25,2                                                                                      | 17,0    |     |
| 66                                                                                                                                                                               | -                                                                                 | 19,0                                                                                      | 12,9 | -                                                                                        | -                                                                                         | 17,7 | 11,5                                                                                      | 24,7                                                                                      | 16,7 | 10,5 | 23,8                                                                                      | 15,8    |     |
| 67                                                                                                                                                                               | -                                                                                 | 18,5                                                                                      | 12,4 | -                                                                                        | -                                                                                         | 17,2 | 11,0                                                                                      | 24,1                                                                                      | 16,2 | 10,0 | 23,2                                                                                      | 15,2    |     |
| 70                                                                                                                                                                               | -                                                                                 | -                                                                                         | 11,2 | -                                                                                        | -                                                                                         | 15,7 | 9,8                                                                                       | 21,0*                                                                                     | 14,7 | 8,8  | 21,3                                                                                      | 13,7    |     |
| 73                                                                                                                                                                               | -                                                                                 | -                                                                                         | 10,2 | -                                                                                        | -                                                                                         | 14,4 | 8,7                                                                                       | -                                                                                         | 13,3 | 7,7  | 19,6                                                                                      | 12,3    |     |
| 74                                                                                                                                                                               | -                                                                                 | -                                                                                         | 9,9  | -                                                                                        | -                                                                                         | -    | 8,4                                                                                       | -                                                                                         | 12,9 | 7,3  | 19,1                                                                                      | 11,9    |     |
| 75                                                                                                                                                                               | -                                                                                 | -                                                                                         | 9,6  | -                                                                                        | -                                                                                         | -    | 8,0                                                                                       | -                                                                                         | 12,5 | 6,9  | 17,4*                                                                                     | 11,5    |     |
| 76                                                                                                                                                                               | -                                                                                 | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | 7,7                                                                                       | -                                                                                         | 12,1 | 6,6  | 17,0*                                                                                     | 11,1    |     |
| 78                                                                                                                                                                               | -                                                                                 | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | 7,1                                                                                       | -                                                                                         | 11,4 | 6,0  | -                                                                                         | 10,3    |     |
| 80                                                                                                                                                                               | -                                                                                 | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | 6,6                                                                                       | -                                                                                         | -    | 5,4  | -                                                                                         | 9,6     |     |
| 81                                                                                                                                                                               | -                                                                                 | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | -                                                                                         | -                                                                                         | -    | 5,1  | -                                                                                         | 9,2     |     |
| 82                                                                                                                                                                               | -                                                                                 | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | -                                                                                         | -                                                                                         | -    | 4,9  | -                                                                                         | 8,9     |     |
| 84                                                                                                                                                                               | -                                                                                 | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | -                                                                                         | -                                                                                         | -    | 4,4  | -                                                                                         | 8,3     |     |
| 86                                                                                                                                                                               | -                                                                                 | -                                                                                         | -    | -                                                                                        | -                                                                                         | -    | -                                                                                         | -                                                                                         | -    | 4,0  | -                                                                                         | -       |     |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |     |  8,40 m |         |     |  9.8 m/s |         |     | 360° |         | EN13000 |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----|------------------------------------------------------------------------------------------|---------|-----|-------------------------------------------------------------------------------------------|---------|-----|------|---------|---------|-----|
|  48 m                                                                                           |                                                                                   |         |     |                                                                                          |         |     |                                                                                           |         |     |      |         |         |     |
|                                                                                                 |  | 78 m    |     |                                                                                          | 84 m    |     |                                                                                           | 90 m    |     |      | 96 m    |         |     |
|                                                                                                                                                                                  |                                                                                   | SW_1    |     |                                                                                          |         |     |                                                                                           |         |     |      |         |         |     |
|                                                                                                                                                                                  |                                                                                   | 87°/85° | 75° | 65°                                                                                      | 87°/85° | 75° | 65°                                                                                       | 87°/85° | 75° | 65°  | 87°/85° | 75°     | 65° |
| m                                                                                                                                                                                | t                                                                                 | t       | t   | t                                                                                        | t       | t   | t                                                                                         | t       | t   | t    | t       | t       |     |
| 24                                                                                                                                                                               | 75,5                                                                              | -       | -   | -                                                                                        | -       | -   | -                                                                                         | -       | -   | -    | -       | -       |     |
| 25                                                                                                                                                                               | 75,2                                                                              | -       | -   | 64,5                                                                                     | -       | -   | -                                                                                         | -       | -   | -    | -       | -       |     |
| 26                                                                                                                                                                               | 75,0                                                                              | -       | -   | 64,0                                                                                     | -       | -   | -                                                                                         | -       | -   | -    | -       | -       |     |
| 27                                                                                                                                                                               | 73,7                                                                              | -       | -   | 63,7                                                                                     | -       | -   | 55,0                                                                                      | -       | -   | -    | -       | -       |     |
| 28                                                                                                                                                                               | 72,5                                                                              | -       | -   | 63,5                                                                                     | -       | -   | 54,5                                                                                      | -       | -   | 47,3 | -       | -       |     |
| 30                                                                                                                                                                               | 67,5                                                                              | -       | -   | 63,0                                                                                     | -       | -   | 54,0                                                                                      | -       | -   | 46,9 | -       | -       |     |
| 34                                                                                                                                                                               | 58,5                                                                              | -       | -   | 56,0                                                                                     | -       | -   | 53,0                                                                                      | -       | -   | 46,0 | -       | -       |     |
| 38                                                                                                                                                                               | 51,5                                                                              | -       | -   | 49,5                                                                                     | -       | -   | 47,6                                                                                      | -       | -   | 45,0 | -       | -       |     |
| 42                                                                                                                                                                               | 45,9                                                                              | -       | -   | 43,7                                                                                     | -       | -   | 41,9                                                                                      | -       | -   | 39,8 | -       | -       |     |
| 46                                                                                                                                                                               | 40,8                                                                              | -       | -   | 38,8                                                                                     | -       | -   | 37,1                                                                                      | -       | -   | 35,0 | -       | -       |     |
| 50                                                                                                                                                                               | 36,5                                                                              | 26,1    | -   | 34,5                                                                                     | -       | -   | 32,9                                                                                      | -       | -   | 31,0 | -       | -       |     |
| 52                                                                                                                                                                               | 34,6                                                                              | 24,5    | -   | 32,7                                                                                     | 22,4    | -   | 31,1                                                                                      | -       | -   | 29,1 | -       | -       |     |
| 54                                                                                                                                                                               | 32,8                                                                              | 23,0    | -   | 30,9                                                                                     | 21,0    | -   | 29,3                                                                                      | -       | -   | 27,4 | -       | -       |     |
| 55                                                                                                                                                                               | 31,8                                                                              | 22,2    | -   | 30,1                                                                                     | 20,3    | -   | 28,5                                                                                      | 18,7    | -   | 26,6 | -       | -       |     |
| 57                                                                                                                                                                               | 30,0                                                                              | 20,8    | -   | 28,5                                                                                     | 19,0    | -   | 26,9                                                                                      | 17,4    | -   | 25,0 | 15,4    | -       |     |
| 58                                                                                                                                                                               | 29,1                                                                              | 20,0    | -   | 27,7                                                                                     | 18,4    | -   | 26,2                                                                                      | 16,8    | -   | 24,3 | 14,8    | -       |     |
| 62                                                                                                                                                                               | 26,0                                                                              | 17,3    | -   | 24,7                                                                                     | 15,7    | -   | 23,4                                                                                      | 14,5    | -   | 21,6 | 12,6    | -       |     |
| 66                                                                                                                                                                               | 23,0                                                                              | 14,9    | -   | 21,7                                                                                     | 13,4    | -   | 20,9                                                                                      | 12,5    | -   | 19,2 | 10,6    | -       |     |
| 69                                                                                                                                                                               | 21,1                                                                              | 13,3    | 7,1 | 19,8                                                                                     | 11,8    | -   | 19,1                                                                                      | 11,0    | -   | 17,5 | 9,3     | -       |     |
| 70                                                                                                                                                                               | 20,5                                                                              | 12,8    | 6,7 | 19,2                                                                                     | 11,3    | -   | 18,5                                                                                      | 10,5    | -   | 17,0 | 8,9     | -       |     |
| 74                                                                                                                                                                               | 18,2                                                                              | 11,0    | 5,2 | 16,9                                                                                     | 9,5     | -   | 16,2                                                                                      | 8,7     | -   | 15,0 | 7,3     | -       |     |
| 77                                                                                                                                                                               | 16,7                                                                              | 9,8     | 4,2 | 15,4                                                                                     | 8,3     | -   | 14,7                                                                                      | 7,5     | -   | 13,6 | 6,1     | -       |     |
| 78                                                                                                                                                                               | 16,3                                                                              | 9,4     | -   | 14,9                                                                                     | 7,9     | -   | 14,2                                                                                      | 7,1     | -   | 13,2 | 5,8     | -       |     |
| 82                                                                                                                                                                               | 13,4*                                                                             | 7,9     | -   | 13,2                                                                                     | 6,4     | -   | 12,4                                                                                      | 5,7     | -   | 11,5 | 4,5     | -       |     |
| 83                                                                                                                                                                               | -                                                                                 | 7,6     | -   | 12,8                                                                                     | 6,1     | -   | 12,0                                                                                      | 5,3     | -   | 11,1 | 4,2     | -       |     |
| 86                                                                                                                                                                               | -                                                                                 | 6,7     | -   | 11,6                                                                                     | 5,2     | -   | 10,8                                                                                      | 4,4     | -   | 9,9  | -       | -       |     |
| 87                                                                                                                                                                               | -                                                                                 | 6,4     | -   | 10,2*                                                                                    | 4,9     | -   | 10,4                                                                                      | 4,1     | -   | 9,5  | -       | -       |     |
| 90                                                                                                                                                                               | -                                                                                 | 5,6     | -   | -                                                                                        | 4,0     | -   | 9,4                                                                                       | -       | -   | 8,4  | -       | -       |     |
| 93                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -   | 7,4*                                                                                      | -       | -   | 7,4  | -       | -       |     |
| 94                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -   | -                                                                                         | -       | -   | 7,1  | -       | -       |     |
| 98                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -   | -                                                                                         | -       | -   | 4,9* | -       | -       |     |
| 99                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -   | -                                                                                         | -       | -   | 4,6* | -       | -       |     |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
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87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |      |  8,40 m |         |      |  9.8 m/s |         |      | 360° |         |      | EN13000 |         |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|------|------|---------|------|---------|---------|------|------|
|  54 m                                                                                           |                                                                                   |         |      |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |         |      |      |
|                                                                                                 |  | 24 m    |      |                                                                                          | 30 m    |      |                                                                                           | 36 m    |      |      | 42 m    |      |         | 48 m    |      |      |
|                                                                                                                                                                                  |                                                                                   | SW_1    |      |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |         |      |      |
|                                                                                                 |  | 87°/85° | 75°  | 65°                                                                                      | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°     | 87°/85° | 75°  | 65°  |
| m                                                                                                                                                                                |                                                                                   | t       | t    | t                                                                                        | t       | t    | t                                                                                         | t       | t    | t    | t       | t    | t       | t       | t    | t    |
| 12                                                                                                                                                                               |                                                                                   | 214,0   | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | -    |
| 14                                                                                                                                                                               |                                                                                   | 187,0   | -    | -                                                                                        | 179,0   | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | -    |
| 15                                                                                                                                                                               |                                                                                   | 175,0   | -    | -                                                                                        | 169,0   | -    | -                                                                                         | 162,0   | -    | -    | -       | -    | -       | -       | -    | -    |
| 16                                                                                                                                                                               |                                                                                   | 165,0   | -    | -                                                                                        | 159,0   | -    | -                                                                                         | 153,0   | -    | -    | 148,0   | -    | -       | -       | -    | -    |
| 17                                                                                                                                                                               |                                                                                   | 156,0   | -    | -                                                                                        | 150,0   | -    | -                                                                                         | 145,0   | -    | -    | 140,0   | -    | -       | 134,0   | -    | -    |
| 18                                                                                                                                                                               |                                                                                   | 148,0   | -    | -                                                                                        | 143,0   | -    | -                                                                                         | 137,0   | -    | -    | 133,0   | -    | -       | 127,0   | -    | -    |
| 20                                                                                                                                                                               |                                                                                   | 134,0   | -    | -                                                                                        | 129,0   | -    | -                                                                                         | 125,0   | -    | -    | 121,0   | -    | -       | 116,0   | -    | -    |
| 22                                                                                                                                                                               |                                                                                   | 123,0   | -    | -                                                                                        | 118,0   | -    | -                                                                                         | 114,0   | -    | -    | 110,0   | -    | -       | 106,0   | -    | -    |
| 24                                                                                                                                                                               |                                                                                   | 113,0   | -    | -                                                                                        | 109,0   | -    | -                                                                                         | 105,0   | -    | -    | 101,0   | -    | -       | 97,5    | -    | -    |
| 26                                                                                                                                                                               |                                                                                   | 102,0   | -    | -                                                                                        | 101,0   | -    | -                                                                                         | 97,0    | -    | -    | 94,0    | -    | -       | 90,0    | -    | -    |
| 28                                                                                                                                                                               |                                                                                   | 92,5    | -    | -                                                                                        | 91,0    | -    | -                                                                                         | 90,0    | -    | -    | 87,5    | -    | -       | 83,5    | -    | -    |
| 29                                                                                                                                                                               |                                                                                   | 85,5*   | 72,0 | -                                                                                        | 87,0    | -    | -                                                                                         | 86,2    | -    | -    | 84,5    | -    | -       | 80,7    | -    | -    |
| 30                                                                                                                                                                               |                                                                                   | 81,5*   | 68,5 | -                                                                                        | 83,0    | -    | -                                                                                         | 82,5    | -    | -    | 81,5    | -    | -       | 78,0    | -    | -    |
| 31                                                                                                                                                                               |                                                                                   | -       | 65,8 | -                                                                                        | 79,8    | 64,0 | -                                                                                         | 79,2    | -    | -    | 78,5    | -    | -       | 75,5    | -    | -    |
| 34                                                                                                                                                                               |                                                                                   | -       | 58,0 | -                                                                                        | 70,5    | 56,5 | -                                                                                         | 69,5    | 55,5 | -    | 69,5    | -    | -       | 68,0    | -    | -    |
| 36                                                                                                                                                                               |                                                                                   | -       | 53,9 | -                                                                                        | 63,0*   | 52,4 | -                                                                                         | 64,7    | 51,3 | -    | 64,5    | 50,5 | -       | 63,2    | -    | -    |
| 38                                                                                                                                                                               |                                                                                   | -       | 49,9 | -                                                                                        | -       | 48,4 | -                                                                                         | 60,0    | 47,5 | -    | 59,5    | 46,9 | -       | 58,5    | -    | -    |
| 39                                                                                                                                                                               |                                                                                   | -       | 48,2 | -                                                                                        | -       | 46,6 | -                                                                                         | 58,0    | 45,9 | -    | 57,6    | 45,3 | -       | 56,5    | 43,5 | -    |
| 41                                                                                                                                                                               |                                                                                   | -       | -    | 35,4                                                                                     | -       | 43,5 | -                                                                                         | 52,3*   | 42,7 | -    | 53,8    | 42,1 | -       | 52,5    | 40,3 | -    |
| 42                                                                                                                                                                               |                                                                                   | -       | -    | 34,2                                                                                     | -       | 42,0 | -                                                                                         | 50,5*   | 41,1 | -    | 52,0    | 40,5 | -       | 50,5    | 38,7 | -    |
| 45                                                                                                                                                                               |                                                                                   | -       | -    | 30,9                                                                                     | -       | 38,2 | 28,8                                                                                      | -       | 37,2 | -    | 47,4    | 36,6 | -       | 46,1    | 34,7 | -    |
| 46                                                                                                                                                                               |                                                                                   | -       | -    | 29,8                                                                                     | -       | -    | 27,8                                                                                      | -       | 36,0 | -    | 44,2*   | 35,3 | -       | 44,7    | 33,4 | -    |
| 47                                                                                                                                                                               |                                                                                   | -       | -    | 28,8                                                                                     | -       | -    | 26,9                                                                                      | -       | 34,9 | -    | 42,9*   | 34,2 | -       | 43,4    | 32,3 | -    |
| 48                                                                                                                                                                               |                                                                                   | -       | -    | 27,9                                                                                     | -       | -    | 26,0                                                                                      | -       | 33,9 | 24,7 | -       | 33,1 | -       | 42,2    | 31,2 | -    |
| 50                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | 24,2                                                                                      | -       | 31,8 | 23,0 | -       | 30,9 | -       | 39,7    | 29,1 | -    |
| 51                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | 23,5                                                                                      | -       | 30,9 | 22,2 | -       | 30,0 | 21,3    | 38,6    | 28,2 | -    |
| 53                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | 22,1                                                                                      | -       | -    | 20,7 | -       | 28,2 | 19,8    | 34,9*   | 26,4 | -    |
| 54                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | 21,5                                                                                      | -       | -    | 20,0 | -       | 27,4 | 19,1    | -       | 25,5 | -    |
| 55                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 19,4 | -       | 26,6 | 18,5    | -       | 24,7 | 16,4 |
| 57                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 18,2 | -       | 25,2 | 17,3    | -       | 23,2 | 15,2 |
| 58                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 17,7 | -       | -    | 16,7    | -       | 22,5 | 14,6 |
| 60                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 16,7 | -       | -    | 15,7    | -       | 21,3 | 13,5 |
| 62                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 14,7    | -       | 20,1 | 12,5 |
| 66                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 13,1    | -       | -    | 10,8 |
| 70                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | 9,4  |
| 71                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | 9,1  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
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87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
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|  205 t +  50 t |       |         |      |  8,40 m |       |      |  9.8 m/s |       |      | 360° |         |       | EN13000 |     |   |   |     |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|---------|------|------------------------------------------------------------------------------------------|-------|------|-------------------------------------------------------------------------------------------|-------|------|------|---------|-------|---------|-----|---|---|-----|--|--|
|  54 m                                                                                           |       |         |      |                                                                                          |       |      |                                                                                           |       |      |      |         |       |         |     |   |   |     |  |  |
|                                                                                                 |       | 54 m    |      |                                                                                          | 60 m  |      |                                                                                           | 66 m  |      |      | 72 m    |       |         |     |   |   |     |  |  |
|                                                                                                                                                                                  |       | SW_1    |      |                                                                                          |       |      |                                                                                           |       |      |      |         |       |         |     |   |   |     |  |  |
|                                                                                                 |       | 87°/85° |      |                                                                                          | 75°   |      |                                                                                           | 65°   |      |      | 87°/85° |       |         | 75° |   |   | 65° |  |  |
|                                                                                                                                                                                  |       | m       | t    | t                                                                                        | t     | t    | t                                                                                         | t     | t    | t    | t       | t     | t       | t   | t | t |     |  |  |
| 19                                                                                                                                                                               | 117,0 | -       | -    | -                                                                                        | -     | -    | -                                                                                         | -     | -    | -    | -       | -     | -       | -   | - |   |     |  |  |
| 20                                                                                                                                                                               | 112,0 | -       | -    | -                                                                                        | 108,0 | -    | -                                                                                         | -     | -    | -    | -       | -     | -       | -   | - |   |     |  |  |
| 22                                                                                                                                                                               | 102,0 | -       | -    | -                                                                                        | 99,0  | -    | -                                                                                         | 94,5  | -    | -    | -       | -     | -       | -   | - |   |     |  |  |
| 23                                                                                                                                                                               | 98,2  | -       | -    | -                                                                                        | 95,0  | -    | -                                                                                         | 91,2  | -    | -    | -       | 82,5  | -       | -   | - |   |     |  |  |
| 24                                                                                                                                                                               | 94,5  | -       | -    | -                                                                                        | 91,0  | -    | -                                                                                         | 88,0  | -    | -    | -       | 81,5  | -       | -   | - |   |     |  |  |
| 26                                                                                                                                                                               | 87,0  | -       | -    | -                                                                                        | 84,0  | -    | -                                                                                         | 81,5  | -    | -    | -       | 78,0  | -       | -   | - |   |     |  |  |
| 28                                                                                                                                                                               | 81,0  | -       | -    | -                                                                                        | 78,0  | -    | -                                                                                         | 75,5  | -    | -    | -       | 72,5  | -       | -   | - |   |     |  |  |
| 30                                                                                                                                                                               | 75,5  | -       | -    | -                                                                                        | 72,5  | -    | -                                                                                         | 70,0  | -    | -    | -       | 67,5  | -       | -   | - |   |     |  |  |
| 34                                                                                                                                                                               | 66,0  | -       | -    | -                                                                                        | 63,5  | -    | -                                                                                         | 61,5  | -    | -    | -       | 59,0  | -       | -   | - |   |     |  |  |
| 38                                                                                                                                                                               | 58,5  | -       | -    | -                                                                                        | 56,0  | -    | -                                                                                         | 54,0  | -    | -    | -       | 52,0  | -       | -   | - |   |     |  |  |
| 41                                                                                                                                                                               | 52,5  | 40,1    | -    | -                                                                                        | 51,5  | -    | -                                                                                         | 49,8  | -    | -    | -       | 47,6  | -       | -   | - |   |     |  |  |
| 42                                                                                                                                                                               | 50,5  | 38,6    | -    | -                                                                                        | 50,0  | -    | -                                                                                         | 48,4  | -    | -    | -       | 46,2  | -       | -   | - |   |     |  |  |
| 44                                                                                                                                                                               | 47,5  | 35,9    | -    | -                                                                                        | 46,8  | 34,5 | -                                                                                         | 45,8  | -    | -    | -       | 43,7  | -       | -   | - |   |     |  |  |
| 46                                                                                                                                                                               | 44,6  | 33,2    | -    | -                                                                                        | 43,7  | 32,0 | -                                                                                         | 43,2  | 30,8 | -    | -       | 41,2  | -       | -   | - |   |     |  |  |
| 49                                                                                                                                                                               | 40,7  | 29,9    | -    | -                                                                                        | 39,8  | 28,7 | -                                                                                         | 39,3  | 27,7 | -    | -       | 38,0  | 25,9    | -   | - |   |     |  |  |
| 50                                                                                                                                                                               | 39,5  | 28,9    | -    | -                                                                                        | 38,6  | 27,6 | -                                                                                         | 38,0  | 26,7 | -    | -       | 37,0  | 25,1    | -   | - |   |     |  |  |
| 54                                                                                                                                                                               | 35,3  | 25,2    | -    | -                                                                                        | 34,3  | 24,0 | -                                                                                         | 33,7  | 23,1 | -    | -       | 33,2  | 22,2    | -   | - |   |     |  |  |
| 58                                                                                                                                                                               | 30,2* | 22,2    | 14,2 | -                                                                                        | 30,7  | 20,9 | -                                                                                         | 30,1  | 20,0 | -    | -       | 29,5  | 19,1    | -   | - |   |     |  |  |
| 59                                                                                                                                                                               | 29,5* | 21,5    | 13,6 | -                                                                                        | 29,9  | 20,2 | -                                                                                         | 29,3  | 19,3 | -    | -       | 28,7  | 18,4    | -   | - |   |     |  |  |
| 62                                                                                                                                                                               | -     | 19,6    | 12,1 | -                                                                                        | 27,7  | 18,3 | 10,7                                                                                      | 27,0  | 17,4 | -    | -       | 26,4  | 16,5    | -   | - |   |     |  |  |
| 65                                                                                                                                                                               | -     | 17,9    | 10,7 | -                                                                                        | 24,3* | 16,5 | 9,3                                                                                       | 25,0  | 15,6 | 8,3  | -       | 24,2  | 14,7    | -   | - |   |     |  |  |
| 66                                                                                                                                                                               | -     | 17,4    | 10,3 | -                                                                                        | -     | 16,0 | 8,9                                                                                       | 24,4  | 15,1 | 7,9  | -       | 23,5  | 14,2    | -   | - |   |     |  |  |
| 68                                                                                                                                                                               | -     | 16,4    | 9,5  | -                                                                                        | -     | 15,0 | 8,1                                                                                       | 23,1  | 14,1 | 7,1  | -       | 22,2  | 13,2    | 6,0 | - |   |     |  |  |
| 70                                                                                                                                                                               | -     | -       | 8,8  | -                                                                                        | -     | 14,1 | 7,4                                                                                       | 20,5* | 13,2 | 6,4  | -       | 21,0  | 12,2    | 5,3 | - |   |     |  |  |
| 71                                                                                                                                                                               | -     | -       | 8,4  | -                                                                                        | -     | 13,7 | 7,0                                                                                       | 19,9* | 12,7 | 6,0  | -       | 20,4  | 11,8    | 4,9 | - |   |     |  |  |
| 73                                                                                                                                                                               | -     | -       | 7,8  | -                                                                                        | -     | 12,9 | 6,3                                                                                       | -     | 11,9 | 5,3  | -       | 19,3  | 10,9    | 4,2 | - |   |     |  |  |
| 74                                                                                                                                                                               | -     | -       | 7,5  | -                                                                                        | -     | 12,5 | 6,0                                                                                       | -     | 11,5 | 5,0  | -       | 18,8  | 10,5    | -   | - |   |     |  |  |
| 76                                                                                                                                                                               | -     | -       | 6,9  | -                                                                                        | -     | -    | 5,4                                                                                       | -     | 10,7 | 4,4  | -       | 16,5* | 9,7     | -   | - |   |     |  |  |
| 77                                                                                                                                                                               | -     | -       | 6,7  | -                                                                                        | -     | -    | 5,1                                                                                       | -     | 10,3 | 4,1  | -       | -     | 9,3     | -   | - |   |     |  |  |
| 78                                                                                                                                                                               | -     | -       | -    | -                                                                                        | -     | -    | 4,9                                                                                       | -     | 10,0 | -    | -       | -     | 8,9     | -   | - |   |     |  |  |
| 80                                                                                                                                                                               | -     | -       | -    | -                                                                                        | -     | -    | 4,3                                                                                       | -     | 9,4  | -    | -       | -     | 8,2     | -   | - |   |     |  |  |
| 81                                                                                                                                                                               | -     | -       | -    | -                                                                                        | -     | -    | 4,1                                                                                       | -     | -    | -    | -       | -     | 7,9     | -   | - |   |     |  |  |
| 82                                                                                                                                                                               | -     | -       | -    | -                                                                                        | -     | -    | -                                                                                         | -     | -    | -    | -       | -     | 7,6     | -   | - |   |     |  |  |
| 86                                                                                                                                                                               | -     | -       | -    | -                                                                                        | -     | -    | -                                                                                         | -     | -    | -    | -       | -     | 6,5     | -   | - |   |     |  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |       |      |   |  8,40 m |      |   |  9.8 m/s |      |   | 360°            |      |   | EN13000 |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------|---|------------------------------------------------------------------------------------------|------|---|-------------------------------------------------------------------------------------------|------|---|-----------------|------|---|---------|--|--|
|  54 m                                                                                           |       |      |   |                                                                                          |      |   |                                                                                           |      |   |                 |      |   |         |  |  |
|  78 m                                                                                           |       |      |   | 84 m                                                                                     |      |   | 90 m                                                                                      |      |   | 96 m            |      |   |         |  |  |
| SW_1                                                                                                                                                                             |       |      |   |                                                                                          |      |   |                                                                                           |      |   |                 |      |   |         |  |  |
|  87°/85° 75° 65°                                                                                |       |      |   | 87°/85° 75° 65°                                                                          |      |   | 87°/85° 75° 65°                                                                           |      |   | 87°/85° 75° 65° |      |   |         |  |  |
| m                                                                                                                                                                                | t     | t    | t | t                                                                                        | t    | t | t                                                                                         | t    | t | t               | t    | t |         |  |  |
| 24                                                                                                                                                                               | 69,5  | -    | - | -                                                                                        | -    | - | -                                                                                         | -    | - | -               | -    | - |         |  |  |
| 26                                                                                                                                                                               | 69,0  | -    | - | 60,0                                                                                     | -    | - | -                                                                                         | -    | - | -               | -    | - |         |  |  |
| 27                                                                                                                                                                               | 68,5  | -    | - | 59,7                                                                                     | -    | - | 51,5                                                                                      | -    | - | -               | -    | - |         |  |  |
| 28                                                                                                                                                                               | 68,0  | -    | - | 59,5                                                                                     | -    | - | 51,0                                                                                      | -    | - | 44,3            | -    | - |         |  |  |
| 30                                                                                                                                                                               | 65,0  | -    | - | 59,0                                                                                     | -    | - | 50,5                                                                                      | -    | - | 43,9            | -    | - |         |  |  |
| 34                                                                                                                                                                               | 56,5  | -    | - | 54,0                                                                                     | -    | - | 49,9                                                                                      | -    | - | 43,1            | -    | - |         |  |  |
| 38                                                                                                                                                                               | 50,0  | -    | - | 47,7                                                                                     | -    | - | 45,8                                                                                      | -    | - | 42,2            | -    | - |         |  |  |
| 42                                                                                                                                                                               | 44,3  | -    | - | 42,1                                                                                     | -    | - | 40,3                                                                                      | -    | - | 38,2            | -    | - |         |  |  |
| 46                                                                                                                                                                               | 39,4  | -    | - | 37,3                                                                                     | -    | - | 35,7                                                                                      | -    | - | 33,6            | -    | - |         |  |  |
| 50                                                                                                                                                                               | 35,3  | -    | - | 33,2                                                                                     | -    | - | 31,6                                                                                      | -    | - | 29,7            | -    | - |         |  |  |
| 51                                                                                                                                                                               | 34,4  | 22,6 | - | 32,3                                                                                     | -    | - | 30,7                                                                                      | -    | - | 28,8            | -    | - |         |  |  |
| 54                                                                                                                                                                               | 31,7  | 20,5 | - | 29,7                                                                                     | 18,4 | - | 28,1                                                                                      | -    | - | 26,3            | -    | - |         |  |  |
| 56                                                                                                                                                                               | 30,1  | 19,2 | - | 28,1                                                                                     | 17,1 | - | 26,6                                                                                      | 15,5 | - | 24,8            | -    | - |         |  |  |
| 58                                                                                                                                                                               | 28,5  | 18,0 | - | 26,6                                                                                     | 15,9 | - | 25,1                                                                                      | 14,4 | - | 23,3            | -    | - |         |  |  |
| 59                                                                                                                                                                               | 27,8  | 17,4 | - | 25,9                                                                                     | 15,3 | - | 24,4                                                                                      | 13,8 | - | 22,6            | 11,8 | - |         |  |  |
| 62                                                                                                                                                                               | 25,6  | 15,6 | - | 23,9                                                                                     | 13,8 | - | 22,4                                                                                      | 12,2 | - | 20,6            | 10,3 | - |         |  |  |
| 66                                                                                                                                                                               | 22,7  | 13,3 | - | 21,4                                                                                     | 11,8 | - | 20,0                                                                                      | 10,4 | - | 18,2            | 8,5  | - |         |  |  |
| 70                                                                                                                                                                               | 20,2  | 11,3 | - | 18,9                                                                                     | 9,8  | - | 17,8                                                                                      | 8,7  | - | 16,1            | 6,8  | - |         |  |  |
| 74                                                                                                                                                                               | 18,0  | 9,6  | - | 16,6                                                                                     | 8,0  | - | 15,9                                                                                      | 7,2  | - | 14,2            | 5,3  | - |         |  |  |
| 77                                                                                                                                                                               | 16,5  | 8,4  | - | 15,1                                                                                     | 6,8  | - | 14,4                                                                                      | 6,0  | - | 12,8            | 4,3  | - |         |  |  |
| 78                                                                                                                                                                               | 16,0  | 8,0  | - | 14,7                                                                                     | 6,5  | - | 14,0                                                                                      | 5,7  | - | 12,4            | -    | - |         |  |  |
| 82                                                                                                                                                                               | 13,0* | 6,6  | - | 12,9                                                                                     | 5,1  | - | 12,2                                                                                      | 4,3  | - | 10,9            | -    | - |         |  |  |
| 83                                                                                                                                                                               | -     | 6,3  | - | 12,5                                                                                     | 4,8  | - | 11,8                                                                                      | 4,0  | - | 10,5            | -    | - |         |  |  |
| 85                                                                                                                                                                               | -     | 5,7  | - | 11,7                                                                                     | 4,2  | - | 11,0                                                                                      | -    | - | 9,7             | -    | - |         |  |  |
| 86                                                                                                                                                                               | -     | 5,4  | - | 11,4                                                                                     | -    | - | 10,6                                                                                      | -    | - | 9,4             | -    | - |         |  |  |
| 88                                                                                                                                                                               | -     | 4,9  | - | 9,4*                                                                                     | -    | - | 9,9                                                                                       | -    | - | 8,8             | -    | - |         |  |  |
| 90                                                                                                                                                                               | -     | 4,4  | - | -                                                                                        | -    | - | 9,2                                                                                       | -    | - | 8,2             | -    | - |         |  |  |
| 91                                                                                                                                                                               | -     | 4,1  | - | -                                                                                        | -    | - | 8,8                                                                                       | -    | - | 7,8             | -    | - |         |  |  |
| 94                                                                                                                                                                               | -     | -    | - | -                                                                                        | -    | - | 6,7*                                                                                      | -    | - | 6,9             | -    | - |         |  |  |
| 98                                                                                                                                                                               | -     | -    | - | -                                                                                        | -    | - | -                                                                                         | -    | - | 5,7             | -    | - |         |  |  |
| 99                                                                                                                                                                               | -     | -    | - | -                                                                                        | -    | - | -                                                                                         | -    | - | 4,3*            | -    | - |         |  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
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intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |      |  8,40 m |         |      |  9.8 m/s |         |      | 360° |         |      | EN13000 |         |      |      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|------|------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|------|------|---------|------|---------|---------|------|------|
|  60 m                                                                                           |                                                                                   |         |      |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |         |      |      |
|                                                                                                 |  | 24 m    |      |                                                                                          | 30 m    |      |                                                                                           | 36 m    |      |      | 42 m    |      |         | 48 m    |      |      |
|                                                                                                                                                                                  |                                                                                   | SW_1    |      |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |         |      |      |
|                                                                                                 |  | 87°/85° | 75°  | 65°                                                                                      | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°     | 87°/85° | 75°  | 65°  |
| m                                                                                                                                                                                |                                                                                   | t       | t    | t                                                                                        | t       | t    | t                                                                                         | t       | t    | t    | t       | t    | t       | t       | t    | t    |
| 13                                                                                                                                                                               |                                                                                   | 190,0   | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | -    |
| 14                                                                                                                                                                               |                                                                                   | 178,0   | -    | -                                                                                        | 171,0   | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | -    |
| 15                                                                                                                                                                               |                                                                                   | 168,0   | -    | -                                                                                        | 161,0   | -    | -                                                                                         | 155,0   | -    | -    | -       | -    | -       | -       | -    | -    |
| 16                                                                                                                                                                               |                                                                                   | 158,0   | -    | -                                                                                        | 153,0   | -    | -                                                                                         | 147,0   | -    | -    | -       | -    | -       | -       | -    | -    |
| 17                                                                                                                                                                               |                                                                                   | 150,0   | -    | -                                                                                        | 144,0   | -    | -                                                                                         | 139,0   | -    | -    | 134,0   | -    | -       | -       | -    | -    |
| 18                                                                                                                                                                               |                                                                                   | 142,0   | -    | -                                                                                        | 137,0   | -    | -                                                                                         | 132,0   | -    | -    | 128,0   | -    | -       | 122,0   | -    | -    |
| 20                                                                                                                                                                               |                                                                                   | 129,0   | -    | -                                                                                        | 125,0   | -    | -                                                                                         | 120,0   | -    | -    | 116,0   | -    | -       | 111,0   | -    | -    |
| 22                                                                                                                                                                               |                                                                                   | 118,0   | -    | -                                                                                        | 114,0   | -    | -                                                                                         | 110,0   | -    | -    | 106,0   | -    | -       | 102,0   | -    | -    |
| 24                                                                                                                                                                               |                                                                                   | 109,0   | -    | -                                                                                        | 105,0   | -    | -                                                                                         | 101,0   | -    | -    | 98,0    | -    | -       | 94,0    | -    | -    |
| 26                                                                                                                                                                               |                                                                                   | 101,0   | -    | -                                                                                        | 97,5    | -    | -                                                                                         | 93,5    | -    | -    | 91,0    | -    | -       | 87,0    | -    | -    |
| 28                                                                                                                                                                               |                                                                                   | 91,5    | -    | -                                                                                        | 90,5    | -    | -                                                                                         | 87,0    | -    | -    | 84,5    | -    | -       | 81,0    | -    | -    |
| 30                                                                                                                                                                               |                                                                                   | 80,5*   | 65,5 | -                                                                                        | 82,5    | -    | -                                                                                         | 81,5    | -    | -    | 79,0    | -    | -       | 75,5    | -    | -    |
| 33                                                                                                                                                                               |                                                                                   | -       | 57,6 | -                                                                                        | 72,7    | 56,0 | -                                                                                         | 72,1    | -    | -    | 71,1    | -    | -       | 68,3    | -    | -    |
| 34                                                                                                                                                                               |                                                                                   | -       | 55,0 | -                                                                                        | 69,5    | 53,5 | -                                                                                         | 69,0    | -    | -    | 68,5    | -    | -       | 66,0    | -    | -    |
| 35                                                                                                                                                                               |                                                                                   | -       | 53,0 | -                                                                                        | 64,5*   | 51,5 | -                                                                                         | 66,6    | 50,5 | -    | 66,1    | -    | -       | 64,0    | -    | -    |
| 36                                                                                                                                                                               |                                                                                   | -       | 51,0 | -                                                                                        | 62,0*   | 49,6 | -                                                                                         | 64,2    | 48,6 | -    | 63,7    | -    | -       | 62,0    | -    | -    |
| 38                                                                                                                                                                               |                                                                                   | -       | 47,4 | -                                                                                        | -       | 45,8 | -                                                                                         | 59,5    | 45,0 | -    | 59,0    | 44,3 | -       | 58,0    | -    | -    |
| 41                                                                                                                                                                               |                                                                                   | -       | 42,7 | -                                                                                        | -       | 41,1 | -                                                                                         | 51,6*   | 40,2 | -    | 53,3    | 39,5 | -       | 52,0    | 37,5 | -    |
| 42                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | 39,6 | -                                                                                         | 49,8*   | 38,6 | -    | 51,5    | 37,9 | -       | 50,0    | 36,0 | -    |
| 44                                                                                                                                                                               |                                                                                   | -       | -    | 27,7                                                                                     | -       | 37,1 | -                                                                                         | -       | 36,0 | -    | 48,5    | 35,3 | -       | 47,1    | 33,3 | -    |
| 46                                                                                                                                                                               |                                                                                   | -       | -    | 25,8                                                                                     | -       | 34,6 | -                                                                                         | -       | 33,5 | -    | 45,6    | 32,8 | -       | 44,2    | 30,9 | -    |
| 47                                                                                                                                                                               |                                                                                   | -       | -    | 25,0                                                                                     | -       | 33,6 | 22,9                                                                                      | -       | 32,4 | -    | 42,2*   | 31,7 | -       | 42,9    | 29,8 | -    |
| 48                                                                                                                                                                               |                                                                                   | -       | -    | 24,2                                                                                     | -       | -    | 22,1                                                                                      | -       | 31,4 | -    | 41,0*   | 30,6 | -       | 41,7    | 28,8 | -    |
| 50                                                                                                                                                                               |                                                                                   | -       | -    | 22,6                                                                                     | -       | -    | 20,5                                                                                      | -       | 29,4 | -    | -       | 28,6 | -       | 39,2    | 26,8 | -    |
| 51                                                                                                                                                                               |                                                                                   | -       | -    | 21,9                                                                                     | -       | -    | 19,8                                                                                      | -       | 28,5 | 18,6 | -       | 27,7 | -       | 38,1    | 25,9 | -    |
| 52                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | 19,2                                                                                      | -       | 27,7 | 17,9 | -       | 26,9 | -       | 37,1    | 25,0 | -    |
| 54                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | 17,9                                                                                      | -       | -    | 16,6 | -       | 25,2 | 15,7    | 33,3*   | 23,3 | -    |
| 57                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | 16,4                                                                                      | -       | -    | 14,9 | -       | 23,1 | 14,0    | -       | 21,2 | -    |
| 58                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 14,4 | -       | 22,5 | 13,5    | -       | 20,5 | 11,4 |
| 62                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 12,7 | -       | -    | 11,6    | -       | 18,1 | 9,5  |
| 64                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 10,8    | -       | 17,1 | 8,7  |
| 66                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 10,1    | -       | -    | 7,9  |
| 68                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 9,5     | -       | -    | 7,2  |
| 70                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | 6,6  |
| 74                                                                                                                                                                               |                                                                                   | -       | -    | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | 5,6  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ángulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ángulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |                                                                                   |                                                                                   |  8,40 m |       |      |  9.8 m/s |       |      | 360°    |      | EN13000 |         |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-------|------|-------------------------------------------------------------------------------------------|-------|------|---------|------|---------|---------|-----|
|  60 m                                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                          |       |      |                                                                                           |       |      |         |      |         |         |     |
|                                                                                                 |  | 54 m                                                                              |                                                                                   |                                                                                          | 60 m  |      |                                                                                           | 66 m  |      |         | 72 m |         |         |     |
|                                                                                                                                                                                  |                                                                                   | SW_1                                                                              |                                                                                   |                                                                                          |       |      |                                                                                           |       |      |         |      |         |         |     |
|                                                                                                                                                                                  |                                                                                   |  |  | 87°/85°                                                                                  | 75°   | 65°  | 87°/85°                                                                                   | 75°   | 65°  | 87°/85° | 75°  | 65°     | 87°/85° | 75° |
| m                                                                                                                                                                                | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                        | t     | t    | t                                                                                         | t     | t    | t       | t    | t       | t       | t   |
| 19                                                                                                                                                                               | 113,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -     | -    | -       | -    | -       | -       | -   |
| 20                                                                                                                                                                               | 108,0                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 101,0 | -    | -                                                                                         | -     | -    | -       | -    | -       | -       | -   |
| 22                                                                                                                                                                               | 98,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 95,0  | -    | -                                                                                         | 87,5  | -    | -       | -    | -       | -       | -   |
| 23                                                                                                                                                                               | 94,7                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 91,2  | -    | -                                                                                         | 86,0  | -    | -       | -    | 76,5    | -       | -   |
| 24                                                                                                                                                                               | 91,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 87,5  | -    | -                                                                                         | 84,5  | -    | -       | -    | 76,0    | -       | -   |
| 26                                                                                                                                                                               | 84,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 81,0  | -    | -                                                                                         | 78,5  | -    | -       | -    | 75,0    | -       | -   |
| 28                                                                                                                                                                               | 78,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 75,0  | -    | -                                                                                         | 72,5  | -    | -       | -    | 70,0    | -       | -   |
| 30                                                                                                                                                                               | 73,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 70,0  | -    | -                                                                                         | 67,5  | -    | -       | -    | 65,0    | -       | -   |
| 34                                                                                                                                                                               | 64,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 61,5  | -    | -                                                                                         | 59,5  | -    | -       | -    | 56,5    | -       | -   |
| 38                                                                                                                                                                               | 56,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 54,0  | -    | -                                                                                         | 52,5  | -    | -       | -    | 50,0    | -       | -   |
| 42                                                                                                                                                                               | 50,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 48,5  | -    | -                                                                                         | 46,7  | -    | -       | -    | 44,5    | -       | -   |
| 43                                                                                                                                                                               | 48,5                                                                              | 34,4                                                                              | -                                                                                 | -                                                                                        | 47,2  | -    | -                                                                                         | 45,5  | -    | -       | -    | 43,2    | -       | -   |
| 46                                                                                                                                                                               | 44,2                                                                              | 30,8                                                                              | -                                                                                 | -                                                                                        | 43,4  | 29,3 | -                                                                                         | 41,9  | -    | -       | -    | 39,7    | -       | -   |
| 48                                                                                                                                                                               | 41,6                                                                              | 28,7                                                                              | -                                                                                 | -                                                                                        | 40,8  | 27,3 | -                                                                                         | 39,7  | 25,9 | -       | -    | 37,6    | -       | -   |
| 50                                                                                                                                                                               | 39,1                                                                              | 26,6                                                                              | -                                                                                 | -                                                                                        | 38,2  | 25,4 | -                                                                                         | 37,7  | 24,3 | -       | -    | 35,6    | -       | -   |
| 51                                                                                                                                                                               | 38,0                                                                              | 25,7                                                                              | -                                                                                 | -                                                                                        | 37,1  | 24,5 | -                                                                                         | 36,6  | 23,4 | -       | -    | 34,7    | 21,4    | -   |
| 54                                                                                                                                                                               | 34,9                                                                              | 23,1                                                                              | -                                                                                 | -                                                                                        | 34,0  | 21,9 | -                                                                                         | 33,4  | 21,0 | -       | -    | 32,1    | 19,4    | -   |
| 58                                                                                                                                                                               | 29,7*                                                                             | 20,2                                                                              | -                                                                                 | -                                                                                        | 30,4  | 18,9 | -                                                                                         | 29,8  | 18,1 | -       | -    | 29,0    | 17,0    | -   |
| 59                                                                                                                                                                               | 28,9*                                                                             | 19,6                                                                              | -                                                                                 | -                                                                                        | 29,6  | 18,2 | -                                                                                         | 29,0  | 17,4 | -       | -    | 28,2    | 16,4    | -   |
| 61                                                                                                                                                                               | -                                                                                 | 18,3                                                                              | 9,6                                                                               | -                                                                                        | 28,1  | 17,0 | -                                                                                         | 27,4  | 16,2 | -       | -    | 26,8    | 15,2    | -   |
| 62                                                                                                                                                                               | -                                                                                 | 17,7                                                                              | 9,2                                                                               | -                                                                                        | 27,4  | 16,4 | -                                                                                         | 26,7  | 15,6 | -       | -    | 26,1    | 14,6    | -   |
| 64                                                                                                                                                                               | -                                                                                 | 16,6                                                                              | 8,3                                                                               | -                                                                                        | 24,3* | 15,3 | 6,9                                                                                       | 25,3  | 14,5 | -       | -    | 24,6    | 13,5    | -   |
| 65                                                                                                                                                                               | -                                                                                 | 16,1                                                                              | 7,9                                                                               | -                                                                                        | 23,7* | 14,8 | 6,5                                                                                       | 24,6  | 13,9 | -       | -    | 23,9    | 13,0    | -   |
| 66                                                                                                                                                                               | -                                                                                 | 15,6                                                                              | 7,5                                                                               | -                                                                                        | -     | 14,3 | 6,1                                                                                       | 24,0  | 13,4 | -       | -    | 23,2    | 12,5    | -   |
| 70                                                                                                                                                                               | -                                                                                 | 13,9                                                                              | 6,1                                                                               | -                                                                                        | -     | 12,5 | 4,7                                                                                       | 19,9* | 11,5 | -       | -    | 20,7    | 10,6    | -   |
| 71                                                                                                                                                                               | -                                                                                 | -                                                                                 | 5,8                                                                               | -                                                                                        | -     | 12,0 | 4,4                                                                                       | 19,4* | 11,1 | -       | -    | 20,1    | 10,1    | -   |
| 72                                                                                                                                                                               | -                                                                                 | -                                                                                 | 5,5                                                                               | -                                                                                        | -     | 11,6 | 4,1                                                                                       | -     | 10,7 | -       | -    | 19,6    | 9,7     | -   |
| 74                                                                                                                                                                               | -                                                                                 | -                                                                                 | 4,9                                                                               | -                                                                                        | -     | 10,9 | -                                                                                         | -     | 9,9  | -       | -    | 18,5    | 8,9     | -   |
| 76                                                                                                                                                                               | -                                                                                 | -                                                                                 | 4,4                                                                               | -                                                                                        | -     | 10,2 | -                                                                                         | -     | 9,2  | -       | -    | 15,9*   | 8,2     | -   |
| 77                                                                                                                                                                               | -                                                                                 | -                                                                                 | 4,2                                                                               | -                                                                                        | -     | -    | -                                                                                         | -     | 8,8  | -       | -    | 15,5*   | 7,8     | -   |
| 78                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -     | 8,5  | -       | -    | -       | 7,5     | -   |
| 81                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -     | 7,6  | -       | -    | -       | 6,5     | -   |
| 82                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -     | -    | -       | -    | -       | 6,2     | -   |
| 86                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -     | -    | -       | -    | -       | 5,1     | -   |
| 87                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -     | -    | -                                                                                         | -     | -    | -       | -    | -       | 4,8     | -   |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |     |  8,40 m |         |     |  9.8 m/s |         |     | 360° |         |     | EN13000 |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----|------------------------------------------------------------------------------------------|---------|-----|-------------------------------------------------------------------------------------------|---------|-----|------|---------|-----|---------|--|--|
|  60 m                                                                                           |                                                                                   |         |     |                                                                                          |         |     |                                                                                           |         |     |      |         |     |         |  |  |
|                                                                                                 |  | 78 m    |     |                                                                                          | 84 m    |     |                                                                                           | 90 m    |     |      | 96 m    |     |         |  |  |
|                                                                                                                                                                                  |                                                                                   | SW_1    |     |                                                                                          |         |     |                                                                                           |         |     |      |         |     |         |  |  |
|                                                                                                                                                                                  |                                                                                   | 87°/85° | 75° | 65°                                                                                      | 87°/85° | 75° | 65°                                                                                       | 87°/85° | 75° | 65°  | 87°/85° | 75° | 65°     |  |  |
| m                                                                                                                                                                                | t                                                                                 | t       | t   | t                                                                                        | t       | t   | t                                                                                         | t       | t   | t    | t       | t   |         |  |  |
| 25                                                                                                                                                                               | 64,5                                                                              | -       | -   | -                                                                                        | -       | -   | -                                                                                         | -       | -   | -    | -       | -   |         |  |  |
| 26                                                                                                                                                                               | 64,0                                                                              | -       | -   | 56,0                                                                                     | -       | -   | -                                                                                         | -       | -   | -    | -       | -   |         |  |  |
| 27                                                                                                                                                                               | 63,7                                                                              | -       | -   | 55,7                                                                                     | -       | -   | 48,2                                                                                      | -       | -   | -    | -       | -   |         |  |  |
| 28                                                                                                                                                                               | 63,5                                                                              | -       | -   | 55,5                                                                                     | -       | -   | 47,9                                                                                      | -       | -   | -    | -       | -   |         |  |  |
| 29                                                                                                                                                                               | 63,0                                                                              | -       | -   | 55,2                                                                                     | -       | -   | 47,7                                                                                      | -       | -   | 41,2 | -       | -   |         |  |  |
| 30                                                                                                                                                                               | 62,5                                                                              | -       | -   | 55,0                                                                                     | -       | -   | 47,5                                                                                      | -       | -   | 41,0 | -       | -   |         |  |  |
| 34                                                                                                                                                                               | 54,5                                                                              | -       | -   | 52,0                                                                                     | -       | -   | 46,5                                                                                      | -       | -   | 40,3 | -       | -   |         |  |  |
| 38                                                                                                                                                                               | 48,1                                                                              | -       | -   | 45,8                                                                                     | -       | -   | 44,0                                                                                      | -       | -   | 39,4 | -       | -   |         |  |  |
| 42                                                                                                                                                                               | 42,6                                                                              | -       | -   | 40,4                                                                                     | -       | -   | 38,7                                                                                      | -       | -   | 36,5 | -       | -   |         |  |  |
| 46                                                                                                                                                                               | 37,9                                                                              | -       | -   | 35,8                                                                                     | -       | -   | 34,2                                                                                      | -       | -   | 32,1 | -       | -   |         |  |  |
| 50                                                                                                                                                                               | 33,9                                                                              | -       | -   | 31,9                                                                                     | -       | -   | 30,3                                                                                      | -       | -   | 28,3 | -       | -   |         |  |  |
| 53                                                                                                                                                                               | 31,2                                                                              | 18,3    | -   | 29,3                                                                                     | -       | -   | 27,7                                                                                      | -       | -   | 25,8 | -       | -   |         |  |  |
| 54                                                                                                                                                                               | 30,4                                                                              | 17,7    | -   | 28,5                                                                                     | -       | -   | 26,9                                                                                      | -       | -   | 25,0 | -       | -   |         |  |  |
| 56                                                                                                                                                                               | 28,8                                                                              | 16,5    | -   | 26,9                                                                                     | 14,4    | -   | 25,4                                                                                      | -       | -   | 23,5 | -       | -   |         |  |  |
| 58                                                                                                                                                                               | 27,3                                                                              | 15,3    | -   | 25,4                                                                                     | 13,3    | -   | 24,0                                                                                      | 11,7    | -   | 22,1 | -       | -   |         |  |  |
| 61                                                                                                                                                                               | 25,3                                                                              | 13,8    | -   | 23,4                                                                                     | 11,8    | -   | 21,9                                                                                      | 10,2    | -   | 20,1 | 8,3     | -   |         |  |  |
| 62                                                                                                                                                                               | 24,7                                                                              | 13,3    | -   | 22,8                                                                                     | 11,3    | -   | 21,3                                                                                      | 9,8     | -   | 19,5 | 7,8     | -   |         |  |  |
| 66                                                                                                                                                                               | 22,3                                                                              | 11,5    | -   | 20,4                                                                                     | 9,5     | -   | 19,0                                                                                      | 8,0     | -   | 17,2 | 6,1     | -   |         |  |  |
| 70                                                                                                                                                                               | 19,9                                                                              | 9,7     | -   | 18,3                                                                                     | 7,9     | -   | 16,9                                                                                      | 6,5     | -   | 15,2 | 4,6     | -   |         |  |  |
| 71                                                                                                                                                                               | 19,3                                                                              | 9,2     | -   | 17,8                                                                                     | 7,5     | -   | 16,4                                                                                      | 6,1     | -   | 14,7 | 4,2     | -   |         |  |  |
| 74                                                                                                                                                                               | 17,7                                                                              | 8,0     | -   | 16,3                                                                                     | 6,5     | -   | 15,0                                                                                      | 5,1     | -   | 13,3 | -       | -   |         |  |  |
| 77                                                                                                                                                                               | 16,2                                                                              | 6,8     | -   | 14,8                                                                                     | 5,3     | -   | 13,7                                                                                      | 4,1     | -   | 12,0 | -       | -   |         |  |  |
| 78                                                                                                                                                                               | 15,7                                                                              | 6,5     | -   | 14,4                                                                                     | 5,0     | -   | 13,3                                                                                      | -       | -   | 11,6 | -       | -   |         |  |  |
| 81                                                                                                                                                                               | 14,4                                                                              | 5,5     | -   | 13,0                                                                                     | 4,0     | -   | 12,1                                                                                      | -       | -   | 10,4 | -       | -   |         |  |  |
| 82                                                                                                                                                                               | 12,5*                                                                             | 5,2     | -   | 12,6                                                                                     | -       | -   | 11,8                                                                                      | -       | -   | 10,1 | -       | -   |         |  |  |
| 83                                                                                                                                                                               | 12,2*                                                                             | 4,9     | -   | 12,2                                                                                     | -       | -   | 11,4                                                                                      | -       | -   | 9,7  | -       | -   |         |  |  |
| 86                                                                                                                                                                               | -                                                                                 | 4,1     | -   | 11,1                                                                                     | -       | -   | 10,3                                                                                      | -       | -   | 8,7  | -       | -   |         |  |  |
| 88                                                                                                                                                                               | -                                                                                 | -       | -   | 9,0*                                                                                     | -       | -   | 9,6                                                                                       | -       | -   | 8,0  | -       | -   |         |  |  |
| 90                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -   | 8,9                                                                                       | -       | -   | 7,4  | -       | -   |         |  |  |
| 94                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -   | 6,3*                                                                                      | -       | -   | 6,3  | -       | -   |         |  |  |
| 98                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -   | -                                                                                         | -       | -   | 5,3  | -       | -   |         |  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |     |  8,40 m |         |      |  9.8 m/s |         |      | 360° |         |      | EN13000 |         |      |     |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----|------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|------|------|---------|------|---------|---------|------|-----|
|  66 m                                                                                           |                                                                                   |         |     |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |         |      |     |
|                                                                                                 |  | 24 m    |     |                                                                                          | 30 m    |      |                                                                                           | 36 m    |      |      | 42 m    |      |         | 48 m    |      |     |
|                                                                                                                                                                                  |                                                                                   | SW_1    |     |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |         |      |     |
|                                                                                                 |  | 87°/85° | 75° | 65°                                                                                      | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°     | 87°/85° | 75°  | 65° |
| m                                                                                                                                                                                | t                                                                                 | t       | t   | t                                                                                        | t       | t    | t                                                                                         | t       | t    | t    | t       | t    | t       | t       | t    | t   |
| 13                                                                                                                                                                               | 182,0                                                                             | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | -   |
| 14                                                                                                                                                                               | 171,0                                                                             | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | -   |
| 15                                                                                                                                                                               | 161,0                                                                             | -       | -   | -                                                                                        | 155,0   | -    | -                                                                                         | -       | -    | -    | -       | -    | -       | -       | -    | -   |
| 16                                                                                                                                                                               | 152,0                                                                             | -       | -   | -                                                                                        | 147,0   | -    | -                                                                                         | 141,0   | -    | -    | -       | -    | -       | -       | -    | -   |
| 17                                                                                                                                                                               | 144,0                                                                             | -       | -   | -                                                                                        | 139,0   | -    | -                                                                                         | 134,0   | -    | -    | 129,0   | -    | -       | -       | -    | -   |
| 18                                                                                                                                                                               | 137,0                                                                             | -       | -   | -                                                                                        | 132,0   | -    | -                                                                                         | 127,0   | -    | -    | 123,0   | -    | -       | 118,0   | -    | -   |
| 20                                                                                                                                                                               | 125,0                                                                             | -       | -   | -                                                                                        | 120,0   | -    | -                                                                                         | 116,0   | -    | -    | 112,0   | -    | -       | 107,0   | -    | -   |
| 22                                                                                                                                                                               | 114,0                                                                             | -       | -   | -                                                                                        | 110,0   | -    | -                                                                                         | 106,0   | -    | -    | 103,0   | -    | -       | 98,5    | -    | -   |
| 24                                                                                                                                                                               | 105,0                                                                             | -       | -   | -                                                                                        | 101,0   | -    | -                                                                                         | 98,0    | -    | -    | 95,0    | -    | -       | 90,5    | -    | -   |
| 26                                                                                                                                                                               | 98,0                                                                              | -       | -   | -                                                                                        | 94,5    | -    | -                                                                                         | 90,5    | -    | -    | 88,0    | -    | -       | 84,0    | -    | -   |
| 28                                                                                                                                                                               | 91,0                                                                              | -       | -   | -                                                                                        | 88,0    | -    | -                                                                                         | 84,5    | -    | -    | 82,0    | -    | -       | 78,0    | -    | -   |
| 30                                                                                                                                                                               | 79,5*                                                                             | -       | -   | -                                                                                        | 81,5    | -    | -                                                                                         | 79,0    | -    | -    | 76,5    | -    | -       | 73,0    | -    | -   |
| 31                                                                                                                                                                               | 76,0*                                                                             | -       | -   | -                                                                                        | 78,3    | -    | -                                                                                         | 76,3    | -    | -    | 74,2    | -    | -       | 70,7    | -    | -   |
| 32                                                                                                                                                                               | -                                                                                 | 57,0    | -   | -                                                                                        | 75,2    | -    | -                                                                                         | 73,7    | -    | -    | 72,0    | -    | -       | 68,5    | -    | -   |
| 34                                                                                                                                                                               | -                                                                                 | 52,5    | -   | -                                                                                        | 69,0    | -    | -                                                                                         | 68,5    | -    | -    | 67,5    | -    | -       | 64,0    | -    | -   |
| 35                                                                                                                                                                               | -                                                                                 | 50,6    | -   | -                                                                                        | 63,6*   | 48,9 | -                                                                                         | 66,1    | -    | -    | 65,2    | -    | -       | 62,2    | -    | -   |
| 37                                                                                                                                                                               | -                                                                                 | 46,8    | -   | -                                                                                        | 59,0*   | 45,1 | -                                                                                         | 61,3    | 44,0 | -    | 60,7    | -    | -       | 58,7    | -    | -   |
| 38                                                                                                                                                                               | -                                                                                 | 45,0    | -   | -                                                                                        | -       | 43,2 | -                                                                                         | 59,0    | 42,2 | -    | 58,5    | -    | -       | 57,0    | -    | -   |
| 40                                                                                                                                                                               | -                                                                                 | 41,9    | -   | -                                                                                        | -       | 40,1 | -                                                                                         | 55,0    | 39,1 | -    | 54,7    | 38,3 | -       | 53,4    | -    | -   |
| 42                                                                                                                                                                               | -                                                                                 | 38,9    | -   | -                                                                                        | -       | 37,0 | -                                                                                         | 49,0*   | 36,1 | -    | 51,0    | 35,4 | -       | 49,8    | 33,5 | -   |
| 43                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | 35,8 | -                                                                                         | 47,5*   | 34,8 | -    | 49,5    | 34,0 | -       | 48,2    | 32,2 | -   |
| 46                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | 32,2 | -                                                                                         | -       | 31,2 | -    | 45,0    | 30,5 | -       | 43,7    | 28,6 | -   |
| 47                                                                                                                                                                               | -                                                                                 | -       | -   | 21,4                                                                                     | -       | 31,2 | -                                                                                         | -       | 30,2 | -    | 41,4*   | 29,5 | -       | 42,4    | 27,6 | -   |
| 48                                                                                                                                                                               | -                                                                                 | -       | -   | 20,6                                                                                     | -       | 30,2 | -                                                                                         | -       | 29,2 | -    | 40,2*   | 28,5 | -       | 41,2    | 26,6 | -   |
| 50                                                                                                                                                                               | -                                                                                 | -       | -   | 19,2                                                                                     | -       | -    | 17,1                                                                                      | -       | 27,2 | -    | -       | 26,5 | -       | 38,7    | 24,6 | -   |
| 53                                                                                                                                                                               | -                                                                                 | -       | -   | 17,3                                                                                     | -       | -    | 15,3                                                                                      | -       | 24,8 | -    | -       | 24,0 | -       | 33,5*   | 22,1 | -   |
| 54                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | 14,7                                                                                      | -       | 24,1 | 13,5 | -       | 23,2 | -       | 32,6*   | 21,3 | -   |
| 57                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | 13,2                                                                                      | -       | -    | 11,9 | -       | 21,1 | 11,0    | -       | 19,2 | -   |
| 58                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | 12,8                                                                                      | -       | -    | 11,4 | -       | 20,5 | 10,5    | -       | 18,5 | -   |
| 59                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | 12,4                                                                                      | -       | -    | 11,0 | -       | 19,9 | 10,0    | -       | 17,9 | -   |
| 60                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 10,6 | -       | 19,4 | 9,6     | -       | 17,3 | 7,5 |
| 62                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 9,8  | -       | -    | 8,8     | -       | 16,2 | 6,7 |
| 65                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | 8,8  | -       | -    | 7,7     | -       | 14,8 | 5,6 |
| 66                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 7,4     | -       | 14,4 | 5,3 |
| 70                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 6,3     | -       | -    | 4,1 |
| 71                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    | 6,1     | -       | -    | -   |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
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87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |         |     |  8,40 m |         |      |  9.8 m/s |         |      | 360° |         |      | EN13000 |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------|-----|------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|------|------|---------|------|---------|--|
|  66 m                                                                                           |                                                                                   |         |     |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |  |
|                                                                                                 |  | 54 m    |     |                                                                                          | 60 m    |      |                                                                                           | 66 m    |      |      | 72 m    |      |         |  |
|                                                                                                                                                                                  |                                                                                   | SW_1    |     |                                                                                          |         |      |                                                                                           |         |      |      |         |      |         |  |
|                                                                                                                                                                                  |                                                                                   | 87°/85° | 75° | 65°                                                                                      | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75°  | 65°  | 87°/85° | 75°  | 65°     |  |
| m                                                                                                                                                                                | t                                                                                 | t       | t   | t                                                                                        | t       | t    | t                                                                                         | t       | t    | t    | t       | t    |         |  |
| 20                                                                                                                                                                               | 102,0                                                                             | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | -    |         |  |
| 21                                                                                                                                                                               | 98,5                                                                              | -       | -   | -                                                                                        | 90,0    | -    | -                                                                                         | -       | -    | -    | -       | -    |         |  |
| 22                                                                                                                                                                               | 95,0                                                                              | -       | -   | -                                                                                        | 89,0    | -    | -                                                                                         | 78,5    | -    | -    | -       | -    |         |  |
| 24                                                                                                                                                                               | 87,5                                                                              | -       | -   | -                                                                                        | 84,5    | -    | -                                                                                         | 77,0    | -    | -    | 67,0    | -    |         |  |
| 26                                                                                                                                                                               | 81,0                                                                              | -       | -   | -                                                                                        | 78,0    | -    | -                                                                                         | 75,5    | -    | -    | 66,0    | -    |         |  |
| 28                                                                                                                                                                               | 75,5                                                                              | -       | -   | -                                                                                        | 72,5    | -    | -                                                                                         | 70,0    | -    | -    | 65,0    | -    |         |  |
| 30                                                                                                                                                                               | 70,5                                                                              | -       | -   | -                                                                                        | 67,5    | -    | -                                                                                         | 65,5    | -    | -    | 62,5    | -    |         |  |
| 34                                                                                                                                                                               | 62,0                                                                              | -       | -   | -                                                                                        | 59,5    | -    | -                                                                                         | 57,0    | -    | -    | 54,5    | -    |         |  |
| 38                                                                                                                                                                               | 55,0                                                                              | -       | -   | -                                                                                        | 52,5    | -    | -                                                                                         | 50,5    | -    | -    | 48,4    | -    |         |  |
| 42                                                                                                                                                                               | 49,1                                                                              | -       | -   | -                                                                                        | 46,9    | -    | -                                                                                         | 45,2    | -    | -    | 42,9    | -    |         |  |
| 45                                                                                                                                                                               | 45,1                                                                              | 29,4    | -   | -                                                                                        | 43,3    | -    | -                                                                                         | 41,5    | -    | -    | 39,4    | -    |         |  |
| 46                                                                                                                                                                               | 43,8                                                                              | 28,5    | -   | -                                                                                        | 42,1    | -    | -                                                                                         | 40,5    | -    | -    | 38,3    | -    |         |  |
| 48                                                                                                                                                                               | 41,2                                                                              | 26,5    | -   | -                                                                                        | 40,0    | 24,8 | -                                                                                         | 38,4    | -    | -    | 36,3    | -    |         |  |
| 50                                                                                                                                                                               | 38,7                                                                              | 24,5    | -   | -                                                                                        | 37,9    | 23,2 | -                                                                                         | 36,4    | 21,6 | -    | 34,3    | -    |         |  |
| 53                                                                                                                                                                               | 35,5                                                                              | 22,0    | -   | -                                                                                        | 34,6    | 20,7 | -                                                                                         | 33,7    | 19,6 | -    | 31,7    | 17,4 |         |  |
| 54                                                                                                                                                                               | 34,5                                                                              | 21,2    | -   | -                                                                                        | 33,6    | 19,9 | -                                                                                         | 32,9    | 19,0 | -    | 30,9    | 16,8 |         |  |
| 58                                                                                                                                                                               | 31,0                                                                              | 18,4    | -   | -                                                                                        | 30,1    | 17,1 | -                                                                                         | 29,4    | 16,2 | -    | 27,9    | 14,6 |         |  |
| 60                                                                                                                                                                               | 27,6*                                                                             | 17,2    | -   | -                                                                                        | 28,5    | 15,9 | -                                                                                         | 27,9    | 15,0 | -    | 26,5    | 13,6 |         |  |
| 62                                                                                                                                                                               | -                                                                                 | 16,0    | -   | -                                                                                        | 27,0    | 14,7 | -                                                                                         | 26,4    | 13,8 | -    | 25,2    | 12,7 |         |  |
| 64                                                                                                                                                                               | -                                                                                 | 15,0    | 5,7 | -                                                                                        | 23,7*   | 13,7 | -                                                                                         | 25,0    | 12,8 | -    | 24,0    | 11,8 |         |  |
| 66                                                                                                                                                                               | -                                                                                 | 14,0    | 5,0 | -                                                                                        | 22,5*   | 12,7 | -                                                                                         | 23,6    | 11,8 | -    | 22,8    | 10,9 |         |  |
| 69                                                                                                                                                                               | -                                                                                 | 12,7    | 4,0 | -                                                                                        | -       | 11,3 | -                                                                                         | 21,8    | 10,4 | -    | 21,0    | 9,5  |         |  |
| 70                                                                                                                                                                               | -                                                                                 | 12,3    | -   | -                                                                                        | -       | 10,9 | -                                                                                         | 19,3*   | 10,0 | -    | 20,4    | 9,1  |         |  |
| 71                                                                                                                                                                               | -                                                                                 | 11,9    | -   | -                                                                                        | -       | 10,5 | -                                                                                         | 18,8*   | 9,6  | -    | 19,8    | 8,7  |         |  |
| 72                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | 10,1 | -                                                                                         | 18,3*   | 9,2  | -    | 19,3    | 8,3  |         |  |
| 74                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | 9,4  | -                                                                                         | -       | 8,4  | -    | 18,2    | 7,5  |         |  |
| 77                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | 8,4  | -                                                                                         | -       | 7,4  | -    | 15,0*   | 6,4  |         |  |
| 78                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | 7,1  | -    | -       | 6,1  |         |  |
| 82                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | 5,9  | -    | -       | 4,9  |         |  |
| 83                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | 5,7  | -    | -       | 4,6  |         |  |
| 85                                                                                                                                                                               | -                                                                                 | -       | -   | -                                                                                        | -       | -    | -                                                                                         | -       | -    | -    | -       | 4,0  |         |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
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Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
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87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  205 t +  50 t |                                                                                   |                                                                                   |                                                                                   |  8,40 m |         |      |  9.8 m/s |         |     | 360° |         |     | EN13000 |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|---------|------|-------------------------------------------------------------------------------------------|---------|-----|------|---------|-----|---------|--|--|
|  66 m                                                                                           |                                                                                   |                                                                                   |                                                                                   |                                                                                          |         |      |                                                                                           |         |     |      |         |     |         |  |  |
|                                                                                                 |  | 78 m                                                                              |                                                                                   |                                                                                          | 84 m    |      |                                                                                           | 90 m    |     |      | 96 m    |     |         |  |  |
|                                                                                                                                                                                  |                                                                                   | SW_1                                                                              |                                                                                   |                                                                                          |         |      |                                                                                           |         |     |      |         |     |         |  |  |
|                                                                                                                                                                                  |                                                                                   |  |  |                                                                                          |         |      |                                                                                           |         |     |      |         |     |         |  |  |
|                                                                                                                                                                                  |                                                                                   | 87°/85°                                                                           | 75°                                                                               | 65°                                                                                      | 87°/85° | 75°  | 65°                                                                                       | 87°/85° | 75° | 65°  | 87°/85° | 75° | 65°     |  |  |
| m                                                                                                                                                                                | t                                                                                 | t                                                                                 | t                                                                                 | t                                                                                        | t       | t    | t                                                                                         | t       | t   | t    | t       | t   | t       |  |  |
| 25                                                                                                                                                                               | 58,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | -       | -    | -                                                                                         | -       | -   | -    | -       | -   | -       |  |  |
| 26                                                                                                                                                                               | 57,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 50,0    | -    | -                                                                                         | -       | -   | -    | -       | -   | -       |  |  |
| 28                                                                                                                                                                               | 57,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 49,9    | -    | -                                                                                         | 43,1    | -   | -    | -       | -   | -       |  |  |
| 29                                                                                                                                                                               | 56,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 49,6    | -    | -                                                                                         | 42,8    | -   | -    | 36,9    | -   | -       |  |  |
| 30                                                                                                                                                                               | 56,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 49,3    | -    | -                                                                                         | 42,6    | -   | -    | 36,7    | -   | -       |  |  |
| 34                                                                                                                                                                               | 52,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 48,1    | -    | -                                                                                         | 41,7    | -   | -    | 36,0    | -   | -       |  |  |
| 38                                                                                                                                                                               | 46,4                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 44,1    | -    | -                                                                                         | 40,5    | -   | -    | 35,1    | -   | -       |  |  |
| 42                                                                                                                                                                               | 41,0                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 38,9    | -    | -                                                                                         | 37,1    | -   | -    | 34,2    | -   | -       |  |  |
| 46                                                                                                                                                                               | 36,5                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 34,4    | -    | -                                                                                         | 32,8    | -   | -    | 30,7    | -   | -       |  |  |
| 50                                                                                                                                                                               | 32,6                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 30,6    | -    | -                                                                                         | 29,0    | -   | -    | 27,0    | -   | -       |  |  |
| 54                                                                                                                                                                               | 29,2                                                                              | -                                                                                 | -                                                                                 | -                                                                                        | 27,3    | -    | -                                                                                         | 25,7    | -   | -    | 23,8    | -   | -       |  |  |
| 55                                                                                                                                                                               | 28,4                                                                              | 14,6                                                                              | -                                                                                 | -                                                                                        | 26,5    | -    | -                                                                                         | 25,0    | -   | -    | 23,1    | -   | -       |  |  |
| 58                                                                                                                                                                               | 26,3                                                                              | 13,0                                                                              | -                                                                                 | -                                                                                        | 24,4    | 10,9 | -                                                                                         | 22,9    | -   | -    | 21,0    | -   | -       |  |  |
| 60                                                                                                                                                                               | 24,9                                                                              | 12,0                                                                              | -                                                                                 | -                                                                                        | 23,1    | 10,0 | -                                                                                         | 21,6    | 8,4 | -    | 19,7    | -   | -       |  |  |
| 62                                                                                                                                                                               | 23,6                                                                              | 11,1                                                                              | -                                                                                 | -                                                                                        | 21,8    | 9,1  | -                                                                                         | 20,3    | 7,5 | -    | 18,5    | -   | -       |  |  |
| 66                                                                                                                                                                               | 21,3                                                                              | 9,4                                                                               | -                                                                                 | -                                                                                        | 19,5    | 7,4  | -                                                                                         | 18,1    | 5,9 | -    | 16,3    | -   | -       |  |  |
| 70                                                                                                                                                                               | 19,2                                                                              | 7,9                                                                               | -                                                                                 | -                                                                                        | 17,4    | 5,9  | -                                                                                         | 16,0    | 4,5 | -    | 14,3    | -   | -       |  |  |
| 71                                                                                                                                                                               | 18,7                                                                              | 7,5                                                                               | -                                                                                 | -                                                                                        | 16,9    | 5,5  | -                                                                                         | 15,5    | 4,1 | -    | 13,8    | -   | -       |  |  |
| 74                                                                                                                                                                               | 17,4                                                                              | 6,5                                                                               | -                                                                                 | -                                                                                        | 15,6    | 4,6  | -                                                                                         | 14,2    | -   | -    | 12,5    | -   | -       |  |  |
| 75                                                                                                                                                                               | 16,9                                                                              | 6,1                                                                               | -                                                                                 | -                                                                                        | 15,1    | 4,3  | -                                                                                         | 13,8    | -   | -    | 12,0    | -   | -       |  |  |
| 78                                                                                                                                                                               | 15,4                                                                              | 5,2                                                                               | -                                                                                 | -                                                                                        | 13,9    | -    | -                                                                                         | 12,6    | -   | -    | 10,8    | -   | -       |  |  |
| 81                                                                                                                                                                               | 14,1                                                                              | 4,2                                                                               | -                                                                                 | -                                                                                        | 12,7    | -    | -                                                                                         | 11,4    | -   | -    | 9,6     | -   | -       |  |  |
| 82                                                                                                                                                                               | 12,1*                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 12,3    | -    | -                                                                                         | 11,0    | -   | -    | 9,3     | -   | -       |  |  |
| 83                                                                                                                                                                               | 11,7*                                                                             | -                                                                                 | -                                                                                 | -                                                                                        | 11,9    | -    | -                                                                                         | 10,6    | -   | -    | 8,9     | -   | -       |  |  |
| 86                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | 10,8    | -    | -                                                                                         | 9,7     | -   | -    | 8,0     | -   | -       |  |  |
| 89                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | 8,2*    | -    | -                                                                                         | 8,8     | -   | -    | 7,0     | -   | -       |  |  |
| 90                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -       | -    | -                                                                                         | 8,5     | -   | -    | 6,7     | -   | -       |  |  |
| 94                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -       | -    | -                                                                                         | 5,7*    | -   | -    | 5,6     | -   | -       |  |  |
| 95                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -       | -    | -                                                                                         | 5,5*    | -   | -    | 5,3     | -   | -       |  |  |
| 98                                                                                                                                                                               | -                                                                                 | -                                                                                 | -                                                                                 | -                                                                                        | -       | -    | -                                                                                         | -       | -   | -    | 4,6     | -   | -       |  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75° and 65°, capacities for intermediate boom positions are calculated by the crane control system IC-1 ·  
Hauptauslegerwinkel 87°, 85°, 75° und 65°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1  
berechnet · Jarret de flèche principale 87°, 85°, 75° et 65°, le système de commande de la grue IC-1 calcule les charges pour les positions  
intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75° e 65°, capacità per posizioni intermedie del braccio sono calcolate dal  
sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75° y 65°, las capacidades para posiciones de pluma intermedias  
son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75° e 65°, as capacidades para posições da  
lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы  
87°, 85°, 75° и 65°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

SW

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|                                                                                                                                                                                                                                                                                                             |       |                                                                                          |     |                                                                                           |      |      |  |         |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|------------------------------------------------------------------------------------------|-----|-------------------------------------------------------------------------------------------|------|------|--|---------|--|
|  205 t +  50 t                                                                                                                            |       |  8,40 m |     |  9.8 m/s |      | 360° |  | EN13000 |  |
|  72 m                                                                                                                                                                                                                      |       |                                                                                          |     |                                                                                           |      |      |  |         |  |
| <div><div></div><div><div>42 m</div><div>48 m</div></div><div></div><div><div>SW_1</div><div>87°/85°75°65°87°/85°75°65°</div></div></div> |       |                                                                                          |     |                                                                                           |      |      |  |         |  |
| m                                                                                                                                                                                                                                                                                                           | t     | t                                                                                        | t   | t                                                                                         | t    | t    |  |         |  |
| 18                                                                                                                                                                                                                                                                                                          | 118,0 | -                                                                                        | -   | -                                                                                         | -    | -    |  |         |  |
| 19                                                                                                                                                                                                                                                                                                          | 113,0 | -                                                                                        | -   | 105,0                                                                                     | -    | -    |  |         |  |
| 20                                                                                                                                                                                                                                                                                                          | 108,0 | -                                                                                        | -   | 103,0                                                                                     | -    | -    |  |         |  |
| 22                                                                                                                                                                                                                                                                                                          | 99,0  | -                                                                                        | -   | 94,5                                                                                      | -    | -    |  |         |  |
| 24                                                                                                                                                                                                                                                                                                          | 91,5  | -                                                                                        | -   | 87,5                                                                                      | -    | -    |  |         |  |
| 26                                                                                                                                                                                                                                                                                                          | 84,5  | -                                                                                        | -   | 81,0                                                                                      | -    | -    |  |         |  |
| 28                                                                                                                                                                                                                                                                                                          | 79,0  | -                                                                                        | -   | 75,0                                                                                      | -    | -    |  |         |  |
| 30                                                                                                                                                                                                                                                                                                          | 74,0  | -                                                                                        | -   | 70,0                                                                                      | -    | -    |  |         |  |
| 34                                                                                                                                                                                                                                                                                                          | 65,0  | -                                                                                        | -   | 62,0                                                                                      | -    | -    |  |         |  |
| 38                                                                                                                                                                                                                                                                                                          | 58,0  | -                                                                                        | -   | 55,0                                                                                      | -    | -    |  |         |  |
| 42                                                                                                                                                                                                                                                                                                          | 50,5  | 32,3                                                                                     | -   | 49,3                                                                                      | -    | -    |  |         |  |
| 44                                                                                                                                                                                                                                                                                                          | 47,5  | 30,0                                                                                     | -   | 46,2                                                                                      | 28,0 | -    |  |         |  |
| 46                                                                                                                                                                                                                                                                                                          | 44,5  | 27,7                                                                                     | -   | 43,2                                                                                      | 25,8 | -    |  |         |  |
| 49                                                                                                                                                                                                                                                                                                          | 38,3* | 24,8                                                                                     | -   | 39,5                                                                                      | 22,9 | -    |  |         |  |
| 50                                                                                                                                                                                                                                                                                                          | -     | 23,9                                                                                     | -   | 38,3                                                                                      | 22,0 | -    |  |         |  |
| 54                                                                                                                                                                                                                                                                                                          | -     | 20,8                                                                                     | -   | 31,9*                                                                                     | 18,9 | -    |  |         |  |
| 55                                                                                                                                                                                                                                                                                                          | -     | 20,1                                                                                     | -   | 31,0*                                                                                     | 18,2 | -    |  |         |  |
| 58                                                                                                                                                                                                                                                                                                          | -     | 18,2                                                                                     | -   | -                                                                                         | 16,3 | -    |  |         |  |
| 60                                                                                                                                                                                                                                                                                                          | -     | 17,1                                                                                     | 6,2 | -                                                                                         | 15,2 | -    |  |         |  |
| 61                                                                                                                                                                                                                                                                                                          | -     | 16,6                                                                                     | 5,8 | -                                                                                         | 14,6 | -    |  |         |  |
| 62                                                                                                                                                                                                                                                                                                          | -     | -                                                                                        | 5,5 | -                                                                                         | 14,1 | -    |  |         |  |
| 66                                                                                                                                                                                                                                                                                                          | -     | -                                                                                        | 4,2 | -                                                                                         | 12,3 | -    |  |         |  |
| 67                                                                                                                                                                                                                                                                                                          | -     | -                                                                                        | -   | -                                                                                         | 11,9 | -    |  |         |  |

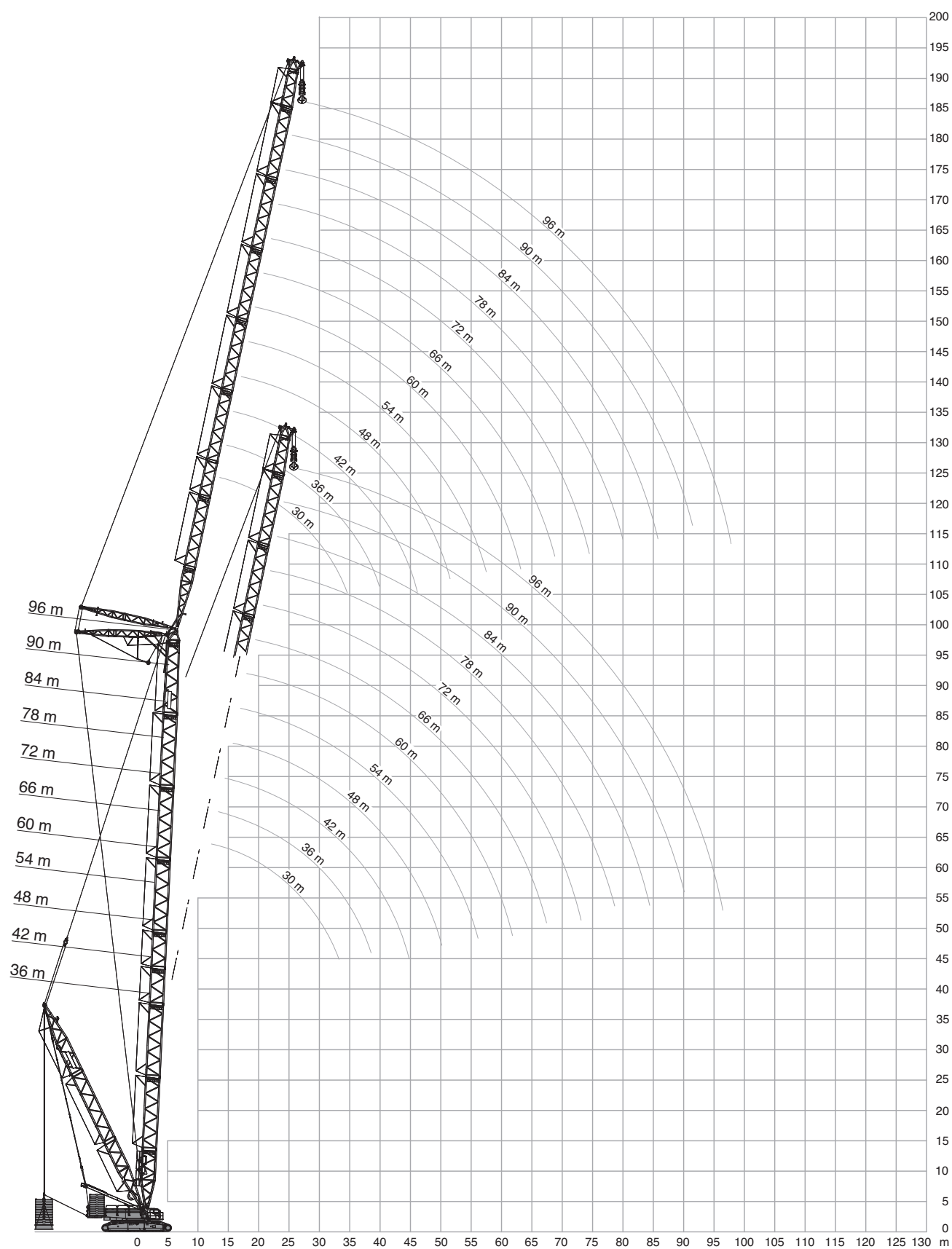
|  72 m |                                                                                     |         |     |       |         |     |       |         |     |     |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|-----|-------|---------|-----|-------|---------|-----|-----|
|       |  | 54 m    |     |       | 60 m    |     |       | 66 m    |     |     |
|                                                                                          |                                                                                     | SW_1    |     |       |         |     |       |         |     |     |
|                                                                                          |                                                                                     | 87°/85° | 75° | 65°   | 87°/85° | 75° | 65°   | 87°/85° | 75° | 65° |
| m                                                                                        | t                                                                                   | t       | t   | t     | t       | t   | t     | t       | t   | t   |
| 20                                                                                       | 93,0                                                                                | -       | -   | -     | -       | -   | -     | -       | -   | -   |
| 21                                                                                       | 92,0                                                                                | -       | -   | 81,5  | -       | -   | -     | -       | -   | -   |
| 22                                                                                       | 91,0                                                                                | -       | -   | 81,0  | -       | -   | -     | -       | -   | -   |
| 23                                                                                       | 87,7                                                                                | -       | -   | 80,2  | -       | -   | 69,5  | -       | -   | -   |
| 24                                                                                       | 84,5                                                                                | -       | -   | 79,5  | -       | -   | 69,0  | -       | -   | -   |
| 26                                                                                       | 78,0                                                                                | -       | -   | 75,0  | -       | -   | 68,0  | -       | -   | -   |
| 28                                                                                       | 72,5                                                                                | -       | -   | 70,0  | -       | -   | 66,5  | -       | -   | -   |
| 30                                                                                       | 68,0                                                                                | -       | -   | 65,0  | -       | -   | 63,0  | -       | -   | -   |
| 34                                                                                       | 59,5                                                                                | -       | -   | 57,0  | -       | -   | 55,0  | -       | -   | -   |
| 38                                                                                       | 53,0                                                                                | -       | -   | 50,5  | -       | -   | 48,8  | -       | -   | -   |
| 42                                                                                       | 47,4                                                                                | -       | -   | 45,2  | -       | -   | 43,4  | -       | -   | -   |
| 46                                                                                       | 42,7                                                                                | -       | -   | 40,6  | -       | -   | 38,9  | -       | -   | -   |
| 47                                                                                       | 41,6                                                                                | 24,3    | -   | 39,6  | -       | -   | 37,9  | -       | -   | -   |
| 49                                                                                       | 39,5                                                                                | 22,7    | -   | 37,6  | 20,8    | -   | 35,9  | -       | -   | -   |
| 50                                                                                       | 38,3                                                                                | 22,0    | -   | 36,6  | 20,1    | -   | 35,0  | -       | -   | -   |
| 52                                                                                       | 36,2                                                                                | 20,4    | -   | 34,9  | 18,8    | -   | 33,3  | 17,2    | -   | -   |
| 54                                                                                       | 34,1                                                                                | 18,9    | -   | 33,2  | 17,6    | -   | 31,6  | 16,0    | -   | -   |
| 58                                                                                       | 30,6                                                                                | 16,2    | -   | 29,7  | 14,9    | -   | 28,6  | 14,0    | -   | -   |
| 60                                                                                       | 26,9*                                                                               | 15,0    | -   | 28,2  | 13,7    | -   | 27,3  | 12,9    | -   | -   |
| 62                                                                                       | -                                                                                   | 13,9    | -   | 26,7  | 12,7    | -   | 26,0  | 11,8    | -   | -   |
| 66                                                                                       | -                                                                                   | 12,0    | -   | 21,8* | 10,7    | -   | 23,2  | 9,8     | -   | -   |
| 70                                                                                       | -                                                                                   | 10,4    | -   | -     | 9,1     | -   | 20,8  | 8,1     | -   | -   |
| 72                                                                                       | -                                                                                   | 9,7     | -   | -     | 8,3     | -   | 17,7* | 7,4     | -   | -   |
| 73                                                                                       | -                                                                                   | 9,4     | -   | -     | 7,9     | -   | -     | 7,0     | -   | -   |
| 74                                                                                       | -                                                                                   | -       | -   | -     | 7,6     | -   | -     | 6,7     | -   | -   |
| 78                                                                                       | -                                                                                   | -       | -   | -     | 6,4     | -   | -     | 5,4     | -   | -   |
| 79                                                                                       | -                                                                                   | -       | -   | -     | 6,2     | -   | -     | 5,1     | -   | -   |
| 82                                                                                       | -                                                                                   | -       | -   | -     | -       | -   | -     | 4,3     | -   | -   |
| 83                                                                                       | -                                                                                   | -       | -   | -     | -       | -   | -     | 4,1     | -   | -   |

For explanations see page 148 · Bemerkungen siehe Seite 148 · Pour plus de détails, voir page 148 · Per spiegazioni vedere a pagina 148 ·  
Véase página 148 para más información · Para explicações, ver página 148 · Объяснения см. на стр. 148

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-19 m 8,40 m 9.8 m/s 360° EN13000 |         |     |       |       |       |       |
|--------------------------------------------------|---------|-----|-------|-------|-------|-------|
| 36 m + 24 m                                      |         |     |       |       |       |       |
| SWSL_1   SFSL_1                                  |         |     |       |       |       |       |
| 0 t   0 t-325 t                                  |         |     |       |       |       |       |
| m                                                | t       | t   | t     | t     | t     | t     |
| 87°/85°                                          | 87°/85° | 75° | 65°   | 55°   | 15°   |       |
| 24                                               | -       | -   | 347,0 | -     | -     | -     |
| 25                                               | -       | -   | 336,0 | -     | -     | 336,0 |
| 26                                               | -       | -   | 324,0 | -     | -     | 323,0 |
| 28                                               | -       | -   | 301,0 | -     | -     | 298,0 |
| 30                                               | -       | -   | 280,0 | -     | -     | 276,0 |
| 33                                               | -       | -   | 238,0 | 248,0 | -     | 248,0 |
| 34                                               | -       | -   | 224,0 | 240,0 | -     | 238,6 |
| 35                                               | -       | -   | 205,0 | 232,7 | -     | 229,3 |
| 38                                               | -       | -   | -     | 211,0 | -     | 204,6 |
| 41                                               | -       | -   | -     | 194,0 | -     | 181,6 |
| 42                                               | -       | -   | -     | -     | 173,0 | 174,0 |
| 46                                               | -       | -   | -     | -     | 156,0 | 148,6 |
| 50                                               | -       | -   | -     | -     | -     | 125,3 |
| 54                                               | -       | -   | -     | -     | -     | 104,0 |
| 57                                               | -       | -   | -     | -     | -     | 89,5  |
| 36 m + 60 m                                      |         |     |       |       |       |       |
| SWSL_1   SFSL_1                                  |         |     |       |       |       |       |
| 0 t   0 t-325 t                                  |         |     |       |       |       |       |
| m                                                | t       | t   | t     | t     | t     | t     |
| 87°/85°                                          | 87°/85° | 75° | 65°   | 55°   | 15°   |       |
| 39                                               | -       | -   | 139,0 | -     | -     | -     |
| 42                                               | -       | -   | 139,0 | -     | -     | -     |
| 43                                               | -       | -   | 139,0 | -     | -     | 142,0 |
| 46                                               | -       | -   | 139,0 | -     | -     | 139,6 |
| 50                                               | -       | -   | 131,0 | -     | -     | 136,0 |
| 53                                               | -       | -   | 119,7 | 120,0 | -     | 133,0 |
| 54                                               | -       | -   | 116,0 | 120,0 | -     | 132,0 |
| 58                                               | -       | -   | 102,0 | 120,0 | -     | 120,6 |
| 62                                               | -       | -   | 90,0  | 110,0 | -     | 109,3 |
| 66                                               | -       | -   | 79,0  | 99,0  | -     | 98,0  |
| 67                                               | -       | -   | 76,0  | 96,3  | 92,5  | 95,4  |
| 69                                               | -       | -   | 70,0  | 91,1  | 89,5  | 90,2  |
| 70                                               | -       | -   | -     | 88,5  | 87,5  | 87,6  |
| 74                                               | -       | -   | -     | 77,5  | 81,5  | 78,0  |
| 75                                               | -       | -   | -     | 74,5  | 80,2  | 75,7  |
| 78                                               | -       | -   | -     | -     | 76,5  | 69,0  |
| 81                                               | -       | -   | -     | -     | 73,0  | 62,6  |
| 82                                               | -       | -   | -     | -     | -     | 60,5  |
| 86                                               | -       | -   | -     | -     | -     | 52,5  |
| 90                                               | -       | -   | -     | -     | -     | 44,6  |
| 91                                               | -       | -   | -     | -     | -     | 42,5  |
| 36 m + 36 m                                      |         |     |       |       |       |       |
| m                                                | t       | t   | t     | t     | t     | t     |
| 87°/85°                                          | 87°/85° | 75° | 65°   | 55°   | 15°   |       |
| 29                                               | -       | -   | 287,0 | -     | -     | -     |
| 30                                               | -       | -   | 277,0 | -     | -     | -     |
| 31                                               | -       | -   | 268,5 | -     | -     | 268,0 |
| 34                                               | -       | -   | 243,0 | -     | -     | 243,4 |
| 38                                               | -       | -   | 202,0 | -     | -     | 213,0 |
| 40                                               | -       | -   | 184,0 | 197,0 | -     | 199,0 |
| 42                                               | -       | -   | 166,0 | 186,0 | -     | 185,0 |
| 46                                               | -       | -   | 134,0 | 167,0 | -     | 162,3 |
| 50                                               | -       | -   | -     | 152,0 | 139,0 | 141,6 |
| 52                                               | -       | -   | -     | 141,0 | 132,3 | 132,3 |
| 54                                               | -       | -   | -     | -     | 127,0 | 123,0 |
| 58                                               | -       | -   | -     | -     | 116,0 | 107,0 |
| 62                                               | -       | -   | -     | -     | -     | 91,8  |
| 66                                               | -       | -   | -     | -     | -     | 77,5  |
| 68                                               | -       | -   | -     | -     | -     | 70,5  |
| 36 m + 72 m                                      |         |     |       |       |       |       |
| m                                                | t       | t   | t     | t     | t     | t     |
| 87°/85°                                          | 87°/85° | 75° | 65°   | 55°   | 15°   |       |
| 44                                               | -       | -   | 97,0  | -     | -     | -     |
| 46                                               | -       | -   | 97,0  | -     | -     | -     |
| 49                                               | -       | -   | 96,6  | -     | -     | 97,0  |
| 50                                               | -       | -   | 96,5  | -     | -     | 96,4  |
| 54                                               | -       | -   | 96,0  | -     | -     | 94,0  |
| 58                                               | -       | -   | 95,0  | -     | -     | 91,3  |
| 60                                               | -       | -   | 94,2  | 82,0  | -     | 90,0  |
| 62                                               | -       | -   | 93,5  | 82,0  | -     | 88,8  |
| 66                                               | -       | -   | 84,0  | 82,0  | -     | 86,5  |
| 70                                               | -       | -   | 75,0  | 82,0  | -     | 83,8  |
| 74                                               | -       | -   | 67,0  | 81,0  | -     | 80,0  |
| 75                                               | -       | -   | 65,0  | 79,2  | 70,0  | 78,7  |
| 78                                               | -       | -   | 59,0  | 74,0  | 70,0  | 75,0  |
| 81                                               | -       | -   | 53,0  | 68,0  | 69,6  | 69,3  |
| 82                                               | -       | -   | -     | 66,0  | 69,5  | 67,5  |
| 86                                               | -       | -   | -     | 58,5  | 65,0  | 60,0  |
| 87                                               | -       | -   | -     | 56,5  | 64,0  | 58,2  |
| 90                                               | -       | -   | -     | -     | 61,0  | 53,0  |
| 92                                               | -       | -   | -     | -     | 59,5  | 49,8  |
| 94                                               | -       | -   | -     | -     | -     | 46,6  |
| 98                                               | -       | -   | -     | -     | -     | 40,2  |
| 102                                              | -       | -   | -     | -     | -     | 33,7  |
| 103                                              | -       | -   | -     | -     | -     | 32,0  |
| 36 m + 48 m                                      |         |     |       |       |       |       |
| m                                                | t       | t   | t     | t     | t     | t     |
| 87°/85°                                          | 87°/85° | 75° | 65°   | 55°   | 15°   |       |
| 33                                               | -       | -   | 202,0 | -     | -     | -     |
| 34                                               | -       | -   | 202,0 | -     | -     | -     |
| 37                                               | -       | -   | 202,0 | -     | -     | 206,0 |
| 38                                               | -       | -   | 202,0 | -     | -     | 202,8 |
| 42                                               | -       | -   | 174,0 | -     | -     | 190,0 |
| 46                                               | -       | -   | 150,0 | -     | -     | 170,0 |
| 47                                               | -       | -   | 145,2 | 162,0 | -     | 165,0 |
| 50                                               | -       | -   | 131,0 | 151,0 | -     | 150,6 |
| 54                                               | -       | -   | 112,0 | 137,0 | -     | 132,0 |
| 58                                               | -       | -   | 94,5  | 125,0 | -     | 117,3 |
| 59                                               | -       | -   | -     | 120,7 | 112,0 | 113,6 |
| 62                                               | -       | -   | -     | 108,0 | 105,0 | 103,8 |
| 64                                               | -       | -   | -     | 99,5  | 101,5 | 97,6  |
| 66                                               | -       | -   | -     | -     | 98,0  | 91,5  |
| 69                                               | -       | -   | -     | -     | 92,5  | 83,0  |
| 70                                               | -       | -   | -     | -     | -     | 80,1  |
| 74                                               | -       | -   | -     | -     | -     | 69,3  |
| 78                                               | -       | -   | -     | -     | -     | 59,0  |
| 80                                               | -       | -   | -     | -     | -     | 53,5  |

see page 153 · siehe Seite 153 · voir page 153 · vedi pagina 153 ·  
ver página 153 · ver página 153 · см. на стр. 153

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-19 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |
|--------------------------------------------------|---------|---------|------|------|------|------|
| 36 m + 84 m                                      |         |         |      |      |      |      |
| SWSL_1   SFSL_1                                  |         |         |      |      |      |      |
| 0 t   0 t-325 t                                  |         |         |      |      |      |      |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  |
| 49                                               | -       | -       | 66,5 | -    | -    | -    |
| 50                                               | -       | -       | 66,5 | -    | -    | -    |
| 54                                               | -       | -       | 66,0 | -    | -    | -    |
| 55                                               | -       | -       | 65,8 | -    | -    | 66,0 |
| 58                                               | -       | -       | 65,5 | -    | -    | 64,8 |
| 62                                               | -       | -       | 65,0 | -    | -    | 63,1 |
| 66                                               | -       | -       | 64,0 | -    | -    | 61,5 |
| 67                                               | -       | -       | 63,8 | 55,0 | -    | 61,0 |
| 70                                               | -       | -       | 63,5 | 55,0 | -    | 59,5 |
| 74                                               | -       | -       | 63,0 | 55,0 | -    | 57,6 |
| 78                                               | -       | -       | 62,0 | 55,0 | -    | 56,0 |
| 82                                               | -       | -       | 56,0 | 55,0 | -    | 54,6 |
| 84                                               | -       | -       | 53,0 | 55,0 | 47,6 | 54,0 |
| 86                                               | -       | -       | 50,0 | 55,0 | 47,6 | 53,3 |
| 90                                               | -       | -       | 44,4 | 55,0 | 47,6 | 52,0 |
| 93                                               | -       | -       | 39,7 | 51,2 | 47,6 | 50,3 |
| 94                                               | -       | -       | -    | 50,0 | 47,6 | 49,7 |
| 98                                               | -       | -       | -    | 44,4 | 47,6 | 45,8 |
| 99                                               | -       | -       | -    | 42,8 | 47,6 | 44,4 |
| 102                                              | -       | -       | -    | -    | 47,6 | 40,3 |
| 104                                              | -       | -       | -    | -    | 46,3 | 37,6 |
| 106                                              | -       | -       | -    | -    | -    | 35,0 |
| 110                                              | -       | -       | -    | -    | -    | 29,7 |
| 114                                              | -       | -       | -    | -    | -    | 24,3 |
| 115                                              | -       | -       | -    | -    | -    | 22,8 |

| 42 m + 24 m     |         |         |       |       |       |       |
|-----------------|---------|---------|-------|-------|-------|-------|
| SWSL_1   SFSL_1 |         |         |       |       |       |       |
| 0 t   0 t-325 t |         |         |       |       |       |       |
| m               | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   |
| 11              | -       | 347,0   | -     | -     | -     | -     |
| 12              | 233,0   | 347,0   | -     | -     | -     | -     |
| 14              | 202,0   | 347,0*  | -     | -     | -     | -     |
| 16              | 177,0   | 347,0*  | -     | -     | -     | 347,0 |
| 18              | 158,0   | 347,0*  | -     | -     | -     | 347,0 |
| 20              | 143,0   | 347,0*  | -     | -     | -     | 347,0 |
| 22              | 130,0   | 331,0*  | -     | -     | -     | 347,0 |
| 24              | 115,0   | 291,0*  | -     | -     | -     | 347,0 |
| 25              | 109,5   | 270,5*  | 333,0 | -     | -     | 334,0 |
| 26              | 104,0   | 250,0*  | 321,0 | -     | -     | 321,0 |
| 27              | 98,5    | 231,5*  | 309,0 | -     | -     | 308,5 |
| 28              | 92,0*   | 213,0*  | 297,0 | -     | -     | 296,0 |
| 29              | 88,0*   | 194,0*  | 287,0 | -     | -     | 285,0 |
| 30              | -       | -       | 277,0 | -     | -     | 274,0 |
| 34              | -       | -       | 244,0 | -     | -     | 240,0 |
| 36              | -       | -       | 213,0 | 223,0 | -     | 223,0 |
| 38              | -       | -       | -     | 211,0 | -     | 210,6 |
| 42              | -       | -       | -     | 189,0 | -     | 186,0 |
| 43              | -       | -       | -     | 184,0 | -     | 180,5 |
| 46              | -       | -       | -     | -     | 165,0 | 164,0 |
| 50              | -       | -       | -     | -     | 150,0 | 142,3 |
| 54              | -       | -       | -     | -     | -     | 123,0 |
| 58              | -       | -       | -     | -     | -     | 106,3 |
| 62              | -       | -       | -     | -     | -     | 93,0  |

| 36 m + 96 m |   |   |      |      |      |      |
|-------------|---|---|------|------|------|------|
| m           | t | t | t    | t    | t    | t    |
| 54          | - | - | 46,5 | -    | -    | -    |
| 58          | - | - | 46,1 | -    | -    | -    |
| 61          | - | - | 45,8 | -    | -    | 46,1 |
| 62          | - | - | 45,7 | -    | -    | 45,7 |
| 66          | - | - | 45,2 | -    | -    | 44,4 |
| 70          | - | - | 44,6 | -    | -    | 43,1 |
| 74          | - | - | 44,1 | 37,9 | -    | 41,8 |
| 78          | - | - | 43,6 | 37,9 | -    | 40,5 |
| 82          | - | - | 43,0 | 37,9 | -    | 39,2 |
| 86          | - | - | 42,6 | 37,9 | -    | 38,0 |
| 90          | - | - | 42,2 | 37,9 | -    | 36,8 |
| 92          | - | - | 42,0 | 37,9 | 31,8 | 36,2 |
| 94          | - | - | 41,8 | 37,9 | 31,8 | 35,7 |
| 98          | - | - | 37,9 | 37,9 | 31,8 | 34,7 |
| 102         | - | - | 33,4 | 37,9 | 31,8 | 33,8 |
| 104         | - | - | 30,9 | 37,9 | 31,8 | 33,4 |
| 106         | - | - | -    | 37,9 | 31,8 | 33,0 |
| 110         | - | - | -    | 33,6 | 31,8 | 31,8 |
| 114         | - | - | -    | -    | 31,8 | 30,2 |
| 116         | - | - | -    | -    | 31,8 | 28,0 |
| 118         | - | - | -    | -    | -    | 25,8 |
| 122         | - | - | -    | -    | -    | 21,2 |
| 126         | - | - | -    | -    | -    | 16,6 |

| 42 m + 36 m |       |        |       |       |       |       |
|-------------|-------|--------|-------|-------|-------|-------|
| m           | t     | t      | t     | t     | t     | t     |
| 14          | 186,0 | 290,0  | -     | -     | -     | -     |
| 16          | 164,0 | 286,0  | -     | -     | -     | -     |
| 18          | 147,0 | 294,0* | -     | -     | -     | -     |
| 20          | 132,0 | 290,0* | -     | -     | -     | -     |
| 21          | 126,5 | 287,5* | -     | -     | -     | 285,0 |
| 22          | 121,0 | 285,0* | -     | -     | -     | 283,0 |
| 24          | 111,0 | 280,0* | -     | -     | -     | 282,0 |
| 26          | 102,0 | 267,0* | -     | -     | -     | 280,0 |
| 28          | 92,5  | 242,0* | -     | -     | -     | 279,0 |
| 30          | 84,0  | 217,0* | 274,0 | -     | -     | 276,0 |
| 34          | 71,0  | 176,0* | 241,0 | -     | -     | 242,0 |
| 38          | 61,5  | 142,0* | 214,0 | -     | -     | 212,3 |
| 39          | 59,5  | 133,5* | 204,7 | -     | -     | 206,0 |
| 40          | 56,0* | 125,0* | 195,5 | -     | -     | 199,6 |
| 42          | -     | -      | 177,0 | -     | -     | 187,0 |
| 43          | -     | -      | 169,0 | 181,0 | -     | 182,0 |
| 46          | -     | -      | 145,0 | 167,0 | -     | 167,0 |
| 48          | -     | -      | 128,0 | 159,5 | -     | 157,0 |
| 50          | -     | -      | -     | 152,0 | -     | 149,3 |
| 54          | -     | -      | -     | 139,0 | 134,0 | 134,0 |
| 55          | -     | -      | -     | 135,0 | 131,0 | 130,1 |
| 58          | -     | -      | -     | -     | 123,0 | 118,6 |
| 61          | -     | -      | -     | -     | 116,0 | 107,5 |
| 62          | -     | -      | -     | -     | -     | 104,1 |
| 66          | -     | -      | -     | -     | -     | 93,5  |
| 70          | -     | -      | -     | -     | -     | 80,8  |
| 73          | -     | -      | -     | -     | -     | 74,0  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

see page 153 · siehe Seite 153 · voir page 153 · vedi pagina 153 · ver página 153 · ver página 153 · см. на стр. 153

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-19 m 8,40 m 9.8 m/s 360° EN13000 |         |           |       |       |       |       |        |
|--------------------------------------------------|---------|-----------|-------|-------|-------|-------|--------|
| 42 m + 48 m                                      |         |           |       |       |       |       |        |
| m                                                | SWSL_1  |           |       |       |       |       | SFSL_1 |
|                                                  | 0 t     | 0 t-325 t |       |       |       |       |        |
|                                                  | 87°/85° | 87°/85°   | 75°   | 65°   | 55°   | 15°   |        |
| 17                                               | 144,0   | 203,0     | -     | -     | -     | -     | -      |
| 18                                               | 136,0   | 203,0     | -     | -     | -     | -     | -      |
| 20                                               | 123,0   | 205,0*    | -     | -     | -     | -     | -      |
| 22                                               | 112,0   | 205,0*    | -     | -     | -     | -     | -      |
| 24                                               | 103,0   | 204,0*    | -     | -     | -     | -     | -      |
| 25                                               | 99,0    | 203,0*    | -     | -     | -     | 201,0 | -      |
| 26                                               | 95,0    | 202,0*    | -     | -     | -     | 201,0 | -      |
| 28                                               | 88,0    | 201,0*    | -     | -     | -     | 201,0 | -      |
| 30                                               | 82,0    | 198,0*    | -     | -     | -     | 201,0 | -      |
| 34                                               | 70,0    | 189,0*    | -     | -     | -     | 198,0 | -      |
| 35                                               | 67,5    | 181,5*    | 191,0 | -     | -     | 198,0 | -      |
| 38                                               | 60,0    | 159,0*    | 191,0 | -     | -     | 195,0 | -      |
| 42                                               | 52,5    | 135,0*    | 188,0 | -     | -     | 189,0 | -      |
| 46                                               | 46,2    | 115,0*    | 160,0 | -     | -     | 169,0 | -      |
| 50                                               | 41,1    | 97,0*     | 137,0 | 149,0 | -     | 151,3 | -      |
| 51                                               | 40,0    | 92,2*     | 132,2 | 146,0 | -     | 147,5 | -      |
| 52                                               | 37,8*   | 87,5*     | 127,5 | 142,6 | -     | 143,6 | -      |
| 54                                               | -       | -         | 118,0 | 136,0 | -     | 136,0 | -      |
| 58                                               | -       | -         | 100,0 | 125,0 | -     | 124,0 | -      |
| 59                                               | -       | -         | 95,5  | 122,7 | -     | 121,0 | -      |
| 62                                               | -       | -         | -     | 116,0 | -     | 112,6 | -      |
| 63                                               | -       | -         | -     | 112,0 | 110,0 | 110,0 | -      |
| 66                                               | -       | -         | -     | 100,0 | 104,0 | 102,0 | -      |
| 70                                               | -       | -         | -     | -     | 97,0  | 90,3  | -      |
| 73                                               | -       | -         | -     | -     | 92,0  | 82,1  | -      |
| 74                                               | -       | -         | -     | -     | -     | 80,2  | -      |
| 78                                               | -       | -         | -     | -     | -     | 72,0  | -      |
| 82                                               | -       | -         | -     | -     | -     | 62,6  | -      |
| 85                                               | -       | -         | -     | -     | -     | 57,5  | -      |

| 42 m + 60 m |       |        |       |       |      |       |   |
|-------------|-------|--------|-------|-------|------|-------|---|
| m           | t     | t      | t     | t     | t    | t     | t |
| 20          | 115,0 | 145,0  | -     | -     | -    | -     | - |
| 22          | 105,0 | 144,0  | -     | -     | -    | -     | - |
| 24          | 96,5  | 145,0* | -     | -     | -    | -     | - |
| 26          | 89,0  | 145,0* | -     | -     | -    | -     | - |
| 28          | 82,5  | 144,0* | -     | -     | -    | -     | - |
| 30          | 76,5  | 144,0* | -     | -     | -    | 144,0 | - |
| 34          | 67,0  | 142,0* | -     | -     | -    | 142,6 | - |
| 38          | 59,0  | 139,0* | -     | -     | -    | 141,0 | - |
| 40          | 55,0  | 138,0* | 133,0 | -     | -    | 140,0 | - |
| 42          | 51,0  | 137,0* | 133,0 | -     | -    | 139,0 | - |
| 46          | 45,0  | 121,0* | 132,0 | -     | -    | 135,6 | - |
| 50          | 39,8  | 105,0* | 132,0 | -     | -    | 131,3 | - |
| 54          | 35,5  | 92,0*  | 123,0 | -     | -    | 128,0 | - |
| 56          | 33,6  | 86,0*  | 115,0 | 113,0 | -    | 124,6 | - |
| 58          | 31,8  | 80,0*  | 107,0 | 113,0 | -    | 121,3 | - |
| 62          | 28,7  | 68,0*  | 94,5  | 113,0 | -    | 113,3 | - |
| 64          | 26,4* | 61,5*  | 88,5  | 109,5 | -    | 108,6 | - |
| 66          | -     | -      | 82,5  | 106,0 | -    | 104,0 | - |
| 70          | -     | -      | 71,0  | 95,5  | -    | 96,0  | - |
| 71          | -     | -      | 68,0  | 92,6  | 93,5 | 94,0  | - |
| 74          | -     | -      | -     | 84,0  | 88,5 | 87,5  | - |
| 78          | -     | -      | -     | 72,5  | 82,5 | 78,5  | - |
| 82          | -     | -      | -     | -     | 77,5 | 69,7  | - |
| 84          | -     | -      | -     | -     | 75,0 | 67,0  | - |
| 86          | -     | -      | -     | -     | -    | 63,3  | - |
| 90          | -     | -      | -     | -     | -    | 56,0  | - |
| 94          | -     | -      | -     | -     | -    | 49,4  | - |
| 97          | -     | -      | -     | -     | -    | 44,8  | - |

| 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-----|------|-------|-------|-------|-------|-------|-------|
|-----|------|-------|-------|-------|-------|-------|-------|

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ángulo de pluma principal 85° · Ângulo da lança principal 85° ·  
Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ángulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-19 m 8,40 m 9.8 m/s 360° EN13000 |         |           |      |      |      |        |  |
|--------------------------------------------------|---------|-----------|------|------|------|--------|--|
| 42 m + 84 m                                      |         |           |      |      |      |        |  |
| m                                                | SWSL_1  |           |      |      |      | SFSL_1 |  |
|                                                  | 0 t     | 0 t-325 t |      |      |      |        |  |
|                                                  | 87°/85° | 87°/85°   | 75°  | 65°  | 55°  | 15°    |  |
| t                                                | t       | t         | t    | t    | t    | t      |  |
| 25                                               | 73,5    | 75,0      | -    | -    | -    | -      |  |
| 26                                               | 73,5    | 74,5      | -    | -    | -    | -      |  |
| 28                                               | 71,5    | 74,0      | -    | -    | -    | -      |  |
| 30                                               | 66,0    | 73,5      | -    | -    | -    | -      |  |
| 34                                               | 57,5    | 72,5      | -    | -    | -    | -      |  |
| 36                                               | 54,0    | 71,7      | -    | -    | -    | 71,5   |  |
| 38                                               | 50,5    | 71,0      | -    | -    | -    | 71,0   |  |
| 42                                               | 44,6    | 70,0      | -    | -    | -    | 70,0   |  |
| 46                                               | 39,5    | 68,5      | -    | -    | -    | 68,6   |  |
| 50                                               | 35,2    | 67,5      | 64,0 | -    | -    | 67,1   |  |
| 54                                               | 31,5    | 66,0      | 64,0 | -    | -    | 65,5   |  |
| 58                                               | 28,3    | 64,5      | 63,5 | -    | -    | 63,5   |  |
| 62                                               | 25,4    | 63,5      | 63,0 | -    | -    | 61,6   |  |
| 66                                               | 22,6    | 62,5      | 62,5 | -    | -    | 60,0   |  |
| 70                                               | 20,0    | 61,5      | 62,0 | 52,5 | -    | 58,3   |  |
| 74                                               | 17,7    | 55,5      | 62,0 | 52,5 | -    | 56,7   |  |
| 78                                               | 15,6    | 49,6      | 61,5 | 52,5 | -    | 55,0   |  |
| 82                                               | 13,8    | 43,6      | 58,0 | 52,5 | -    | 53,6   |  |
| 85                                               | 12,6    | 38,9      | 53,5 | 52,5 | -    | 52,2   |  |
| 86                                               | 11,4    | 37,4      | 52,0 | 52,5 | -    | 51,8   |  |
| 87                                               | 11,0    | 35,7      | 50,5 | 52,5 | 45,0 | 51,5   |  |
| 90                                               | -       | -         | 46,1 | 52,5 | 45,0 | 50,5   |  |
| 94                                               | -       | -         | 40,0 | 52,5 | 45,0 | 49,5   |  |
| 98                                               | -       | -         | -    | 47,7 | 45,0 | 48,4   |  |
| 101                                              | -       | -         | -    | 43,2 | 45,0 | 47,5   |  |
| 102                                              | -       | -         | -    | -    | 45,0 | 47,3   |  |
| 106                                              | -       | -         | -    | -    | 45,0 | 43,2   |  |
| 107                                              | -       | -         | -    | -    | 45,0 | 41,9   |  |
| 110                                              | -       | -         | -    | -    | -    | 38,0   |  |
| 114                                              | -       | -         | -    | -    | -    | 34,3   |  |
| 118                                              | -       | -         | -    | -    | -    | 29,2   |  |
| 120                                              | -       | -         | -    | -    | -    | 26,7   |  |

| 42 m + 96 m |         |           |      |      |      |        |  |
|-------------|---------|-----------|------|------|------|--------|--|
| m           | SWSL_1  |           |      |      |      | SFSL_1 |  |
|             | 0 t     | 0 t-325 t |      |      |      |        |  |
|             | 87°/85° | 87°/85°   | 75°  | 65°  | 55°  | 15°    |  |
| t           | t       | t         | t    | t    | t    | t      |  |
| 28          | 53,0    | 54,5      | -    | -    | -    | -      |  |
| 30          | 52,5    | 54,0      | -    | -    | -    | -      |  |
| 34          | 51,5    | 52,5      | -    | -    | -    | -      |  |
| 38          | 46,4    | 51,5      | -    | -    | -    | -      |  |
| 40          | 43,5    | 51,0      | -    | -    | -    | 51,0   |  |
| 42          | 40,7    | 50,5      | -    | -    | -    | 50,5   |  |
| 46          | 35,8    | 49,9      | -    | -    | -    | 49,7   |  |
| 50          | 31,7    | 48,9      | -    | -    | -    | 48,6   |  |
| 54          | 28,1    | 47,8      | -    | -    | -    | 47,4   |  |
| 55          | 27,3    | 47,5      | 44,7 | -    | -    | 47,0   |  |
| 58          | 24,9    | 46,8      | 44,5 | -    | -    | 46,1   |  |
| 62          | 22,1    | 45,9      | 44,3 | -    | -    | 44,8   |  |
| 66          | 19,6    | 44,9      | 43,9 | -    | -    | 43,5   |  |
| 70          | 17,4    | 43,9      | 43,5 | -    | -    | 42,1   |  |
| 74          | 15,4    | 43,1      | 43,1 | -    | -    | 40,8   |  |
| 77          | 14,0    | 42,5      | 42,7 | 36,0 | -    | 39,9   |  |
| 78          | 13,6    | 42,3      | 42,6 | 36,0 | -    | 39,6   |  |
| 82          | 11,9    | 41,5      | 42,2 | 36,0 | -    | 38,4   |  |
| 86          | 10,2    | 40,6      | 41,8 | 36,0 | -    | 37,2   |  |
| 90          | 8,8     | 36,7      | 41,5 | 36,0 | -    | 36,0   |  |
| 94          | 7,4     | 32,1      | 41,2 | 36,0 | -    | 34,9   |  |
| 96          | 6,8     | 29,6      | 40,0 | 36,0 | 29,8 | 34,4   |  |
| 97          | 6,5     | 28,4      | 39,4 | 36,0 | 29,8 | 34,1   |  |
| 98          | 5,4     | 27,2      | 38,9 | 36,0 | 29,8 | 33,9   |  |
| 102         | -       | -         | 34,4 | 36,0 | 29,8 | 32,9   |  |
| 106         | -       | -         | 29,6 | 36,0 | 29,8 | 32,1   |  |
| 110         | -       | -         | -    | 35,9 | 29,8 | 31,3   |  |
| 113         | -       | -         | -    | 32,4 | 29,8 | 30,7   |  |
| 114         | -       | -         | -    | -    | 29,8 | 30,6   |  |
| 118         | -       | -         | -    | -    | 29,8 | 30,0   |  |
| 119         | -       | -         | -    | -    | 29,8 | 29,9   |  |
| 122         | -       | -         | -    | -    | -    | 28,4   |  |
| 126         | -       | -         | -    | -    | -    | 25,6   |  |
| 130         | -       | -         | -    | -    | -    | 21,1   |  |
| 131         | -       | -         | -    | -    | -    | 20,0   |  |

|     |      |       |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|
| 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-----|------|-------|-------|-------|-------|-------|-------|

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
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**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |       |       |       |
|--------------------------------------------------|---------|---------|-------|-------|-------|-------|-------|
| 48 m + 24 m                                      |         |         |       |       |       |       |       |
| SWSL_1   SFSL_1   SFSL_3                         |         |         |       |       |       |       |       |
| 0 t 0 t-325 t                                    |         |         |       |       |       |       |       |
| m                                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   | 15°   |
| 12                                               | 222,0   | 347,0   | -     | -     | -     | -     | -     |
| 14                                               | 193,0   | 347,0*  | -     | -     | -     | -     | -     |
| 16                                               | 170,0   | 347,0*  | -     | -     | -     | 347,0 | 347,0 |
| 18                                               | 152,0   | 347,0*  | -     | -     | -     | 347,0 | 347,0 |
| 20                                               | 138,0   | 343,0*  | -     | -     | -     | 347,0 | 347,0 |
| 22                                               | 126,0   | 328,0*  | -     | -     | -     | 347,0 | 347,0 |
| 24                                               | 115,0   | 301,0*  | -     | -     | -     | 345,0 | 347,0 |
| 26                                               | 103,0   | 262,0*  | -     | -     | -     | 319,0 | 345,0 |
| 27                                               | 98,2    | 243,0*  | 305,0 | -     | -     | 306,5 | 332,5 |
| 28                                               | 93,5    | 224,0*  | 294,0 | -     | -     | 294,0 | 320,0 |
| 29                                               | 87,0*   | 206,0*  | 284,0 | -     | -     | 283,0 | 308,5 |
| 30                                               | -       | -       | 274,0 | -     | -     | 272,0 | 297,0 |
| 34                                               | -       | -       | 241,0 | -     | -     | 238,0 | 260,3 |
| 38                                               | -       | -       | 205,0 | -     | -     | 208,6 | 228,3 |
| 39                                               | -       | -       | -     | 201,0 | -     | 202,5 | 221,5 |
| 42                                               | -       | -       | -     | 186,0 | -     | 184,0 | 201,0 |
| 46                                               | -       | -       | -     | 167,0 | -     | 164,0 | 181,0 |
| 49                                               | -       | -       | -     | -     | 150,0 | 150,1 | 166,3 |
| 50                                               | -       | -       | -     | -     | 146,0 | 146,3 | 161,6 |
| 53                                               | -       | -       | -     | -     | 137,0 | 134,8 | 147,6 |
| 54                                               | -       | -       | -     | -     | -     | 131,0 | 143,0 |
| 58                                               | -       | -       | -     | -     | -     | 115,0 | 124,3 |
| 62                                               | -       | -       | -     | -     | -     | 99,0  | 109,8 |
| 66                                               | -       | -       | -     | -     | -     | 87,0  | 94,0  |
| 67                                               | -       | -       | -     | -     | -     | 83,0  | 91,5  |

| 48 m + 36 m |       |        |       |       |       |       |       |
|-------------|-------|--------|-------|-------|-------|-------|-------|
| m           | t     | t      | t     | t     | t     | t     | t     |
| 14          | 178,0 | 264,0  | -     | -     | -     | -     | -     |
| 16          | 158,0 | 261,0  | -     | -     | -     | -     | -     |
| 18          | 141,0 | 269,0* | -     | -     | -     | -     | -     |
| 20          | 128,0 | 266,0* | -     | -     | -     | 259,0 | -     |
| 22          | 117,0 | 262,0* | -     | -     | -     | 259,0 | 273,0 |
| 24          | 107,0 | 258,0* | -     | -     | -     | 258,0 | 270,0 |
| 26          | 99,0  | 250,0* | -     | -     | -     | 257,0 | 267,0 |
| 28          | 92,0  | 243,0* | -     | -     | -     | 255,0 | 266,0 |
| 30          | 84,0  | 225,0* | -     | -     | -     | 254,0 | 264,0 |
| 32          | 77,5  | 203,5* | 254,0 | -     | -     | 242,3 | 256,6 |
| 34          | 71,0  | 182,0* | 238,0 | -     | -     | 232,6 | 250,3 |
| 38          | 61,5  | 148,0* | 212,0 | -     | -     | 210,6 | 230,6 |
| 39          | 59,0  | 139,6* | 206,7 | -     | -     | 204,5 | 224,0 |
| 41          | 53,5* | 123,0* | 196,2 | -     | -     | 192,1 | 210,6 |
| 42          | -     | -      | 191,0 | -     | -     | 186,0 | 204,0 |
| 46          | -     | -      | 158,0 | 165,0 | -     | 166,0 | 182,6 |
| 49          | -     | -      | 134,0 | 153,0 | -     | 152,1 | 168,1 |
| 50          | -     | -      | -     | 149,0 | -     | 148,3 | 164,3 |
| 54          | -     | -      | -     | 136,0 | -     | 133,0 | 149,0 |
| 57          | -     | -      | -     | 128,0 | -     | 124,0 | 139,5 |
| 58          | -     | -      | -     | -     | 121,0 | 121,0 | 136,3 |
| 62          | -     | -      | -     | -     | 111,0 | 109,8 | 122,3 |
| 65          | -     | -      | -     | -     | 106,0 | 102,0 | 110,8 |
| 66          | -     | -      | -     | -     | -     | 99,5  | 107,0 |
| 70          | -     | -      | -     | -     | -     | 87,1  | 96,0  |
| 74          | -     | -      | -     | -     | -     | 77,4  | 84,6  |
| 78          | -     | -      | -     | -     | -     | 67,0  | 73,5  |
| 79          | -     | -      | -     | -     | -     | 64,5  | 71,5  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3: 11-21 m

SFSL\_3: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° · Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
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**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |      |       |       |  |  |
|--------------------------------------------------|---------|---------|-------|-------|------|-------|-------|--|--|
| 48 m + 60 m                                      |         |         |       |       |      |       |       |  |  |
| SWSL_1   SFSL_1   SFSL_3                         |         |         |       |       |      |       |       |  |  |
| 0 t 0 t-325 t                                    |         |         |       |       |      |       |       |  |  |
| m                                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   |  |  |
| t                                                | t       | t       | t     | t     | t    | t     | t     |  |  |
| 20                                               | 111,0   | 137,0   | -     | -     | -    | -     | -     |  |  |
| 22                                               | 101,0   | 136,0   | -     | -     | -    | -     | -     |  |  |
| 24                                               | 93,0    | 137,0*  | -     | -     | -    | -     | -     |  |  |
| 26                                               | 86,0    | 137,0*  | -     | -     | -    | -     | -     |  |  |
| 28                                               | 80,0    | 137,0*  | -     | -     | -    | -     | -     |  |  |
| 29                                               | 77,0    | 136,5*  | -     | -     | -    | 135,0 | 141,0 |  |  |
| 30                                               | 74,0    | 136,0*  | -     | -     | -    | 135,0 | 141,0 |  |  |
| 34                                               | 65,0    | 134,0*  | -     | -     | -    | 134,3 | 141,0 |  |  |
| 38                                               | 57,5    | 132,0*  | -     | -     | -    | 133,3 | 140,3 |  |  |
| 42                                               | 51,0    | 129,0*  | 124,0 | -     | -    | 132,0 | 139,0 |  |  |
| 46                                               | 44,7    | 123,0*  | 124,0 | -     | -    | 128,3 | 135,6 |  |  |
| 50                                               | 39,5    | 107,0*  | 124,0 | -     | -    | 125,3 | 132,0 |  |  |
| 54                                               | 35,2    | 93,5*   | 124,0 | -     | -    | 122,0 | 128,0 |  |  |
| 58                                               | 31,5    | 81,5*   | 113,0 | -     | -    | 118,6 | 123,3 |  |  |
| 59                                               | 30,7    | 78,6*   | 109,6 | 106,0 | -    | 117,8 | 122,1 |  |  |
| 62                                               | 28,5    | 70,0*   | 99,5  | 106,0 | -    | 112,0 | 118,3 |  |  |
| 64                                               | 25,9*   | 63,5*   | 93,2  | 105,0 | -    | 107,0 | 115,6 |  |  |
| 66                                               | -       | -       | 87,0  | 104,0 | -    | 102,0 | 113,0 |  |  |
| 70                                               | -       | -       | 76,0  | 96,5  | -    | 94,3  | 107,0 |  |  |
| 73                                               | -       | -       | 66,5  | 92,0  | -    | 88,7  | 101,8 |  |  |
| 74                                               | -       | -       | -     | 90,5  | 86,0 | 87,0  | 99,6  |  |  |
| 78                                               | -       | -       | -     | 80,0  | 80,5 | 80,5  | 91,0  |  |  |
| 80                                               | -       | -       | -     | 74,0  | 78,2 | 77,1  | 86,5  |  |  |
| 82                                               | -       | -       | -     | -     | 76,0 | 73,8  | 82,0  |  |  |
| 86                                               | -       | -       | -     | -     | 71,5 | 66,6  | 73,1  |  |  |
| 88                                               | -       | -       | -     | -     | 69,5 | 62,8  | 69,2  |  |  |
| 90                                               | -       | -       | -     | -     | -    | 59,0  | 66,0  |  |  |
| 94                                               | -       | -       | -     | -     | -    | 53,1  | 59,0  |  |  |
| 98                                               | -       | -       | -     | -     | -    | 47,0  | 51,6  |  |  |
| 102                                              | -       | -       | -     | -     | -    | 41,9  | 46,1  |  |  |

| 48 m + 72 m              |         |         |      |      |      |      |       |  |  |
|--------------------------|---------|---------|------|------|------|------|-------|--|--|
| SWSL_1   SFSL_1   SFSL_3 |         |         |      |      |      |      |       |  |  |
| 0 t 0 t-325 t            |         |         |      |      |      |      |       |  |  |
| m                        | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°   |  |  |
| t                        | t       | t       | t    | t    | t    | t    | t     |  |  |
| 23                       | 90,5    | 99,5    | -    | -    | -    | -    | -     |  |  |
| 24                       | 87,0    | 99,5    | -    | -    | -    | -    | -     |  |  |
| 26                       | 80,0    | 99,0    | -    | -    | -    | -    | -     |  |  |
| 28                       | 74,5    | 99,0*   | -    | -    | -    | -    | -     |  |  |
| 30                       | 69,0    | 99,0*   | -    | -    | -    | -    | -     |  |  |
| 33                       | 62,2    | 98,2*   | -    | -    | -    | 97,5 | 100,0 |  |  |
| 34                       | 60,0    | 98,0*   | -    | -    | -    | 97,3 | 100,0 |  |  |
| 38                       | 53,0    | 96,5*   | -    | -    | -    | 96,5 | 99,6  |  |  |
| 42                       | 47,1    | 95,0*   | -    | -    | -    | 95,5 | 99,0  |  |  |
| 46                       | 42,1    | 93,0*   | -    | -    | -    | 93,5 | 97,0  |  |  |
| 47                       | 41,0    | 92,5*   | 87,5 | -    | -    | 93,0 | 96,5  |  |  |
| 50                       | 37,7    | 91,0*   | 87,5 | -    | -    | 91,5 | 94,8  |  |  |
| 54                       | 33,7    | 89,5*   | 87,5 | -    | -    | 89,5 | 92,5  |  |  |
| 58                       | 30,0    | 86,5*   | 87,5 | -    | -    | 87,0 | 90,0  |  |  |
| 62                       | 26,9    | 77,0*   | 87,5 | -    | -    | 84,5 | 87,8  |  |  |
| 65                       | 24,8    | 70,2*   | 87,5 | 72,5 | -    | 83,0 | 86,0  |  |  |
| 66                       | 24,1    | 68,0*   | 87,5 | 72,5 | -    | 82,5 | 85,5  |  |  |
| 70                       | 21,5    | 60,0*   | 81,5 | 72,5 | -    | 80,0 | 83,1  |  |  |
| 74                       | 19,3    | 52,0*   | 72,5 | 72,5 | -    | 77,6 | 80,8  |  |  |
| 76                       | 17,2*   | 47,5*   | 68,5 | 72,5 | -    | 76,5 | 79,6  |  |  |
| 78                       | -       | -       | 64,5 | 72,5 | -    | 75,0 | 78,5  |  |  |
| 82                       | -       | -       | 56,5 | 72,5 | 62,5 | 73,0 | 75,1  |  |  |
| 84                       | -       | -       | 52,5 | 70,8 | 62,5 | 72,0 | 73,5  |  |  |
| 86                       | -       | -       | -    | 67,5 | 62,5 | 69,5 | 71,8  |  |  |
| 90                       | -       | -       | -    | 60,0 | 62,5 | 64,5 | 68,0  |  |  |
| 92                       | -       | -       | -    | 56,0 | 62,2 | 61,1 | 65,3  |  |  |
| 94                       | -       | -       | -    | -    | 62,0 | 57,8 | 62,6  |  |  |
| 98                       | -       | -       | -    | -    | 58,5 | 51,5 | 56,8  |  |  |
| 99                       | -       | -       | -    | -    | 58,0 | 50,1 | 55,7  |  |  |
| 102                      | -       | -       | -    | -    | -    | 47,3 | 52,5  |  |  |
| 106                      | -       | -       | -    | -    | -    | 41,8 | 46,3  |  |  |
| 110                      | -       | -       | -    | -    | -    | 36,1 | 40,0  |  |  |
| 113                      | -       | -       | -    | -    | -    | 33,5 | 36,8  |  |  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3: 11-21 m

SFSL\_3: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |  |  |
|--------------------------------------------------|---------|---------|------|------|------|------|------|--|--|
| 48 m + 84 m                                      |         |         |      |      |      |      |      |  |  |
| SWSL_1   SFSL_1   SFSL_3                         |         |         |      |      |      |      |      |  |  |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |  |  |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  |  |  |
| t                                                | t       | t       | t    | t    | t    | t    | t    |  |  |
| 25                                               | 70,5    | 72,0    | -    | -    | -    | -    | -    |  |  |
| 26                                               | 70,5    | 71,5    | -    | -    | -    | -    | -    |  |  |
| 28                                               | 69,0    | 71,0    | -    | -    | -    | -    | -    |  |  |
| 30                                               | 64,0    | 70,5*   | -    | -    | -    | -    | -    |  |  |
| 34                                               | 55,5    | 70,0*   | -    | -    | -    | -    | -    |  |  |
| 37                                               | 50,4    | 69,2*   | -    | -    | -    | 68,5 | 71,0 |  |  |
| 38                                               | 48,8    | 69,0*   | -    | -    | -    | 68,3 | 70,8 |  |  |
| 42                                               | 43,1    | 67,5*   | -    | -    | -    | 67,5 | 70,0 |  |  |
| 46                                               | 38,2    | 66,5*   | -    | -    | -    | 66,1 | 68,6 |  |  |
| 50                                               | 34,0    | 65,5*   | -    | -    | -    | 64,8 | 67,1 |  |  |
| 52                                               | 32,2    | 64,7*   | 61,0 | -    | -    | 64,1 | 66,3 |  |  |
| 54                                               | 30,4    | 64,0*   | 61,0 | -    | -    | 63,5 | 65,5 |  |  |
| 58                                               | 27,2    | 63,0*   | 61,0 | -    | -    | 61,8 | 63,8 |  |  |
| 62                                               | 24,4    | 62,0*   | 61,0 | -    | -    | 60,1 | 62,1 |  |  |
| 66                                               | 21,9    | 61,0*   | 60,5 | -    | -    | 58,5 | 60,5 |  |  |
| 70                                               | 19,7    | 60,0*   | 60,5 | -    | -    | 57,1 | 58,8 |  |  |
| 72                                               | 18,5    | 58,5*   | 60,2 | 50,0 | -    | 56,5 | 58,0 |  |  |
| 74                                               | 17,4    | 57,0*   | 60,0 | 50,0 | -    | 55,5 | 57,1 |  |  |
| 78                                               | 15,4    | 50,5*   | 60,0 | 50,0 | -    | 54,0 | 55,5 |  |  |
| 82                                               | 13,6    | 44,9*   | 59,5 | 50,0 | -    | 52,3 | 53,5 |  |  |
| 86                                               | 12,0    | 38,8*   | 54,5 | 50,0 | -    | 50,9 | 52,0 |  |  |
| 87                                               | 10,6*   | 37,1*   | 53,0 | 50,0 | -    | 50,6 | 51,5 |  |  |
| 90                                               | -       | -       | 48,8 | 50,0 | -    | 49,8 | 50,0 |  |  |
| 91                                               | -       | -       | 47,3 | 50,0 | 42,6 | 49,4 | 49,6 |  |  |
| 94                                               | -       | -       | 42,9 | 50,0 | 42,6 | 48,5 | 48,6 |  |  |
| 96                                               | -       | -       | 39,6 | 50,0 | 42,6 | 47,9 | 47,9 |  |  |
| 98                                               | -       | -       | -    | 50,0 | 42,6 | 47,3 | 47,0 |  |  |
| 102                                              | -       | -       | -    | 45,9 | 42,6 | 46,1 | 45,4 |  |  |
| 104                                              | -       | -       | -    | 42,8 | 42,6 | 44,8 | 44,4 |  |  |
| 106                                              | -       | -       | -    | -    | 42,6 | 43,6 | 43,4 |  |  |
| 110                                              | -       | -       | -    | -    | 42,6 | 40,3 | 41,4 |  |  |
| 111                                              | -       | -       | -    | -    | 42,6 | 39,4 | 40,8 |  |  |
| 114                                              | -       | -       | -    | -    | -    | 36,9 | 39,1 |  |  |
| 118                                              | -       | -       | -    | -    | -    | 31,9 | 34,8 |  |  |
| 122                                              | -       | -       | -    | -    | -    | 27,2 | 30,4 |  |  |
| 125                                              | -       | -       | -    | -    | -    | 25,1 | 27,7 |  |  |

| 48 m + 96 m              |         |         |      |      |      |      |      |  |  |
|--------------------------|---------|---------|------|------|------|------|------|--|--|
| SWSL_1   SFSL_1   SFSL_3 |         |         |      |      |      |      |      |  |  |
| 0 t 0 t-325 t            |         |         |      |      |      |      |      |  |  |
| m                        | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  |  |  |
| t                        | t       | t       | t    | t    | t    | t    | t    |  |  |
| 28                       | 51,0    | 52,0    | -    | -    | -    | -    | -    |  |  |
| 30                       | 50,5    | 51,5    | -    | -    | -    | -    | -    |  |  |
| 34                       | 49,8    | 50,5*   | -    | -    | -    | -    | -    |  |  |
| 38                       | 44,7    | 50,0*   | -    | -    | -    | -    | -    |  |  |
| 41                       | 40,5    | 49,4*   | -    | -    | -    | 49,2 | 50,0 |  |  |
| 42                       | 39,2    | 49,2*   | -    | -    | -    | 49,0 | 50,0 |  |  |
| 46                       | 34,5    | 48,3*   | -    | -    | -    | 48,2 | 48,8 |  |  |
| 50                       | 30,5    | 47,4*   | -    | -    | -    | 47,2 | 47,8 |  |  |
| 54                       | 27,0    | 46,5*   | -    | -    | -    | 46,1 | 46,8 |  |  |
| 57                       | 24,6    | 45,8*   | 42,7 | -    | -    | 45,2 | 46,0 |  |  |
| 58                       | 23,9    | 45,6*   | 42,7 | -    | -    | 44,9 | 45,7 |  |  |
| 62                       | 21,2    | 44,7*   | 42,6 | -    | -    | 43,6 | 44,6 |  |  |
| 66                       | 18,8    | 43,8*   | 42,4 | -    | -    | 42,3 | 43,5 |  |  |
| 70                       | 16,6    | 42,9*   | 42,1 | -    | -    | 41,1 | 42,3 |  |  |
| 74                       | 14,6    | 42,1*   | 41,8 | -    | -    | 39,9 | 41,0 |  |  |
| 78                       | 12,9    | 41,3*   | 41,4 | -    | -    | 38,7 | 39,6 |  |  |
| 79                       | 12,5    | 41,1*   | 41,3 | 34,1 | -    | 38,4 | 39,2 |  |  |
| 82                       | 11,3    | 40,6*   | 41,1 | 34,1 | -    | 37,5 | 38,2 |  |  |
| 86                       | 9,8     | 39,8*   | 40,8 | 34,1 | -    | 36,3 | 36,9 |  |  |
| 90                       | 8,5     | 37,7*   | 40,6 | 34,1 | -    | 35,3 | 35,5 |  |  |
| 94                       | 7,2     | 33,1*   | 40,3 | 34,1 | -    | 34,2 | 34,1 |  |  |
| 97                       | 6,3     | 29,6*   | 40,1 | 34,1 | -    | 33,4 | 33,2 |  |  |
| 98                       | 5,1*    | 28,4*   | 40,1 | 34,1 | -    | 33,2 | 32,9 |  |  |
| 99                       | 4,8*    | 27,0*   | 39,2 | 34,1 | 28,1 | 32,9 | 32,6 |  |  |
| 102                      | -       | -       | 36,5 | 34,1 | 28,1 | 32,2 | 31,8 |  |  |
| 106                      | -       | -       | 31,9 | 34,1 | 28,1 | 31,3 | 30,6 |  |  |
| 107                      | -       | -       | 30,7 | 34,1 | 28,1 | 31,1 | 30,3 |  |  |
| 110                      | -       | -       | -    | 34,1 | 28,1 | 30,5 | 29,5 |  |  |
| 114                      | -       | -       | -    | 34,1 | 28,1 | 29,8 | 28,4 |  |  |
| 115                      | -       | -       | -    | 33,4 | 28,1 | 29,6 | 28,0 |  |  |
| 118                      | -       | -       | -    | -    | 28,1 | 29,1 | 27,2 |  |  |
| 122                      | -       | -       | -    | -    | 28,1 | 28,3 | 26,4 |  |  |
| 123                      | -       | -       | -    | -    | 28,1 | 28,1 | 26,3 |  |  |
| 126                      | -       | -       | -    | -    | -    | 27,5 | 25,8 |  |  |
| 130                      | -       | -       | -    | -    | -    | 23,3 | 23,9 |  |  |
| 134                      | -       | -       | -    | -    | -    | 19,8 | 21,4 |  |  |
| 137                      | -       | -       | -    | -    | -    | 17,4 | 19,6 |  |  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3: 11-21 m

SFSL\_3: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
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**SWSL, SFSL**

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s         360°         EN13000                                                                                                                                       |       |        |       |       |       |   |       |       |   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|---|-------|-------|---|
|  54 m +  24 m                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |        |       |       |       |   |       |       |   |
|  54 m +  36 m                                                                                                                                                                                                                                                                                                                                                                                                                                                   |       |        |       |       |       |   |       |       |   |
|  0 t  SWSL_1  0 t-325 t  SFSL_1  SFSL_3                                                                                                                                                                      |       |        |       |       |       |   |       |       |   |
|  87°/85°  87°/85°  75°  65°  55°  15°  15° |       |        |       |       |       |   |       |       |   |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | t     | t      | t     | t     | t     | t | t     | t     | t |
| 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 212,0 | 332,0  | -     | -     | -     | - | -     | -     | - |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 185,0 | 323,0  | -     | -     | -     | - | -     | -     | - |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 164,0 | 337,0* | -     | -     | -     | - | -     | -     | - |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 155,0 | 333,0* | -     | -     | -     | - | 326,0 | -     | - |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 147,0 | 329,0* | -     | -     | -     | - | 326,0 | 339,0 | - |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 133,0 | 316,0* | -     | -     | -     | - | 323,0 | 335,0 | - |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 121,0 | 304,0* | -     | -     | -     | - | 320,0 | 332,0 | - |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 112,0 | 287,0* | -     | -     | -     | - | 317,0 | 329,0 | - |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 103,0 | 274,0* | -     | -     | -     | - | 315,0 | 327,0 | - |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 93,0  | 236,0* | -     | -     | -     | - | 292,0 | 318,0 | - |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 86,5* | 217,0* | 280,0 | -     | -     | - | 281,0 | 306,5 | - |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 82,5* | 198,0* | 271,0 | -     | -     | - | 270,0 | 295,0 | - |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | 238,0 | -     | -     | - | 236,0 | 258,3 | - |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | 212,0 | -     | -     | - | 206,6 | 226,3 | - |
| 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | 207,0 | -     | -     | - | 200,5 | 219,5 | - |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 183,0 | -     | - | 182,0 | 199,0 | - |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 164,0 | -     | - | 162,6 | 179,0 | - |
| 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | 156,0 | -     | - | 153,0 | 169,0 | - |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | - | 145,3 | 161,0 | - |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | 134,0 | - | 133,8 | 149,0 | - |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | 131,0 | - | 130,0 | 145,0 | - |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | 125,0 | - | 124,0 | 138,3 | - |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | - | 118,0 | 131,6 | - |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | - | 105,8 | 117,0 | - |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | - | 93,5  | 102,0 | - |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | - | 81,2  | 89,3  | - |
| 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -     | - | 76,5  | 83,0  | - |

|  0 t  65 t  125 t  165 t  205 t  245 t  285 t  325 t |                                                                                                                                                                                      |  |  |  |  |  |  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|
| SWSL_1:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  11-19 m                                                                                          |  |  |  |  |  |  |  |  |
| SWSL_3/SFSL_3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |  11-21 m                                                                                          |  |  |  |  |  |  |  |  |
| SFSL_3:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  225 t +  50 t |  |  |  |  |  |  |  |  |

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ángulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ángulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |      |       |       |   |   |
|--------------------------------------------------|---------|---------|-------|-------|------|-------|-------|---|---|
| 54 m + 48 m                                      |         |         |       |       |      |       |       |   |   |
| SWSL_1   SFSL_1   SFSL_3                         |         |         |       |       |      |       |       |   |   |
| 0 t 0 t-325 t                                    |         |         |       |       |      |       |       |   |   |
| m                                                | t       | t       | t     | t     | t    | t     | t     | t | t |
|                                                  | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   |   |   |
| 17                                               | 133,0   | 174,0   | -     | -     | -    | -     | -     | - | - |
| 18                                               | 126,0   | 173,0   | -     | -     | -    | -     | -     | - | - |
| 20                                               | 115,0   | 171,0   | -     | -     | -    | -     | -     | - | - |
| 22                                               | 105,0   | 175,0*  | -     | -     | -    | -     | -     | - | - |
| 24                                               | 96,5    | 174,0*  | -     | -     | -    | -     | -     | - | - |
| 25                                               | 92,7    | 173,0*  | -     | -     | -    | 170,0 | -     | - | - |
| 26                                               | 89,0    | 172,0*  | -     | -     | -    | 170,0 | -     | - | - |
| 27                                               | 86,0    | 171,5*  | -     | -     | -    | 170,0 | 180,0 | - | - |
| 28                                               | 83,0    | 171,0*  | -     | -     | -    | 170,0 | 180,0 | - | - |
| 30                                               | 77,0    | 168,0*  | -     | -     | -    | 170,0 | 180,0 | - | - |
| 34                                               | 67,5    | 163,0*  | -     | -     | -    | 169,0 | 179,0 | - | - |
| 38                                               | 59,5    | 158,0*  | 164,0 | -     | -    | 167,3 | 177,0 | - | - |
| 42                                               | 52,0    | 143,0*  | 163,0 | -     | -    | 166,0 | 177,0 | - | - |
| 46                                               | 45,9    | 122,0*  | 163,0 | -     | -    | 159,0 | 173,3 | - | - |
| 50                                               | 40,8    | 104,0*  | 152,0 | -     | -    | 148,3 | 164,0 | - | - |
| 51                                               | 39,7    | 99,1*   | 147,5 | -     | -    | 144,5 | 160,0 | - | - |
| 53                                               | 36,0*   | 89,5*   | 138,5 | -     | -    | 136,8 | 152,0 | - | - |
| 54                                               | -       | -       | 134,0 | -     | -    | 133,0 | 148,0 | - | - |
| 55                                               | -       | -       | 129,2 | 129,0 | -    | 130,0 | 144,8 | - | - |
| 58                                               | -       | -       | 115,0 | 121,0 | -    | 121,0 | 135,3 | - | - |
| 62                                               | -       | -       | 97,5  | 112,0 | -    | 110,0 | 124,0 | - | - |
| 66                                               | -       | -       | -     | 104,0 | -    | 100,0 | 114,0 | - | - |
| 70                                               | -       | -       | -     | 97,0  | 92,0 | 92,3  | 105,3 | - | - |
| 71                                               | -       | -       | -     | 95,0  | 90,5 | 90,4  | 103,1 | - | - |
| 74                                               | -       | -       | -     | -     | 86,0 | 85,1  | 96,8  | - | - |
| 78                                               | -       | -       | -     | -     | 80,5 | 78,5  | 88,5  | - | - |
| 80                                               | -       | -       | -     | -     | 78,5 | 75,1  | 83,5  | - | - |
| 82                                               | -       | -       | -     | -     | -    | 71,8  | 78,6  | - | - |
| 86                                               | -       | -       | -     | -     | -    | 64,1  | 70,1  | - | - |
| 90                                               | -       | -       | -     | -     | -    | 56,5  | 63,5  | - | - |
| 94                                               | -       | -       | -     | -     | -    | 49,8  | 54,7  | - | - |
| 95                                               | -       | -       | -     | -     | -    | 48,2  | 52,5  | - | - |

| 54 m + 60 m              |         |         |       |      |      |       |       |   |   |
|--------------------------|---------|---------|-------|------|------|-------|-------|---|---|
| SWSL_1   SFSL_1   SFSL_3 |         |         |       |      |      |       |       |   |   |
| 0 t 0 t-325 t            |         |         |       |      |      |       |       |   |   |
| m                        | t       | t       | t     | t    | t    | t     | t     | t | t |
|                          | 87°/85° | 87°/85° | 75°   | 65°  | 55°  | 15°   | 15°   |   |   |
| 20                       | 107,0   | 128,0   | -     | -    | -    | -     | -     | - | - |
| 22                       | 98,0    | 127,0   | -     | -    | -    | -     | -     | - | - |
| 24                       | 90,0    | 128,0*  | -     | -    | -    | -     | -     | - | - |
| 26                       | 83,0    | 128,0*  | -     | -    | -    | -     | -     | - | - |
| 28                       | 77,0    | 127,0*  | -     | -    | -    | -     | -     | - | - |
| 29                       | 74,5    | 127,0*  | -     | -    | -    | 125,0 | -     | - | - |
| 30                       | 72,0    | 127,0*  | -     | -    | -    | 125,0 | -     | - | - |
| 31                       | 69,7    | 126,5*  | -     | -    | -    | 125,0 | 132,0 | - | - |
| 34                       | 63,0    | 125,0*  | -     | -    | -    | 125,0 | 132,0 | - | - |
| 38                       | 55,5    | 122,0*  | -     | -    | -    | 124,6 | 132,0 | - | - |
| 42                       | 49,6    | 119,0*  | -     | -    | -    | 124,0 | 132,0 | - | - |
| 43                       | 48,3    | 118,2*  | 116,0 | -    | -    | 122,6 | 130,5 | - | - |
| 46                       | 44,4    | 116,0*  | 116,0 | -    | -    | 121,6 | 129,0 | - | - |
| 50                       | 39,2    | 110,0*  | 116,0 | -    | -    | 118,6 | 125,6 | - | - |
| 54                       | 34,9    | 96,5*   | 116,0 | -    | -    | 116,0 | 123,0 | - | - |
| 58                       | 31,2    | 84,0*   | 116,0 | -    | -    | 112,6 | 118,3 | - | - |
| 61                       | 28,9    | 75,0*   | 107,7 | 99,5 | -    | 109,3 | 115,0 | - | - |
| 62                       | 28,2    | 72,0*   | 105,0 | 99,5 | -    | 107,6 | 114,0 | - | - |
| 63                       | 27,5    | 68,8*   | 101,8 | 99,0 | -    | 106,0 | 113,0 | - | - |
| 65                       | 24,8*   | 62,5*   | 95,6  | 99,0 | -    | 102,6 | 111,0 | - | - |
| 66                       | -       | -       | 92,5  | 99,0 | -    | 101,0 | 110,0 | - | - |
| 70                       | -       | -       | 81,0  | 94,5 | -    | 93,0  | 104,6 | - | - |
| 74                       | -       | -       | 69,0  | 88,5 | -    | 85,8  | 98,5  | - | - |
| 78                       | -       | -       | -     | 83,0 | 78,5 | 79,0  | 91,5  | - | - |
| 82                       | -       | -       | -     | 76,5 | 73,5 | 73,3  | 84,7  | - | - |
| 83                       | -       | -       | -     | 73,5 | 72,5 | 71,9  | 83,0  | - | - |
| 86                       | -       | -       | -     | -    | 69,5 | 68,0  | 77,6  | - | - |
| 90                       | -       | -       | -     | -    | 65,5 | 63,0  | 70,0  | - | - |
| 91                       | -       | -       | -     | -    | 64,5 | 61,3  | 68,0  | - | - |
| 94                       | -       | -       | -     | -    | -    | 56,3  | 62,3  | - | - |
| 98                       | -       | -       | -     | -    | -    | 49,6  | 55,3  | - | - |
| 102                      | -       | -       | -     | -    | -    | 45,3  | 50,0  | - | - |
| 106                      | -       | -       | -     | -    | -    | 38,5  | 42,8  | - | - |
| 107                      | -       | -       | -     | -    | -    | 36,9  | 41,1  | - | - |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3: 11-21 m

SFSL\_3: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |  |  |
|--------------------------------------------------|---------|---------|------|------|------|------|------|--|--|
| 54 m + 72 m                                      |         |         |      |      |      |      |      |  |  |
| SWSL_1   SFSL_1   SFSL_3                         |         |         |      |      |      |      |      |  |  |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |  |  |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  |  |  |
| t                                                | t       | t       | t    | t    | t    | t    | t    |  |  |
| 23                                               | 87,5    | 94,0    | -    | -    | -    | -    | -    |  |  |
| 24                                               | 84,0    | 94,0    | -    | -    | -    | -    | -    |  |  |
| 26                                               | 77,5    | 93,5    | -    | -    | -    | -    | -    |  |  |
| 28                                               | 71,5    | 93,5*   | -    | -    | -    | -    | -    |  |  |
| 30                                               | 66,5    | 93,5*   | -    | -    | -    | -    | -    |  |  |
| 33                                               | 60,1    | 92,7*   | -    | -    | -    | 92,0 | 96,0 |  |  |
| 34                                               | 58,0    | 92,5*   | -    | -    | -    | 92,0 | 96,0 |  |  |
| 38                                               | 51,0    | 91,5*   | -    | -    | -    | 91,6 | 95,6 |  |  |
| 42                                               | 45,6    | 90,0*   | -    | -    | -    | 91,0 | 95,0 |  |  |
| 46                                               | 40,7    | 88,5*   | -    | -    | -    | 89,3 | 93,3 |  |  |
| 48                                               | 38,6    | 87,7*   | 82,5 | -    | -    | 88,5 | 92,5 |  |  |
| 50                                               | 36,5    | 87,0*   | 82,5 | -    | -    | 87,5 | 91,5 |  |  |
| 54                                               | 32,8    | 85,0*   | 82,5 | -    | -    | 85,5 | 89,5 |  |  |
| 58                                               | 29,7    | 83,5*   | 82,5 | -    | -    | 83,5 | 87,5 |  |  |
| 62                                               | 26,6    | 78,5*   | 82,5 | -    | -    | 81,0 | 85,0 |  |  |
| 66                                               | 23,8    | 69,5*   | 82,5 | -    | -    | 79,0 | 83,0 |  |  |
| 68                                               | 22,5    | 65,5*   | 82,5 | 68,5 | -    | 78,0 | 81,8 |  |  |
| 70                                               | 21,2    | 61,5*   | 82,5 | 68,5 | -    | 77,0 | 80,6 |  |  |
| 74                                               | 19,1    | 53,0*   | 76,0 | 68,5 | -    | 74,9 | 78,5 |  |  |
| 76                                               | 16,7*   | 49,1*   | 72,0 | 68,5 | -    | 73,7 | 77,5 |  |  |
| 78                                               | -       | -       | 68,0 | 68,5 | -    | 72,5 | 76,5 |  |  |
| 82                                               | -       | -       | 60,0 | 68,5 | -    | 70,5 | 73,8 |  |  |
| 86                                               | -       | -       | 51,5 | 68,5 | 59,0 | 67,3 | 70,6 |  |  |
| 90                                               | -       | -       | -    | 65,0 | 59,0 | 63,0 | 67,0 |  |  |
| 94                                               | -       | -       | -    | 57,5 | 59,0 | 58,6 | 63,6 |  |  |
| 95                                               | -       | -       | -    | 55,5 | 58,3 | 57,5 | 62,8 |  |  |
| 98                                               | -       | -       | -    | -    | 56,5 | 54,1 | 59,5 |  |  |
| 102                                              | -       | -       | -    | -    | 53,5 | 49,0 | 54,5 |  |  |
| 103                                              | -       | -       | -    | -    | 53,0 | 47,6 | 53,0 |  |  |
| 106                                              | -       | -       | -    | -    | -    | 43,4 | 48,5 |  |  |
| 110                                              | -       | -       | -    | -    | -    | 38,5 | 43,9 |  |  |
| 114                                              | -       | -       | -    | -    | -    | 34,5 | 38,8 |  |  |
| 118                                              | -       | -       | -    | -    | -    | 29,0 | 32,8 |  |  |
| 119                                              | -       | -       | -    | -    | -    | 27,9 | 31,6 |  |  |

| 54 m + 84 m              |         |         |      |      |      |     |     |      |      |
|--------------------------|---------|---------|------|------|------|-----|-----|------|------|
| SWSL_1   SFSL_1   SFSL_3 |         |         |      |      |      |     |     |      |      |
| 0 t 0 t-325 t            |         |         |      |      |      |     |     |      |      |
| m                        | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15° | 15° |      |      |
| t                        | t       | t       | t    | t    | t    | t   | t   |      |      |
| 26                       | 67,0    | 68,5    | -    | -    | -    | -   | -   |      |      |
| 28                       | 66,0    | 68,0    | -    | -    | -    | -   | -   |      |      |
| 30                       | 61,5    | 67,5*   | -    | -    | -    | -   | -   |      |      |
| 34                       | 53,5    | 67,0*   | -    | -    | -    | -   | -   |      |      |
| 37                       | 48,7    | 66,2*   | -    | -    | -    | -   | -   | 66,0 | 68,5 |
| 38                       | 47,1    | 66,0*   | -    | -    | -    | -   | -   | 65,8 | 68,3 |
| 42                       | 41,5    | 65,0*   | -    | -    | -    | -   | -   | 65,0 | 67,5 |
| 46                       | 36,8    | 64,0*   | -    | -    | -    | -   | -   | 64,0 | 66,1 |
| 50                       | 32,8    | 63,0*   | -    | -    | -    | -   | -   | 62,8 | 64,8 |
| 53                       | 30,1    | 62,2*   | 58,0 | -    | -    | -   | -   | 61,8 | 63,8 |
| 54                       | 29,2    | 62,0*   | 58,0 | -    | -    | -   | -   | 61,5 | 63,5 |
| 58                       | 26,2    | 61,0*   | 58,0 | -    | -    | -   | -   | 60,1 | 61,8 |
| 62                       | 23,4    | 59,5*   | 58,0 | -    | -    | -   | -   | 58,6 | 60,3 |
| 66                       | 21,0    | 58,5*   | 58,0 | -    | -    | -   | -   | 57,0 | 59,0 |
| 70                       | 18,9    | 58,0*   | 58,0 | -    | -    | -   | -   | 55,4 | 57,3 |
| 74                       | 17,0    | 57,0*   | 58,0 | -    | -    | -   | -   | 54,1 | 55,6 |
| 75                       | 16,5    | 55,7*   | 58,0 | 47,6 | -    | -   | -   | 53,7 | 55,2 |
| 78                       | 15,2    | 52,0*   | 58,0 | 47,6 | -    | -   | -   | 52,5 | 54,0 |
| 82                       | 13,4    | 46,0*   | 58,0 | 47,6 | -    | -   | -   | 51,1 | 52,5 |
| 86                       | 11,8    | 39,9*   | 57,0 | 47,6 | -    | -   | -   | 49,8 | 50,7 |
| 88                       | 9,9*    | 36,6*   | 54,0 | 47,6 | -    | -   | -   | 49,1 | 50,0 |
| 90                       | -       | -       | 51,0 | 47,6 | -    | -   | -   | 48,5 | 49,3 |
| 94                       | -       | -       | 45,5 | 47,6 | 40,1 | -   | -   | 47,2 | 47,6 |
| 97                       | -       | -       | 40,9 | 47,6 | 40,1 | -   | -   | 46,2 | 46,5 |
| 98                       | -       | -       | -    | 47,6 | 40,1 | -   | -   | 45,9 | 46,1 |
| 102                      | -       | -       | -    | 47,6 | 40,1 | -   | -   | 44,7 | 44,6 |
| 106                      | -       | -       | -    | 43,9 | 40,1 | -   | -   | 43,5 | 43,0 |
| 110                      | -       | -       | -    | -    | 40,1 | -   | -   | 41,2 | 41,4 |
| 114                      | -       | -       | -    | -    | 40,1 | -   | -   | 37,7 | 39,1 |
| 118                      | -       | -       | -    | -    | -    | -   | -   | 33,0 | 36,4 |
| 122                      | -       | -       | -    | -    | -    | -   | -   | 29,7 | 32,7 |
| 126                      | -       | -       | -    | -    | -    | -   | -   | 25,7 | 29,5 |
| 130                      | -       | -       | -    | -    | -    | -   | -   | 21,3 | 24,4 |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3: 11-21 m

SFSL\_3: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |  |  |
|--------------------------------------------------|---------|---------|------|------|------|------|------|--|--|
| 54 m + 96 m                                      |         |         |      |      |      |      |      |  |  |
| SWSL_1   SFSL_1   SFSL_3                         |         |         |      |      |      |      |      |  |  |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |  |  |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  |  |  |
| 28                                               | 49,0    | 50,0    | -    | -    | -    | -    | -    |  |  |
| 30                                               | 48,6    | 49,6    | -    | -    | -    | -    | -    |  |  |
| 34                                               | 47,7    | 48,8*   | -    | -    | -    | -    | -    |  |  |
| 38                                               | 43,0    | 48,1*   | -    | -    | -    | -    | -    |  |  |
| 41                                               | 38,9    | 47,5*   | -    | -    | -    | 47,3 | 48,4 |  |  |
| 42                                               | 37,6    | 47,3*   | -    | -    | -    | 47,1 | 48,2 |  |  |
| 46                                               | 33,1    | 46,5*   | -    | -    | -    | 46,3 | 47,3 |  |  |
| 50                                               | 29,2    | 45,7*   | -    | -    | -    | 45,5 | 46,4 |  |  |
| 54                                               | 25,8    | 44,9*   | -    | -    | -    | 44,6 | 45,5 |  |  |
| 58                                               | 22,8    | 44,0*   | 40,7 | -    | -    | 43,4 | 44,5 |  |  |
| 62                                               | 20,2    | 43,2*   | 40,7 | -    | -    | 42,3 | 43,5 |  |  |
| 66                                               | 17,8    | 42,3*   | 40,7 | -    | -    | 41,1 | 42,3 |  |  |
| 70                                               | 15,7    | 41,5*   | 40,6 | -    | -    | 40,0 | 41,1 |  |  |
| 74                                               | 13,8    | 40,7*   | 40,4 | -    | -    | 38,8 | 39,9 |  |  |
| 78                                               | 12,1    | 40,0*   | 40,1 | -    | -    | 37,7 | 38,7 |  |  |
| 82                                               | 10,6    | 39,3*   | 39,9 | 32,2 | -    | 36,5 | 37,3 |  |  |
| 86                                               | 9,1     | 38,6*   | 39,7 | 32,2 | -    | 35,5 | 35,9 |  |  |
| 90                                               | 7,9     | 37,8*   | 39,4 | 32,2 | -    | 34,4 | 34,7 |  |  |
| 94                                               | 6,7     | 34,0*   | 39,3 | 32,2 | -    | 33,4 | 33,4 |  |  |
| 98                                               | 5,7     | 29,3*   | 39,1 | 32,2 | -    | 32,4 | 32,1 |  |  |
| 99                                               | 4,2*    | 28,1*   | 38,9 | 32,2 | -    | 32,1 | 31,8 |  |  |
| 102                                              | -       | -       | 38,5 | 32,2 | -    | 31,4 | 31,0 |  |  |
| 103                                              | -       | -       | 37,3 | 32,2 | 26,3 | 31,1 | 30,7 |  |  |
| 106                                              | -       | -       | 34,0 | 32,2 | 26,3 | 30,5 | 29,9 |  |  |
| 109                                              | -       | -       | 30,4 | 32,2 | 26,3 | 29,9 | 29,1 |  |  |
| 110                                              | -       | -       | -    | 32,2 | 26,3 | 29,7 | 28,8 |  |  |
| 114                                              | -       | -       | -    | 32,2 | 26,3 | 29,0 | 27,8 |  |  |
| 118                                              | -       | -       | -    | 32,2 | 26,3 | 28,2 | 26,8 |  |  |
| 122                                              | -       | -       | -    | -    | 26,3 | 27,6 | 25,6 |  |  |
| 126                                              | -       | -       | -    | -    | 26,3 | 27,0 | 24,6 |  |  |
| 130                                              | -       | -       | -    | -    | -    | 25,1 | 23,6 |  |  |
| 134                                              | -       | -       | -    | -    | -    | 21,8 | 22,0 |  |  |
| 138                                              | -       | -       | -    | -    | -    | 17,9 | 20,1 |  |  |
| 142                                              | -       | -       | -    | -    | -    | 15,0 | 16,9 |  |  |

| 60 m + 24 m                       |         |         |       |       |       |       |       |       |     |
|-----------------------------------|---------|---------|-------|-------|-------|-------|-------|-------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |       |       |       |       |       |       |     |
| 0 t 0 t-325 t                     |         |         |       |       |       |       |       |       |     |
| m                                 | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   | 15°   | 15°   | 15° |
| 12                                | -       | 299,0   | -     | -     | -     | -     | -     | -     | -   |
| 13                                | 189,0   | 296,0   | -     | -     | -     | -     | -     | -     | -   |
| 14                                | 177,0   | 292,0   | -     | -     | -     | -     | -     | -     | -   |
| 16                                | 157,0   | 304,0*  | -     | -     | -     | -     | -     | -     | -   |
| 17                                | 149,0   | 301,0*  | -     | -     | -     | 292,0 | -     | 328,0 | -   |
| 18                                | 141,0   | 297,0*  | -     | -     | -     | 292,0 | -     | 328,0 | -   |
| 19                                | 134,0   | 293,0*  | -     | -     | -     | 292,0 | 316,0 | 328,0 | -   |
| 20                                | 128,0   | 289,0*  | -     | -     | -     | 292,0 | 314,0 | 326,0 | -   |
| 22                                | 117,0   | 280,0*  | -     | -     | -     | 290,0 | 311,0 | 326,0 | -   |
| 24                                | 108,0   | 266,0*  | -     | -     | -     | 286,0 | 309,0 | 324,0 | -   |
| 26                                | 100,0   | 255,0*  | -     | -     | -     | 284,0 | 307,0 | 321,0 | -   |
| 28                                | 93,0    | 242,0*  | -     | -     | -     | 281,0 | 306,0 | 315,0 | -   |
| 30                                | 82,0*   | 204,0*  | 268,0 | -     | -     | 269,0 | 292,0 | 292,0 | -   |
| 34                                | -       | -       | 235,0 | -     | -     | 234,3 | 255,3 | 255,3 | -   |
| 38                                | -       | -       | 210,0 | -     | -     | 205,0 | 223,6 | 223,6 | -   |
| 41                                | -       | -       | 194,0 | -     | -     | 187,0 | 203,6 | 203,6 | -   |
| 42                                | -       | -       | -     | -     | -     | 181,0 | 197,0 | 197,0 | -   |
| 44                                | -       | -       | -     | 170,0 | -     | 171,0 | 186,6 | 187,0 | -   |
| 46                                | -       | -       | -     | 162,0 | -     | 161,0 | 176,3 | 177,0 | -   |
| 50                                | -       | -       | -     | 147,0 | -     | 143,3 | 158,3 | 159,0 | -   |
| 51                                | -       | -       | -     | 143,0 | -     | 139,5 | 154,5 | 155,0 | -   |
| 54                                | -       | -       | -     | -     | -     | 128,0 | 143,0 | 143,0 | -   |
| 56                                | -       | -       | -     | -     | 122,0 | 122,3 | 136,6 | 136,6 | -   |
| 58                                | -       | -       | -     | -     | 117,0 | 116,6 | 130,3 | 130,3 | -   |
| 60                                | -       | -       | -     | -     | 113,0 | 111,0 | 124,0 | 124,0 | -   |
| 62                                | -       | -       | -     | -     | -     | 106,0 | 119,0 | 119,0 | -   |
| 66                                | -       | -       | -     | -     | -     | 96,5  | 109,0 | 109,0 | -   |
| 70                                | -       | -       | -     | -     | -     | 86,5  | 95,3  | 95,3  | -   |
| 74                                | -       | -       | -     | -     | -     | 75,5  | 84,5  | 83,5  | -   |
| 77                                | -       | -       | -     | -     | -     | 69,5  | 76,0  | 75,5  | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |       |       |       |       |     |
|--------------------------------------------------|---------|---------|-------|-------|-------|-------|-------|-------|-----|
| 60 m + 36 m                                      |         |         |       |       |       |       |       |       |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |       |       |       |       |       |       |     |
| 0 t 0 t-325 t                                    |         |         |       |       |       |       |       |       |     |
| m                                                | t       | t       | t     | t     | t     | t     | t     | t     | t   |
|                                                  | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   | 15°   | 15°   | 15° |
| 15                                               | 154,0   | 217,0   | -     | -     | -     | -     | -     | -     | -   |
| 16                                               | 145,0   | 216,0   | -     | -     | -     | -     | -     | -     | -   |
| 18                                               | 131,0   | 222,0*  | -     | -     | -     | -     | -     | -     | -   |
| 20                                               | 119,0   | 220,0*  | -     | -     | -     | -     | -     | -     | -   |
| 21                                               | 114,0   | 218,5*  | -     | -     | -     | 212,0 | -     | -     | -   |
| 22                                               | 109,0   | 217,0*  | -     | -     | -     | 212,0 | -     | -     | -   |
| 23                                               | 104,5   | 215,0*  | -     | -     | -     | 212,0 | 236,0 | 243,0 | -   |
| 24                                               | 100,0   | 213,0*  | -     | -     | -     | 212,0 | 236,0 | 243,0 | -   |
| 26                                               | 93,0    | 208,0*  | -     | -     | -     | 212,0 | 233,0 | 241,0 | -   |
| 28                                               | 86,5    | 203,0*  | -     | -     | -     | 212,0 | 233,0 | 239,0 | -   |
| 30                                               | 80,5    | 198,0*  | -     | -     | -     | 211,0 | 231,0 | 239,0 | -   |
| 34                                               | 70,5    | 186,0*  | -     | -     | -     | 208,0 | 227,0 | 236,0 | -   |
| 35                                               | 68,0    | 178,2*  | 212,0 | -     | -     | 208,0 | 227,0 | 236,0 | -   |
| 38                                               | 60,5    | 155,0*  | 207,0 | -     | -     | 199,6 | 218,0 | 224,0 | -   |
| 40                                               | 56,5    | 138,0*  | 196,5 | -     | -     | 191,3 | 209,0 | 212,0 | -   |
| 42                                               | 51,0*   | 121,0*  | 186,0 | -     | -     | 183,0 | 200,0 | 200,0 | -   |
| 46                                               | -       | -       | 168,0 | -     | -     | 163,0 | 180,0 | 179,3 | -   |
| 50                                               | -       | -       | 150,0 | -     | -     | 145,3 | 161,6 | 161,0 | -   |
| 51                                               | -       | -       | 141,5 | 141,0 | -     | 141,5 | 157,5 | 157,0 | -   |
| 52                                               | -       | -       | 133,0 | 137,0 | -     | 137,6 | 153,3 | 153,0 | -   |
| 54                                               | -       | -       | -     | 131,0 | -     | 130,0 | 145,0 | 145,0 | -   |
| 58                                               | -       | -       | -     | 121,0 | -     | 118,0 | 133,0 | 132,3 | -   |
| 62                                               | -       | -       | -     | 112,0 | -     | 107,3 | 121,6 | 121,0 | -   |
| 65                                               | -       | -       | -     | -     | 100,0 | 100,3 | 113,6 | 113,5 | -   |
| 66                                               | -       | -       | -     | -     | 98,0  | 98,0  | 111,0 | 111,0 | -   |
| 70                                               | -       | -       | -     | -     | 91,5  | 89,7  | 102,6 | 102,3 | -   |
| 71                                               | -       | -       | -     | -     | 90,0  | 87,8  | 100,5 | 100,1 | -   |
| 74                                               | -       | -       | -     | -     | -     | 82,6  | 94,1  | 93,4  | -   |
| 78                                               | -       | -       | -     | -     | -     | 76,0  | 84,5  | 84,0  | -   |
| 82                                               | -       | -       | -     | -     | -     | 67,0  | 74,1  | 73,6  | -   |
| 86                                               | -       | -       | -     | -     | -     | 58,5  | 65,8  | 65,3  | -   |
| 89                                               | -       | -       | -     | -     | -     | 54,0  | 59,5  | 59,0  | -   |
| 18                                               | 121,0   | 160,0   | -     | -     | -     | -     | -     | -     | -   |
| 20                                               | 110,0   | 158,0   | -     | -     | -     | -     | -     | -     | -   |
| 22                                               | 101,0   | 162,0*  | -     | -     | -     | -     | -     | -     | -   |
| 24                                               | 93,0    | 161,0*  | -     | -     | -     | -     | -     | -     | -   |
| 25                                               | 89,5    | 160,0*  | -     | -     | -     | 157,0 | -     | -     | -   |
| 26                                               | 86,0    | 159,0*  | -     | -     | -     | 157,0 | -     | -     | -   |
| 27                                               | 83,0    | 158,5*  | -     | -     | -     | 157,0 | 173,0 | 178,0 | -   |
| 28                                               | 80,0    | 158,0*  | -     | -     | -     | 157,0 | 173,0 | 178,0 | -   |
| 30                                               | 74,5    | 156,0*  | -     | -     | -     | 157,0 | 173,0 | 178,0 | -   |
| 34                                               | 65,5    | 151,0*  | -     | -     | -     | 157,0 | 172,0 | 177,0 | -   |
| 38                                               | 58,0    | 146,0*  | -     | -     | -     | 155,0 | 170,0 | 175,0 | -   |
| 40                                               | 54,7    | 143,0*  | 153,0 | -     | -     | 155,0 | 170,0 | 175,0 | -   |
| 42                                               | 51,5    | 140,0*  | 152,0 | -     | -     | 155,0 | 170,0 | 175,0 | -   |
| 46                                               | 45,5    | 122,0*  | 152,0 | -     | -     | 151,6 | 167,3 | 170,6 | -   |
| 50                                               | 40,4    | 104,0*  | 150,0 | -     | -     | 144,6 | 160,6 | 161,6 | -   |
| 52                                               | 38,2    | 94,2*   | 143,5 | -     | -     | 138,3 | 154,3 | 154,3 | -   |
| 54                                               | 34,5*   | 84,5*   | 137,0 | -     | -     | 132,0 | 148,0 | 147,0 | -   |
| 57                                               | -       | -       | 124,2 | 121,0 | -     | 122,5 | 138,0 | 137,5 | -   |
| 58                                               | -       | -       | 120,0 | 118,0 | -     | 119,3 | 134,6 | 134,3 | -   |
| 62                                               | -       | -       | 102,0 | 109,0 | -     | 108,3 | 122,6 | 122,6 | -   |
| 64                                               | -       | -       | 93,0  | 105,0 | -     | 103,6 | 117,3 | 117,3 | -   |
| 66                                               | -       | -       | -     | 101,0 | -     | 99,0  | 112,0 | 112,0 | -   |
| 70                                               | -       | -       | -     | 94,5  | -     | 90,6  | 104,0 | 103,6 | -   |
| 73                                               | -       | -       | -     | 90,0  | 84,5  | 85,3  | 98,1  | 97,6  | -   |
| 74                                               | -       | -       | -     | 88,5  | 83,0  | 83,6  | 96,3  | 95,8  | -   |
| 78                                               | -       | -       | -     | -     | 78,0  | 77,0  | 89,0  | 88,5  | -   |
| 82                                               | -       | -       | -     | -     | 73,5  | 71,0  | 82,2  | 81,8  | -   |
| 83                                               | -       | -       | -     | -     | 72,5  | 69,5  | 80,6  | 80,1  | -   |
| 86                                               | -       | -       | -     | -     | -     | 65,1  | 74,6  | 74,1  | -   |
| 90                                               | -       | -       | -     | -     | -     | 59,5  | 66,0  | 65,5  | -   |
| 94                                               | -       | -       | -     | -     | -     | 52,0  | 58,5  | 58,0  | -   |
| 98                                               | -       | -       | -     | -     | -     | 46,0  | 51,9  | 51,4  | -   |
| 101                                              | -       | -       | -     | -     | -     | 41,7  | 46,6  | 46,0  | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |      |      |       |       |       |   |
|--------------------------------------------------|---------|---------|-------|------|------|-------|-------|-------|---|
| 60 m + 60 m                                      |         |         |       |      |      |       |       |       |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |       |      |      |       |       |       |   |
| 0 t 0 t-325 t                                    |         |         |       |      |      |       |       |       |   |
| m                                                | 87°/85° | 87°/85° | 75°   | 65°  | 55°  | 15°   | 15°   | 15°   |   |
| t                                                | t       | t       | t     | t    | t    | t     | t     | t     | t |
| 20                                               | 103,0   | 119,0   | -     | -    | -    | -     | -     | -     | - |
| 22                                               | 94,0    | 118,0   | -     | -    | -    | -     | -     | -     | - |
| 24                                               | 86,5    | 117,0   | -     | -    | -    | -     | -     | -     | - |
| 26                                               | 80,0    | 119,0*  | -     | -    | -    | -     | -     | -     | - |
| 28                                               | 74,5    | 119,0*  | -     | -    | -    | -     | -     | -     | - |
| 30                                               | 69,5    | 118,0*  | -     | -    | -    | 117,0 | -     | 130,0 | - |
| 32                                               | 65,0    | 117,0*  | -     | -    | -    | 117,0 | 128,0 | 130,0 | - |
| 34                                               | 60,5    | 116,0*  | -     | -    | -    | 117,0 | 128,0 | 130,0 | - |
| 38                                               | 53,5    | 114,0*  | -     | -    | -    | 116,6 | 128,0 | 130,0 | - |
| 42                                               | 48,0    | 111,0*  | -     | -    | -    | 116,0 | 128,0 | 130,0 | - |
| 45                                               | 44,2    | 108,7*  | 108,0 | -    | -    | 115,0 | 126,0 | 128,5 | - |
| 46                                               | 43,0    | 108,0*  | 108,0 | -    | -    | 114,6 | 125,6 | 128,0 | - |
| 50                                               | 38,8    | 105,0*  | 108,0 | -    | -    | 113,0 | 123,6 | 125,6 | - |
| 54                                               | 34,8    | 96,0*   | 108,0 | -    | -    | 111,0 | 121,0 | 123,0 | - |
| 58                                               | 31,2    | 83,5*   | 108,0 | -    | -    | 107,3 | 117,0 | 118,3 | - |
| 62                                               | 28,1    | 71,5*   | 108,0 | -    | -    | 104,0 | 112,6 | 113,6 | - |
| 63                                               | 27,4    | 68,5*   | 104,8 | -    | -    | 103,0 | 111,5 | 112,5 | - |
| 64                                               | 25,1*   | 65,5*   | 101,7 | 93,5 | -    | 102,0 | 110,3 | 111,3 | - |
| 65                                               | 24,5*   | 62,5*   | 98,6  | 93,5 | -    | 101,0 | 109,1 | 110,1 | - |
| 66                                               | -       | -       | 95,5  | 93,5 | -    | 100,0 | 108,0 | 109,0 | - |
| 70                                               | -       | -       | 83,5  | 92,5 | -    | 92,0  | 102,6 | 103,0 | - |
| 74                                               | -       | -       | 72,0  | 86,5 | -    | 84,5  | 96,6  | 96,5  | - |
| 76                                               | -       | -       | 66,0  | 83,5 | -    | 81,0  | 93,3  | 93,0  | - |
| 78                                               | -       | -       | -     | 81,0 | -    | 77,5  | 90,0  | 89,5  | - |
| 81                                               | -       | -       | -     | 77,2 | 72,5 | 73,2  | 84,8  | 84,5  | - |
| 82                                               | -       | -       | -     | 76,0 | 71,5 | 71,8  | 83,2  | 83,0  | - |
| 86                                               | -       | -       | -     | 70,5 | 67,0 | 66,5  | 77,3  | 77,1  | - |
| 90                                               | -       | -       | -     | -    | 63,5 | 61,5  | 72,0  | 71,5  | - |
| 94                                               | -       | -       | -     | -    | 60,0 | 57,1  | 65,3  | 64,8  | - |
| 95                                               | -       | -       | -     | -    | 59,0 | 56,0  | 63,6  | 63,1  | - |
| 98                                               | -       | -       | -     | -    | -    | 52,0  | 58,5  | 58,1  | - |
| 102                                              | -       | -       | -     | -    | -    | 46,2  | 51,5  | 51,5  | - |
| 106                                              | -       | -       | -     | -    | -    | 40,5  | 46,2  | 45,6  | - |
| 110                                              | -       | -       | -     | -    | -    | 36,0  | 40,7  | 40,2  | - |
| 112                                              | -       | -       | -     | -    | -    | 33,2  | 37,6  | 37,1  | - |

| 60 m + 72 m                       |         |         |      |      |      |      |      |      |   |
|-----------------------------------|---------|---------|------|------|------|------|------|------|---|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |   |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |   |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  |   |
| t                                 | t       | t       | t    | t    | t    | t    | t    | t    | t |
| 23                                | 84,0    | 88,5    | -    | -    | -    | -    | -    | -    | - |
| 24                                | 80,5    | 88,5    | -    | -    | -    | -    | -    | -    | - |
| 26                                | 74,5    | 88,0    | -    | -    | -    | -    | -    | -    | - |
| 28                                | 69,0    | 88,5*   | -    | -    | -    | -    | -    | -    | - |
| 30                                | 64,0    | 88,0*   | -    | -    | -    | -    | -    | -    | - |
| 34                                | 56,0    | 87,5*   | -    | -    | -    | 86,5 | 94,0 | 95,0 | - |
| 38                                | 49,5    | 86,5*   | -    | -    | -    | 86,5 | 93,8 | 95,0 | - |
| 42                                | 43,9    | 85,0*   | -    | -    | -    | 86,5 | 93,5 | 95,0 | - |
| 46                                | 39,2    | 83,5*   | -    | -    | -    | 84,8 | 92,1 | 93,3 | - |
| 50                                | 35,1    | 82,0*   | 78,0 | -    | -    | 83,3 | 90,6 | 91,6 | - |
| 54                                | 31,6    | 80,0*   | 78,0 | -    | -    | 82,0 | 89,0 | 90,0 | - |
| 58                                | 28,5    | 78,5*   | 78,0 | -    | -    | 80,0 | 86,8 | 87,5 | - |
| 62                                | 25,8    | 77,0*   | 78,0 | -    | -    | 78,0 | 84,5 | 85,5 | - |
| 66                                | 23,5    | 69,5*   | 78,0 | -    | -    | 76,0 | 82,5 | 83,5 | - |
| 70                                | 21,2    | 61,5*   | 78,0 | 64,5 | -    | 74,4 | 80,5 | 81,5 | - |
| 74                                | 19,0    | 53,0*   | 78,0 | 64,5 | -    | 72,1 | 78,5 | 79,3 | - |
| 75                                | 18,5    | 50,8*   | 76,0 | 64,5 | -    | 71,7 | 78,0 | 78,7 | - |
| 77                                | 16,0*   | 46,6*   | 72,0 | 64,5 | -    | 70,9 | 77,0 | 77,5 | - |
| 78                                | -       | -       | 70,0 | 64,5 | -    | 70,5 | 76,5 | 77,0 | - |
| 82                                | -       | -       | 62,0 | 64,5 | -    | 68,3 | 74,5 | 75,5 | - |
| 86                                | -       | -       | 54,0 | 64,5 | -    | 65,6 | 71,6 | 72,5 | - |
| 87                                | -       | -       | 52,0 | 64,5 | -    | 64,7 | 70,7 | 71,5 | - |
| 90                                | -       | -       | -    | 64,5 | 55,5 | 62,0 | 68,0 | 68,5 | - |
| 94                                | -       | -       | -    | 61,5 | 55,5 | 57,6 | 64,0 | 64,1 | - |
| 97                                | -       | -       | -    | 55,5 | 54,7 | 54,5 | 61,0 | 60,9 | - |
| 98                                | -       | -       | -    | -    | 54,5 | 53,5 | 60,0 | 59,8 | - |
| 102                               | -       | -       | -    | -    | 52,0 | 49,6 | 56,0 | 55,5 | - |
| 106                               | -       | -       | -    | -    | 49,4 | 45,3 | 51,0 | 51,0 | - |
| 110                               | -       | -       | -    | -    | -    | 40,6 | 45,6 | 45,6 | - |
| 114                               | -       | -       | -    | -    | -    | 35,5 | 40,1 | 40,0 | - |
| 118                               | -       | -       | -    | -    | -    | 31,3 | 35,9 | 35,5 | - |
| 122                               | -       | -       | -    | -    | -    | 27,2 | 31,1 | 30,9 | - |
| 124                               | -       | -       | -    | -    | -    | 24,6 | 28,3 | 28,2 | - |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |       |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|-------|------|------|------|------|------|------|-----|
| 60 m + 84 m                                      |         |       |      |      |      |      |      |      |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |       |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |       |      |      |      |      |      |      |     |
| m                                                | t       | t     | t    | t    | t    | t    | t    | t    | t   |
| 87°/85°                                          | 87°/85° | 75°   | 65°  | 55°  | 15°  | 15°  | 15°  | 15°  | 15° |
| 26                                               | 63,5    | 65,0  | -    | -    | -    | -    | -    | -    | -   |
| 28                                               | 63,0    | 64,5  | -    | -    | -    | -    | -    | -    | -   |
| 30                                               | 59,0    | 64,0  | -    | -    | -    | -    | -    | -    | -   |
| 34                                               | 51,5    | 63,5* | -    | -    | -    | -    | -    | -    | -   |
| 38                                               | 45,2    | 63,0* | -    | -    | -    | 62,5 | 67,0 | 68,0 | -   |
| 42                                               | 39,9    | 62,0* | -    | -    | -    | 62,0 | 66,5 | 67,0 | -   |
| 46                                               | 35,3    | 61,5* | -    | -    | -    | 61,3 | 65,5 | 66,0 | -   |
| 50                                               | 31,4    | 60,5* | -    | -    | -    | 60,3 | 64,3 | 64,8 | -   |
| 54                                               | 28,0    | 59,5* | -    | -    | -    | 59,0 | 63,0 | 63,5 | -   |
| 55                                               | 27,2    | 59,2* | 55,0 | -    | -    | 58,7 | 62,6 | 63,1 | -   |
| 58                                               | 25,0    | 58,5* | 55,0 | -    | -    | 58,0 | 61,6 | 62,1 | -   |
| 62                                               | 22,4    | 57,0* | 55,0 | -    | -    | 56,6 | 60,3 | 60,8 | -   |
| 66                                               | 20,1    | 56,5* | 55,0 | -    | -    | 55,0 | 59,0 | 59,5 | -   |
| 70                                               | 18,0    | 55,5* | 55,0 | -    | -    | 53,7 | 57,3 | 57,8 | -   |
| 74                                               | 16,1    | 54,5* | 55,0 | -    | -    | 52,3 | 55,6 | 56,1 | -   |
| 77                                               | 14,8    | 52,2* | 55,0 | 45,1 | -    | 51,3 | 54,4 | 54,9 | -   |
| 78                                               | 14,4    | 51,5* | 55,0 | 45,1 | -    | 51,0 | 54,0 | 54,5 | -   |
| 82                                               | 12,9    | 45,4* | 55,0 | 45,1 | -    | 49,8 | 52,7 | 52,8 | -   |
| 86                                               | 11,5    | 39,4* | 55,0 | 45,1 | -    | 48,4 | 51,2 | 51,3 | -   |
| 88                                               | 9,4*    | 36,1* | 53,7 | 45,1 | -    | 47,8 | 50,4 | 50,6 | -   |
| 90                                               | -       | -     | 52,5 | 45,1 | -    | 47,2 | 49,6 | 49,9 | -   |
| 94                                               | -       | -     | 46,6 | 45,1 | -    | 45,8 | 47,9 | 48,0 | -   |
| 98                                               | -       | -     | 40,5 | 45,1 | 37,9 | 44,6 | 46,4 | 46,6 | -   |
| 99                                               | -       | -     | 38,9 | 45,1 | 37,9 | 44,3 | 46,1 | 46,2 | -   |
| 102                                              | -       | -     | -    | 45,1 | 37,9 | 43,4 | 45,0 | 45,2 | -   |
| 106                                              | -       | -     | -    | 45,1 | 37,9 | 42,2 | 43,5 | 43,7 | -   |
| 109                                              | -       | -     | -    | 42,1 | 37,9 | 41,2 | 42,5 | 42,7 | -   |
| 110                                              | -       | -     | -    | -    | 37,9 | 40,7 | 42,1 | 42,4 | -   |
| 114                                              | -       | -     | -    | -    | 37,9 | 38,9 | 40,7 | 41,0 | -   |
| 118                                              | -       | -     | -    | -    | 37,9 | 34,8 | 38,0 | 38,2 | -   |
| 122                                              | -       | -     | -    | -    | -    | 30,4 | 34,6 | 34,6 | -   |
| 126                                              | -       | -     | -    | -    | -    | 26,2 | 30,5 | 30,1 | -   |
| 130                                              | -       | -     | -    | -    | -    | 23,0 | 27,0 | 26,6 | -   |
| 134                                              | -       | -     | -    | -    | -    | 19,2 | 23,0 | 22,6 | -   |
| 135                                              | -       | -     | -    | -    | -    | 18,1 | 21,8 | 21,4 | -   |

| 60 m + 96 m                       |         |       |      |      |      |      |      |      |     |
|-----------------------------------|---------|-------|------|------|------|------|------|------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |       |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                     |         |       |      |      |      |      |      |      |     |
| m                                 | t       | t     | t    | t    | t    | t    | t    | t    | t   |
| 87°/85°                           | 87°/85° | 75°   | 65°  | 55°  | 15°  | 15°  | 15°  | 15°  | 15° |
| 29                                | 46,5    | 47,5  | -    | -    | -    | -    | -    | -    | -   |
| 30                                | 46,4    | 47,3  | -    | -    | -    | -    | -    | -    | -   |
| 34                                | 45,5    | 46,6* | -    | -    | -    | -    | -    | -    | -   |
| 38                                | 41,2    | 46,0* | -    | -    | -    | -    | -    | -    | -   |
| 42                                | 36,0    | 45,3* | -    | -    | -    | 45,1 | 47,9 | 48,3 | -   |
| 46                                | 31,7    | 44,6* | -    | -    | -    | 44,5 | 47,1 | 47,4 | -   |
| 50                                | 27,9    | 43,9* | -    | -    | -    | 43,7 | 46,3 | 46,5 | -   |
| 54                                | 24,6    | 43,1* | -    | -    | -    | 42,9 | 45,4 | 45,6 | -   |
| 58                                | 21,7    | 42,3* | -    | -    | -    | 41,9 | 44,3 | 44,5 | -   |
| 60                                | 20,4    | 41,9* | 38,7 | -    | -    | 41,4 | 43,8 | 44,1 | -   |
| 62                                | 19,1    | 41,5* | 38,7 | -    | -    | 40,8 | 43,2 | 43,5 | -   |
| 66                                | 16,9    | 40,7* | 38,7 | -    | -    | 39,8 | 42,1 | 42,5 | -   |
| 70                                | 14,8    | 39,9* | 38,7 | -    | -    | 38,7 | 40,9 | 41,3 | -   |
| 74                                | 13,0    | 39,2* | 38,7 | -    | -    | 37,6 | 39,8 | 40,1 | -   |
| 78                                | 11,3    | 38,5* | 38,6 | -    | -    | 36,5 | 38,6 | 38,9 | -   |
| 82                                | 9,8     | 37,8* | 38,4 | -    | -    | 35,5 | 37,4 | 37,6 | -   |
| 84                                | 9,1     | 37,4* | 38,3 | 30,4 | -    | 35,0 | 36,8 | 37,0 | -   |
| 86                                | 8,4     | 37,1* | 38,3 | 30,4 | -    | 34,4 | 36,1 | 36,3 | -   |
| 90                                | 7,1     | 36,4* | 38,1 | 30,4 | -    | 33,5 | 34,9 | 35,1 | -   |
| 94                                | 6,0     | 33,5* | 38,0 | 30,4 | -    | 32,5 | 33,6 | 33,8 | -   |
| 98                                | 5,0     | 28,8* | 37,9 | 30,4 | -    | 31,5 | 32,3 | 32,5 | -   |
| 100                               | -       | 26,2* | 37,7 | 30,4 | -    | 31,0 | 31,7 | 31,9 | -   |
| 102                               | -       | -     | 37,7 | 30,4 | -    | 30,6 | 31,1 | 31,3 | -   |
| 106                               | -       | -     | 34,8 | 30,4 | 24,6 | 29,7 | 30,1 | 30,3 | -   |
| 110                               | -       | -     | 30,0 | 30,4 | 24,6 | 28,9 | 29,1 | 29,3 | -   |
| 114                               | -       | -     | -    | 30,4 | 24,6 | 28,1 | 28,1 | 28,3 | -   |
| 118                               | -       | -     | -    | 30,4 | 24,6 | 27,4 | 27,1 | 27,4 | -   |
| 120                               | -       | -     | -    | 30,4 | 24,6 | 27,1 | 26,7 | 26,9 | -   |
| 122                               | -       | -     | -    | -    | 24,6 | 26,7 | 26,1 | 26,3 | -   |
| 126                               | -       | -     | -    | -    | 24,6 | 26,1 | 25,1 | 25,2 | -   |
| 129                               | -       | -     | -    | -    | 24,6 | 25,2 | 23,9 | 24,0 | -   |
| 130                               | -       | -     | -    | -    | -    | 24,9 | 23,5 | 23,6 | -   |
| 134                               | -       | -     | -    | -    | -    | 21,8 | 22,2 | 22,1 | -   |
| 138                               | -       | -     | -    | -    | -    | 19,2 | 20,9 | 20,7 | -   |
| 142                               | -       | -     | -    | -    | -    | 15,8 | 17,8 | 17,5 | -   |
| 146                               | -       | -     | -    | -    | -    | 12,1 | 15,5 | 15,0 | -   |
| 147                               | -       | -     | -    | -    | -    | 11,2 | 14,6 | 14,2 | -   |

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |       |       |       |       |     |
|--------------------------------------------------|---------|---------|-------|-------|-------|-------|-------|-------|-----|
| 66 m + 24 m                                      |         |         |       |       |       |       |       |       |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |       |       |       |       |       |       |     |
| 0 t 0 t-325 t                                    |         |         |       |       |       |       |       |       |     |
| m                                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°   | 15°   | 15°   | 15°   | 15° |
| 13                                               | 180,0   | 258,0   | -     | -     | -     | -     | -     | -     | -   |
| 14                                               | 169,0   | 255,0   | -     | -     | -     | -     | -     | -     | -   |
| 16                                               | 151,0   | 267,0*  | -     | -     | -     | -     | -     | -     | -   |
| 18                                               | 136,0   | 261,0*  | -     | -     | -     | 255,0 | -     | 299,0 | -   |
| 19                                               | 129,0   | 258,0*  | -     | -     | -     | 255,0 | 286,0 | 299,0 | -   |
| 20                                               | 123,0   | 255,0*  | -     | -     | -     | 255,0 | 286,0 | 299,0 | -   |
| 22                                               | 113,0   | 247,0*  | -     | -     | -     | 255,0 | 283,0 | 297,0 | -   |
| 24                                               | 104,0   | 240,0*  | -     | -     | -     | 252,0 | 281,0 | 297,0 | -   |
| 26                                               | 97,0    | 232,0*  | -     | -     | -     | 252,0 | 279,0 | 295,0 | -   |
| 28                                               | 90,5    | 224,0*  | -     | -     | -     | 250,0 | 277,0 | 293,0 | -   |
| 29                                               | 88,0    | 217,5*  | -     | -     | -     | 247,0 | 276,0 | 291,5 | -   |
| 30                                               | 81,0*   | 214,0*  | -     | -     | -     | 247,0 | 276,0 | 291,0 | -   |
| 31                                               | 78,0*   | 196,0*  | -     | -     | -     | 241,0 | 269,1 | 281,6 | -   |
| 32                                               | -       | -       | 248,0 | -     | -     | 236,0 | 262,3 | 272,3 | -   |
| 34                                               | -       | -       | 233,0 | -     | -     | 226,0 | 248,6 | 253,6 | -   |
| 38                                               | -       | -       | 208,0 | -     | -     | 204,0 | 222,0 | 222,0 | -   |
| 42                                               | -       | -       | 187,0 | -     | -     | 180,0 | 196,0 | 196,0 | -   |
| 46                                               | -       | -       | -     | -     | -     | 160,0 | 175,3 | 176,0 | -   |
| 47                                               | -       | -       | -     | 155,0 | -     | 155,0 | 170,1 | 171,0 | -   |
| 50                                               | -       | -       | -     | 144,0 | -     | 142,6 | 157,3 | 158,0 | -   |
| 53                                               | -       | -       | -     | 135,0 | -     | 131,6 | 145,8 | 146,0 | -   |
| 54                                               | -       | -       | -     | -     | -     | 128,0 | 142,0 | 142,0 | -   |
| 58                                               | -       | -       | -     | -     | -     | 116,0 | 129,3 | 129,3 | -   |
| 60                                               | -       | -       | -     | -     | 110,0 | 110,0 | 123,0 | 123,0 | -   |
| 62                                               | -       | -       | -     | -     | 106,0 | 105,0 | 117,6 | 117,6 | -   |
| 63                                               | -       | -       | -     | -     | 104,0 | 102,5 | 115,0 | 115,0 | -   |
| 66                                               | -       | -       | -     | -     | -     | 95,5  | 107,0 | 107,0 | -   |
| 70                                               | -       | -       | -     | -     | -     | 87,5  | 98,6  | 98,6  | -   |
| 74                                               | -       | -       | -     | -     | -     | 79,3  | 88,6  | 88,6  | -   |
| 78                                               | -       | -       | -     | -     | -     | 71,0  | 77,0  | 77,0  | -   |
| 82                                               | -       | -       | -     | -     | -     | 61,8  | 68,2  | 67,6  | -   |
| 83                                               | -       | -       | -     | -     | -     | 60,5  | 66,0  | 65,5  | -   |

| 66 m + 36 m                       |         |         |       |       |      |       |       |       |     |
|-----------------------------------|---------|---------|-------|-------|------|-------|-------|-------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |       |       |      |       |       |       |     |
| 0 t 0 t-325 t                     |         |         |       |       |      |       |       |       |     |
| m                                 | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   | 15°   | 15° |
| 15                                | 147,0   | 193,0   | -     | -     | -    | -     | -     | -     | -   |
| 16                                | 140,0   | 191,0   | -     | -     | -    | -     | -     | -     | -   |
| 18                                | 126,0   | 188,0   | -     | -     | -    | -     | -     | -     | -   |
| 20                                | 114,0   | 195,0*  | -     | -     | -    | -     | -     | -     | -   |
| 22                                | 105,0   | 192,0*  | -     | -     | -    | 188,0 | -     | -     | -   |
| 24                                | 97,0    | 189,0*  | -     | -     | -    | 188,0 | 214,0 | 222,0 | -   |
| 26                                | 90,0    | 185,0*  | -     | -     | -    | 188,0 | 214,0 | 220,0 | -   |
| 28                                | 83,5    | 181,0*  | -     | -     | -    | 188,0 | 211,0 | 220,0 | -   |
| 30                                | 78,0    | 176,0*  | -     | -     | -    | 188,0 | 211,0 | 218,0 | -   |
| 34                                | 69,0    | 167,0*  | -     | -     | -    | 186,0 | 208,0 | 216,0 | -   |
| 36                                | 64,7    | 163,0*  | 187,0 | -     | -    | 186,0 | 208,0 | 216,0 | -   |
| 38                                | 60,5    | 159,0*  | 187,0 | -     | -    | 182,6 | 203,3 | 209,3 | -   |
| 40                                | 56,5    | 143,0*  | 185,0 | -     | -    | 182,3 | 200,6 | 203,6 | -   |
| 42                                | 50,5*   | 127,0*  | 184,0 | -     | -    | 182,0 | 198,0 | 198,0 | -   |
| 43                                | 49,2*   | 118,0*  | 179,7 | -     | -    | 177,1 | 193,0 | 192,8 | -   |
| 46                                | -       | -       | 167,0 | -     | -    | 162,6 | 178,0 | 177,3 | -   |
| 50                                | -       | -       | 151,0 | -     | -    | 145,3 | 160,0 | 159,3 | -   |
| 54                                | -       | -       | 131,0 | 129,0 | -    | 130,0 | 144,0 | 144,0 | -   |
| 58                                | -       | -       | -     | 119,0 | -    | 117,3 | 131,3 | 130,6 | -   |
| 62                                | -       | -       | -     | 110,0 | -    | 106,3 | 119,6 | 119,0 | -   |
| 65                                | -       | -       | -     | 104,0 | -    | 99,3  | 111,6 | 111,5 | -   |
| 66                                | -       | -       | -     | -     | -    | 97,0  | 109,0 | 109,0 | -   |
| 68                                | -       | -       | -     | -     | 92,5 | 93,0  | 104,8 | 104,6 | -   |
| 70                                | -       | -       | -     | -     | 89,5 | 89,0  | 100,6 | 100,3 | -   |
| 74                                | -       | -       | -     | -     | 83,5 | 81,6  | 92,5  | 92,5  | -   |
| 75                                | -       | -       | -     | -     | 82,5 | 80,0  | 90,7  | 90,6  | -   |
| 78                                | -       | -       | -     | -     | -    | 75,0  | 85,5  | 85,0  | -   |
| 82                                | -       | -       | -     | -     | -    | 69,3  | 77,5  | 77,0  | -   |
| 86                                | -       | -       | -     | -     | -    | 62,6  | 69,0  | 68,5  | -   |
| 90                                | -       | -       | -     | -     | -    | 55,0  | 60,5  | 60,0  | -   |
| 94                                | -       | -       | -     | -     | -    | 49,2  | 54,0  | 53,5  | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |      |       |       |       |  |
|--------------------------------------------------|---------|---------|-------|-------|------|-------|-------|-------|--|
| 66 m + 48 m                                      |         |         |       |       |      |       |       |       |  |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |       |       |      |       |       |       |  |
| 0 t 0 t-325 t                                    |         |         |       |       |      |       |       |       |  |
| m                                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   | 15°   |  |
| t                                                | t       | t       | t     | t     | t    | t     | t     | t     |  |
| 18                                               | 117,0   | 143,0   | -     | -     | -    | -     | -     | -     |  |
| 20                                               | 106,0   | 142,0   | -     | -     | -    | -     | -     | -     |  |
| 22                                               | 97,5    | 145,0*  | -     | -     | -    | -     | -     | -     |  |
| 24                                               | 90,0    | 144,0*  | -     | -     | -    | -     | -     | -     |  |
| 26                                               | 83,0    | 143,0*  | -     | -     | -    | 140,0 | -     | 163,0 |  |
| 28                                               | 77,5    | 141,0*  | -     | -     | -    | 140,0 | 159,0 | 163,0 |  |
| 30                                               | 72,0    | 139,0*  | -     | -     | -    | 140,0 | 159,0 | 163,0 |  |
| 34                                               | 63,5    | 135,0*  | -     | -     | -    | 140,0 | 159,0 | 163,0 |  |
| 38                                               | 56,5    | 130,0*  | -     | -     | -    | 139,0 | 157,0 | 161,3 |  |
| 41                                               | 52,0    | 126,2*  | 136,0 | -     | -    | 139,0 | 157,0 | 161,0 |  |
| 42                                               | 50,5    | 125,0*  | 136,0 | -     | -    | 139,0 | 157,0 | 161,0 |  |
| 46                                               | 45,6    | 120,0*  | 136,0 | -     | -    | 136,6 | 154,0 | 157,6 |  |
| 50                                               | 40,5    | 107,0*  | 136,0 | -     | -    | 133,6 | 151,3 | 153,0 |  |
| 52                                               | 38,3    | 97,7*   | 134,5 | -     | -    | 132,3 | 148,6 | 149,0 |  |
| 54                                               | 34,3*   | 88,5*   | 134,0 | -     | -    | 131,0 | 146,0 | 145,0 |  |
| 58                                               | -       | -       | 125,0 | -     | -    | 119,0 | 133,3 | 132,3 |  |
| 60                                               | -       | -       | 118,0 | 112,0 | -    | 113,0 | 127,0 | 126,0 |  |
| 62                                               | -       | -       | 111,0 | 108,0 | -    | 108,1 | 121,6 | 120,6 |  |
| 66                                               | -       | -       | 92,0  | 100,0 | -    | 98,5  | 111,0 | 110,0 |  |
| 70                                               | -       | -       | -     | 93,0  | -    | 90,0  | 102,6 | 102,0 |  |
| 74                                               | -       | -       | -     | 87,0  | -    | 82,6  | 94,5  | 94,0  |  |
| 76                                               | -       | -       | -     | 84,5  | -    | 79,3  | 90,5  | 90,3  |  |
| 77                                               | -       | -       | -     | -     | 77,5 | 77,6  | 88,7  | 88,6  |  |
| 78                                               | -       | -       | -     | -     | 76,0 | 76,0  | 87,0  | 87,0  |  |
| 82                                               | -       | -       | -     | -     | 71,5 | 70,3  | 80,6  | 80,6  |  |
| 86                                               | -       | -       | -     | -     | 67,5 | 65,0  | 74,6  | 74,5  |  |
| 90                                               | -       | -       | -     | -     | -    | 60,0  | 69,0  | 68,5  |  |
| 94                                               | -       | -       | -     | -     | -    | 55,0  | 61,3  | 60,8  |  |
| 98                                               | -       | -       | -     | -     | -    | 49,1  | 53,9  | 53,4  |  |
| 102                                              | -       | -       | -     | -     | -    | 42,5  | 48,0  | 47,4  |  |
| 106                                              | -       | -       | -     | -     | -    | 38,0  | 41,9  | 41,5  |  |

| 66 m + 60 m                       |         |         |      |      |      |       |       |       |  |
|-----------------------------------|---------|---------|------|------|------|-------|-------|-------|--|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |       |       |       |  |
| 0 t 0 t-325 t                     |         |         |      |      |      |       |       |       |  |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°   | 15°   | 15°   |  |
| t                                 | t       | t       | t    | t    | t    | t     | t     | t     |  |
| 21                                | 94,5    | 107,0   | -    | -    | -    | -     | -     | -     |  |
| 22                                | 90,5    | 107,0   | -    | -    | -    | -     | -     | -     |  |
| 24                                | 83,5    | 106,0   | -    | -    | -    | -     | -     | -     |  |
| 26                                | 77,5    | 108,0*  | -    | -    | -    | -     | -     | -     |  |
| 28                                | 72,0    | 107,0*  | -    | -    | -    | -     | -     | -     |  |
| 30                                | 67,0    | 106,0*  | -    | -    | -    | 105,0 | 118,0 | 121,0 |  |
| 34                                | 58,5    | 105,0*  | -    | -    | -    | 105,0 | 118,0 | 121,0 |  |
| 38                                | 52,0    | 102,0*  | -    | -    | -    | 104,6 | 118,0 | 121,0 |  |
| 42                                | 46,4    | 100,0*  | -    | -    | -    | 104,0 | 118,0 | 121,0 |  |
| 46                                | 41,6    | 97,5*   | 99,0 | -    | -    | 104,0 | 117,3 | 119,6 |  |
| 50                                | 37,6    | 94,5*   | 99,0 | -    | -    | 103,0 | 115,6 | 117,6 |  |
| 54                                | 34,1    | 91,5*   | 99,0 | -    | -    | 101,0 | 113,0 | 115,0 |  |
| 58                                | 31,0    | 86,0*   | 99,0 | -    | -    | 98,3  | 110,3 | 111,6 |  |
| 62                                | 28,0    | 74,0*   | 98,5 | -    | -    | 96,0  | 107,0 | 108,0 |  |
| 63                                | 27,3    | 70,8*   | 98,3 | -    | -    | 95,5  | 106,0 | 107,0 |  |
| 66                                | 23,6*   | 61,5*   | 98,0 | 85,0 | -    | 94,0  | 103,0 | 104,0 |  |
| 70                                | -       | -       | 89,0 | 85,0 | -    | 90,6  | 98,6  | 99,6  |  |
| 74                                | -       | -       | 77,5 | 85,0 | -    | 83,6  | 93,7  | 94,1  |  |
| 77                                | -       | -       | 68,5 | 80,8 | -    | 78,6  | 89,5  | 89,0  |  |
| 78                                | -       | -       | -    | 79,5 | -    | 77,0  | 88,0  | 87,5  |  |
| 82                                | -       | -       | -    | 74,5 | -    | 71,0  | 81,6  | 81,1  |  |
| 85                                | -       | -       | -    | 71,5 | 66,0 | 66,7  | 77,0  | 76,5  |  |
| 86                                | -       | -       | -    | 70,5 | 65,0 | 65,5  | 75,6  | 75,1  |  |
| 88                                | -       | -       | -    | 68,5 | 63,1 | 63,0  | 72,8  | 72,3  |  |
| 90                                | -       | -       | -    | -    | 61,5 | 60,5  | 70,0  | 69,5  |  |
| 94                                | -       | -       | -    | -    | 58,0 | 56,0  | 65,3  | 64,8  |  |
| 98                                | -       | -       | -    | -    | 55,0 | 52,0  | 60,0  | 59,6  |  |
| 102                               | -       | -       | -    | -    | -    | 48,1  | 54,0  | 54,0  |  |
| 106                               | -       | -       | -    | -    | -    | 42,9  | 48,0  | 47,7  |  |
| 110                               | -       | -       | -    | -    | -    | 37,5  | 42,0  | 41,5  |  |
| 114                               | -       | -       | -    | -    | -    | 33,0  | 37,3  | 36,7  |  |
| 117                               | -       | -       | -    | -    | -    | 29,9  | 33,6  | 33,1  |  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |       |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|-------|------|------|------|------|------|------|-----|
| 66 m + 72 m                                      |         |       |      |      |      |      |      |      |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |       |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |       |      |      |      |      |      |      |     |
| m                                                | t       | t     | t    | t    | t    | t    | t    | t    | t   |
| 87°/85°                                          | 87°/85° | 75°   | 65°  | 55°  | 15°  | 15°  | 15°  | 15°  | 15° |
| 24                                               | 77,5    | 80,5  | -    | -    | -    | -    | -    | -    | -   |
| 26                                               | 71,5    | 80,0  | -    | -    | -    | -    | -    | -    | -   |
| 28                                               | 66,5    | 81,0* | -    | -    | -    | -    | -    | -    | -   |
| 30                                               | 62,0    | 80,5* | -    | -    | -    | -    | -    | -    | -   |
| 34                                               | 54,0    | 80,0* | -    | -    | -    | 79,0 | 88,0 | 89,5 | -   |
| 38                                               | 47,8    | 79,0* | -    | -    | -    | 79,0 | 88,0 | 89,5 | -   |
| 42                                               | 42,4    | 77,5* | -    | -    | -    | 79,0 | 88,0 | 89,5 | -   |
| 46                                               | 37,8    | 76,0* | -    | -    | -    | 78,0 | 87,0 | 88,1 | -   |
| 50                                               | 33,9    | 74,5* | -    | -    | -    | 77,0 | 85,8 | 86,8 | -   |
| 51                                               | 33,0    | 74,1* | 70,5 | -    | -    | 76,7 | 85,5 | 86,5 | -   |
| 54                                               | 30,5    | 73,0* | 70,5 | -    | -    | 76,0 | 84,5 | 85,5 | -   |
| 58                                               | 27,5    | 71,5* | 70,5 | -    | -    | 74,3 | 82,8 | 83,5 | -   |
| 62                                               | 24,8    | 69,5* | 70,5 | -    | -    | 72,6 | 80,6 | 81,6 | -   |
| 66                                               | 22,5    | 68,0* | 70,5 | -    | -    | 71,0 | 79,0 | 80,0 | -   |
| 70                                               | 20,5    | 62,5* | 70,5 | -    | -    | 69,2 | 76,8 | 77,8 | -   |
| 73                                               | 19,1    | 56,5* | 70,5 | 59,5 | -    | 68,0 | 75,5 | 76,5 | -   |
| 74                                               | 18,7    | 54,5* | 70,5 | 59,5 | -    | 67,6 | 75,1 | 76,0 | -   |
| 75                                               | 18,2    | 52,3* | 70,5 | 59,5 | -    | 67,2 | 74,7 | 75,5 | -   |
| 77                                               | 15,6*   | 48,1* | 70,5 | 59,5 | -    | 66,4 | 73,9 | 74,5 | -   |
| 78                                               | -       | -     | 70,5 | 59,5 | -    | 66,0 | 73,5 | 74,0 | -   |
| 82                                               | -       | -     | 65,5 | 59,5 | -    | 63,8 | 71,8 | 72,3 | -   |
| 86                                               | -       | -     | 57,5 | 59,5 | -    | 62,1 | 69,3 | 70,1 | -   |
| 89                                               | -       | -     | 51,0 | 59,5 | -    | 60,9 | 67,5 | 68,1 | -   |
| 90                                               | -       | -     | -    | 59,5 | -    | 60,5 | 67,0 | 67,5 | -   |
| 93                                               | -       | -     | -    | 59,5 | 51,0 | 57,5 | 64,0 | 64,2 | -   |
| 94                                               | -       | -     | -    | 59,5 | 51,0 | 56,5 | 63,0 | 63,1 | -   |
| 98                                               | -       | -     | -    | 57,5 | 51,0 | 52,0 | 59,0 | 59,0 | -   |
| 100                                              | -       | -     | -    | 54,5 | 50,4 | 50,1 | 57,0 | 57,0 | -   |
| 102                                              | -       | -     | -    | -    | 49,9 | 48,2 | 55,0 | 55,0 | -   |
| 106                                              | -       | -     | -    | -    | 47,3 | 44,5 | 51,2 | 50,9 | -   |
| 110                                              | -       | -     | -    | -    | 44,9 | 40,9 | 47,1 | 46,6 | -   |
| 114                                              | -       | -     | -    | -    | -    | 37,3 | 42,5 | 42,1 | -   |
| 118                                              | -       | -     | -    | -    | -    | 32,6 | 37,3 | 36,9 | -   |
| 122                                              | -       | -     | -    | -    | -    | 27,9 | 32,2 | 31,8 | -   |
| 126                                              | -       | -     | -    | -    | -    | 25,1 | 28,6 | 28,0 | -   |
| 129                                              | -       | -     | -    | -    | -    | 21,5 | 25,2 | 24,8 | -   |

| 66 m + 84 m                       |         |       |      |      |      |      |      |      |     |
|-----------------------------------|---------|-------|------|------|------|------|------|------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |       |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                     |         |       |      |      |      |      |      |      |     |
| m                                 | t       | t     | t    | t    | t    | t    | t    | t    | t   |
| 87°/85°                           | 87°/85° | 75°   | 65°  | 55°  | 15°  | 15°  | 15°  | 15°  | 15° |
| 26                                | 58,5    | 60,0  | -    | -    | -    | -    | -    | -    | -   |
| 28                                | 58,5    | 59,5  | -    | -    | -    | -    | -    | -    | -   |
| 30                                | 57,0    | 59,0  | -    | -    | -    | -    | -    | -    | -   |
| 34                                | 49,7    | 59,0* | -    | -    | -    | -    | -    | -    | -   |
| 38                                | 43,5    | 58,5* | -    | -    | -    | 58,0 | 64,0 | 65,0 | -   |
| 42                                | 38,3    | 58,0* | -    | -    | -    | 57,5 | 63,5 | 64,5 | -   |
| 46                                | 33,9    | 57,0* | -    | -    | -    | 57,1 | 62,8 | 63,8 | -   |
| 50                                | 30,2    | 56,0* | -    | -    | -    | 56,5 | 61,8 | 62,8 | -   |
| 54                                | 26,9    | 55,0* | -    | -    | -    | 55,5 | 60,5 | 61,5 | -   |
| 56                                | 25,4    | 54,5* | 50,5 | -    | -    | 55,0 | 60,0 | 60,8 | -   |
| 58                                | 24,0    | 54,0* | 50,5 | -    | -    | 54,5 | 59,5 | 60,1 | -   |
| 62                                | 21,4    | 53,0* | 50,5 | -    | -    | 53,3 | 58,3 | 58,8 | -   |
| 66                                | 19,1    | 52,0* | 50,5 | -    | -    | 52,0 | 57,0 | 57,5 | -   |
| 70                                | 17,1    | 51,0* | 50,5 | -    | -    | 50,6 | 55,6 | 55,8 | -   |
| 74                                | 15,3    | 50,0* | 50,5 | -    | -    | 49,4 | 53,9 | 54,4 | -   |
| 78                                | 13,6    | 49,3* | 50,5 | -    | -    | 48,4 | 52,5 | 53,0 | -   |
| 80                                | 12,8    | 47,8* | 50,5 | 41,7 | -    | 47,7 | 51,7 | 51,6 | -   |
| 82                                | 12,1    | 46,4* | 50,5 | 41,7 | -    | 47,1 | 51,1 | 50,8 | -   |
| 86                                | 10,8    | 40,4* | 50,5 | 41,7 | -    | 45,9 | 50,0 | 49,3 | -   |
| 87                                | 10,5    | 38,7* | 50,5 | 41,7 | -    | 45,5 | 49,7 | 49,0 | -   |
| 89                                | 8,3*    | 35,5* | 50,5 | 41,7 | -    | 44,9 | 49,2 | 48,3 | -   |
| 90                                | -       | -     | 50,5 | 41,7 | -    | 44,6 | 49,0 | 48,0 | -   |
| 94                                | -       | -     | 49,0 | 41,7 | -    | 43,3 | 47,8 | 46,3 | -   |
| 98                                | -       | -     | 43,1 | 41,7 | -    | 42,1 | 46,2 | 44,6 | -   |
| 100                               | -       | -     | 40,0 | 41,7 | -    | 41,6 | 45,1 | 44,0 | -   |
| 102                               | -       | -     | -    | 41,7 | 34,9 | 41,1 | 44,1 | 43,4 | -   |
| 106                               | -       | -     | -    | 41,6 | 34,8 | 40,0 | 42,0 | 42,0 | -   |
| 110                               | -       | -     | -    | 41,6 | 34,8 | 38,8 | 40,8 | 40,7 | -   |
| 111                               | -       | -     | -    | 41,6 | 34,8 | 38,5 | 40,5 | 40,4 | -   |
| 114                               | -       | -     | -    | -    | 34,8 | 37,6 | 39,7 | 39,5 | -   |
| 118                               | -       | -     | -    | -    | 34,8 | 34,6 | 38,4 | 38,1 | -   |
| 121                               | -       | -     | -    | -    | 34,8 | 32,2 | 36,9 | 36,6 | -   |
| 122                               | -       | -     | -    | -    | -    | 31,3 | 36,1 | 35,8 | -   |
| 126                               | -       | -     | -    | -    | -    | 27,6 | 32,3 | 31,9 | -   |
| 130                               | -       | -     | -    | -    | -    | 23,6 | 27,9 | 27,5 | -   |
| 134                               | -       | -     | -    | -    | -    | 20,3 | 23,5 | 23,2 | -   |
| 138                               | -       | -     | -    | -    | -    | 17,3 | 20,6 | 20,2 | -   |
| 141                               | -       | -     | -    | -    | -    | 14,2 | 17,5 | 17,2 | -   |

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|-----|
| 66 m + 96 m                                      |         |         |      |      |      |      |      |      |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 29                                               | 43,1    | 44,1    | -    | -    | -    | -    | -    | -    | -   |
| 30                                               | 43,0    | 43,9    | -    | -    | -    | -    | -    | -    | -   |
| 34                                               | 42,5    | 43,4*   | -    | -    | -    | -    | -    | -    | -   |
| 38                                               | 39,4    | 42,9*   | -    | -    | -    | -    | -    | -    | -   |
| 42                                               | 34,5    | 42,4*   | -    | -    | -    | 42,1 | 45,4 | 45,9 | -   |
| 46                                               | 30,3    | 41,7*   | -    | -    | -    | 41,6 | 44,8 | 45,1 | -   |
| 50                                               | 26,6    | 41,1*   | -    | -    | -    | 41,0 | 44,1 | 44,4 | -   |
| 54                                               | 23,4    | 40,4*   | -    | -    | -    | 40,4 | 43,4 | 43,7 | -   |
| 58                                               | 20,6    | 39,7*   | -    | -    | -    | 39,5 | 42,5 | 42,7 | -   |
| 62                                               | 18,1    | 39,0*   | 35,8 | -    | -    | 38,6 | 41,6 | 41,8 | -   |
| 66                                               | 15,9    | 38,2*   | 35,8 | -    | -    | 37,7 | 40,8 | 41,0 | -   |
| 70                                               | 13,9    | 37,5*   | 35,8 | -    | -    | 36,7 | 39,7 | 40,0 | -   |
| 74                                               | 12,1    | 36,8*   | 35,8 | -    | -    | 35,7 | 38,6 | 38,9 | -   |
| 78                                               | 10,5    | 36,1*   | 35,8 | -    | -    | 34,8 | 37,6 | 37,9 | -   |
| 82                                               | 9,1     | 35,5*   | 35,8 | -    | -    | 33,8 | 36,4 | 36,7 | -   |
| 86                                               | 7,7     | 34,9*   | 35,8 | -    | -    | 32,8 | 35,3 | 35,5 | -   |
| 87                                               | 7,4     | 34,7*   | 35,8 | 28,0 | -    | 32,6 | 35,0 | 35,2 | -   |
| 90                                               | 6,5     | 34,3*   | 35,8 | 28,0 | -    | 32,0 | 34,1 | 34,3 | -   |
| 94                                               | 5,4     | 33,7*   | 35,7 | 28,0 | -    | 31,0 | 32,9 | 33,1 | -   |
| 98                                               | 4,4     | 29,6*   | 35,7 | 28,0 | -    | 30,1 | 31,6 | 31,8 | -   |
| 101                                              | -       | 25,7*   | 35,7 | 28,0 | -    | 29,5 | 30,7 | 30,9 | -   |
| 102                                              | -       | -       | 35,7 | 28,0 | -    | 29,3 | 30,4 | 30,6 | -   |
| 106                                              | -       | -       | 35,7 | 28,0 | -    | 28,4 | 29,4 | 29,5 | -   |
| 110                                              | -       | -       | 32,1 | 28,0 | 22,5 | 27,6 | 28,4 | 28,5 | -   |
| 112                                              | -       | -       | 29,6 | 28,0 | 22,5 | 27,2 | 27,9 | 28,0 | -   |
| 114                                              | -       | -       | -    | 28,0 | 22,5 | 26,9 | 27,5 | 27,6 | -   |
| 118                                              | -       | -       | -    | 28,0 | 22,5 | 26,1 | 26,5 | 26,6 | -   |
| 122                                              | -       | -       | -    | 28,0 | 22,5 | 25,4 | 25,5 | 25,7 | -   |
| 123                                              | -       | -       | -    | 28,0 | 22,5 | 25,2 | 25,3 | 25,5 | -   |
| 126                                              | -       | -       | -    | -    | 22,5 | 24,7 | 24,6 | 24,8 | -   |
| 130                                              | -       | -       | -    | -    | 22,5 | 24,1 | 23,4 | 23,5 | -   |
| 133                                              | -       | -       | -    | -    | 22,5 | 23,0 | 22,2 | 22,3 | -   |
| 134                                              | -       | -       | -    | -    | -    | 22,3 | 21,8 | 21,9 | -   |
| 138                                              | -       | -       | -    | -    | -    | 19,4 | 20,1 | 20,1 | -   |
| 142                                              | -       | -       | -    | -    | -    | 15,9 | 18,3 | 18,2 | -   |
| 146                                              | -       | -       | -    | -    | -    | 13,7 | 15,8 | 15,6 | -   |
| 150                                              | -       | -       | -    | -    | -    | 10,5 | 13,2 | 12,9 | -   |
| 152                                              | -       | -       | -    | -    | -    | 8,7  | 11,8 | 11,5 | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t +  50 t     11-21 m     8,40 m     9.8 m/s    360°    EN13000                  |         |         |       |       |      |       |       |       |     |
|--------------------------------------------------------------------------------------|---------|---------|-------|-------|------|-------|-------|-------|-----|
| 72 m +  36 m                                                                         |         |         |       |       |      |       |       |       |     |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> |         |         |       |       |      |       |       |       |     |
| <div> <div>0 t</div> <div>0 t-325 t</div> </div>                                     |         |         |       |       |      |       |       |       |     |
| m                                                                                    | t       | t       | t     | t     | t    | t     | t     | t     | t   |
|                                                                                      | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   | 15°   | 15° |
| 16                                                                                   | 134,0   | 174,0   | -     | -     | -    | -     | -     | -     | -   |
| 18                                                                                   | 121,0   | 171,0   | -     | -     | -    | -     | -     | -     | -   |
| 20                                                                                   | 110,0   | 177,0*  | -     | -     | -    | -     | -     | -     | -   |
| 22                                                                                   | 101,0   | 174,0*  | -     | -     | -    | 170,0 | -     | -     | -   |
| 24                                                                                   | 93,5    | 171,0*  | -     | -     | -    | 170,0 | 201,0 | 212,0 | -   |
| 26                                                                                   | 86,5    | 168,0*  | -     | -     | -    | 170,0 | 201,0 | 211,0 | -   |
| 28                                                                                   | 80,5    | 164,0*  | -     | -     | -    | 170,0 | 200,0 | 210,0 | -   |
| 30                                                                                   | 75,5    | 160,0*  | -     | -     | -    | 170,0 | 199,0 | 209,0 | -   |
| 34                                                                                   | 66,5    | 152,0*  | -     | -     | -    | 169,0 | 196,0 | 207,0 | -   |
| 38                                                                                   | 59,5    | 144,0*  | 170,0 | -     | -    | 166,6 | 193,0 | 202,3 | -   |
| 41                                                                                   | 54,5    | 135,7*  | 168,5 | -     | -    | 166,1 | 193,0 | 196,8 | -   |
| 42                                                                                   | 50,5*   | 133,0*  | 168,0 | -     | -    | 166,0 | 193,0 | 195,0 | -   |
| 43                                                                                   | 48,9*   | 124,0*  | 166,0 | -     | -    | 162,8 | 188,5 | 190,0 | -   |
| 46                                                                                   | -       | -       | 163,0 | -     | -    | 156,3 | 175,0 | 175,0 | -   |
| 50                                                                                   | -       | -       | 149,0 | -     | -    | 144,0 | 158,3 | 157,3 | -   |
| 54                                                                                   | -       | -       | 136,0 | -     | -    | 128,0 | 143,0 | 142,0 | -   |
| 56                                                                                   | -       | -       | 128,0 | 121,0 | -    | 122,0 | 136,6 | 135,6 | -   |
| 58                                                                                   | -       | -       | -     | 116,0 | -    | 116,0 | 130,3 | 129,3 | -   |
| 62                                                                                   | -       | -       | -     | 108,0 | -    | 105,0 | 118,6 | 117,6 | -   |
| 66                                                                                   | -       | -       | -     | 100,0 | -    | 96,0  | 108,0 | 107,0 | -   |
| 67                                                                                   | -       | -       | -     | 98,5  | -    | 94,0  | 105,9 | 104,9 | -   |
| 70                                                                                   | -       | -       | -     | -     | -    | 88,0  | 99,6  | 98,6  | -   |
| 72                                                                                   | -       | -       | -     | -     | 84,0 | 84,0  | 95,5  | 94,5  | -   |
| 74                                                                                   | -       | -       | -     | -     | 81,0 | 80,5  | 91,8  | 90,8  | -   |
| 78                                                                                   | -       | -       | -     | -     | 76,0 | 73,5  | 84,5  | 83,5  | -   |
| 82                                                                                   | -       | -       | -     | -     | -    | 67,8  | 78,1  | 77,1  | -   |
| 86                                                                                   | -       | -       | -     | -     | -    | 62,5  | 71,3  | 70,1  | -   |
| 90                                                                                   | -       | -       | -     | -     | -    | 58,0  | 64,0  | 62,5  | -   |
| 94                                                                                   | -       | -       | -     | -     | -    | 50,6  | 55,6  | 54,5  | -   |
| 98                                                                                   | -       | -       | -     | -     | -    | 43,4  | 49,7  | 48,0  | -   |
| 99                                                                                   | -       | -       | -     | -     | -    | 42,5  | 48,4  | 46,8  | -   |

| 72 m +  48 m                                                                         |         |         |       |       |      |       |       |       |     |
|--------------------------------------------------------------------------------------|---------|---------|-------|-------|------|-------|-------|-------|-----|
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> |         |         |       |       |      |       |       |       |     |
| <div> <div>0 t</div> <div>0 t-325 t</div> </div>                                     |         |         |       |       |      |       |       |       |     |
| m                                                                                    | t       | t       | t     | t     | t    | t     | t     | t     | t   |
|                                                                                      | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   | 15°   | 15° |
| 18                                                                                   | 112,0   | 131,0   | -     | -     | -    | -     | -     | -     | -   |
| 20                                                                                   | 102,0   | 130,0   | -     | -     | -    | -     | -     | -     | -   |
| 22                                                                                   | 93,5    | 128,0   | -     | -     | -    | -     | -     | -     | -   |
| 24                                                                                   | 86,5    | 132,0*  | -     | -     | -    | -     | -     | -     | -   |
| 26                                                                                   | 80,0    | 131,0*  | -     | -     | -    | -     | -     | -     | -   |
| 27                                                                                   | 77,2    | 130,0*  | -     | -     | -    | 128,0 | 151,0 | 159,0 | -   |
| 28                                                                                   | 74,5    | 129,0*  | -     | -     | -    | 128,0 | 151,0 | 159,0 | -   |
| 30                                                                                   | 69,5    | 127,0*  | -     | -     | -    | 128,0 | 151,0 | 159,0 | -   |
| 34                                                                                   | 61,0    | 123,0*  | -     | -     | -    | 128,0 | 151,0 | 159,0 | -   |
| 38                                                                                   | 54,5    | 119,0*  | -     | -     | -    | 128,0 | 149,0 | 157,0 | -   |
| 42                                                                                   | 48,8    | 114,0*  | -     | -     | -    | 128,0 | 149,0 | 157,0 | -   |
| 43                                                                                   | 47,6    | 112,7*  | 125,0 | -     | -    | 126,6 | 147,5 | 155,3 | -   |
| 46                                                                                   | 44,1    | 109,0*  | 125,0 | -     | -    | 125,6 | 147,0 | 153,6 | -   |
| 50                                                                                   | 40,1    | 105,0*  | 124,0 | -     | -    | 123,3 | 145,3 | 149,6 | -   |
| 52                                                                                   | 37,9    | 98,2*   | 123,5 | -     | -    | 122,6 | 144,6 | 146,3 | -   |
| 54                                                                                   | 33,7*   | 91,5*   | 123,0 | -     | -    | 122,0 | 144,0 | 143,0 | -   |
| 55                                                                                   | 32,8*   | 86,0*   | 121,5 | -     | -    | 120,1 | 140,8 | 139,8 | -   |
| 58                                                                                   | -       | -       | 120,0 | -     | -    | 114,6 | 131,3 | 130,3 | -   |
| 62                                                                                   | -       | -       | 114,0 | -     | -    | 106,1 | 119,6 | 118,6 | -   |
| 63                                                                                   | -       | -       | 110,5 | 103,0 | -    | 103,7 | 117,0 | 116,0 | -   |
| 66                                                                                   | -       | -       | 100,0 | 97,5  | -    | 96,5  | 109,0 | 108,0 | -   |
| 67                                                                                   | -       | -       | 95,0  | 95,8  | -    | 94,5  | 106,8 | 105,8 | -   |
| 70                                                                                   | -       | -       | -     | 90,5  | -    | 88,5  | 100,3 | 99,3  | -   |
| 74                                                                                   | -       | -       | -     | 85,0  | -    | 81,1  | 92,2  | 91,3  | -   |
| 78                                                                                   | -       | -       | -     | 79,5  | -    | 74,5  | 85,0  | 84,0  | -   |
| 79                                                                                   | -       | -       | -     | 78,5  | -    | 73,0  | 83,4  | 82,4  | -   |
| 80                                                                                   | -       | -       | -     | -     | 71,0 | 71,5  | 81,8  | 80,8  | -   |
| 82                                                                                   | -       | -       | -     | -     | 68,5 | 68,5  | 78,6  | 77,6  | -   |
| 86                                                                                   | -       | -       | -     | -     | 65,0 | 63,1  | 72,8  | 71,8  | -   |
| 90                                                                                   | -       | -       | -     | -     | 61,5 | 58,5  | 67,5  | 66,5  | -   |
| 94                                                                                   | -       | -       | -     | -     | -    | 53,8  | 62,1  | 61,1  | -   |
| 98                                                                                   | -       | -       | -     | -     | -    | 49,2  | 56,3  | 55,1  | -   |
| 102                                                                                  | -       | -       | -     | -     | -    | 44,7  | 49,6  | 48,5  | -   |
| 106                                                                                  | -       | -       | -     | -     | -    | 38,5  | 43,2  | 41,8  | -   |
| 110                                                                                  | -       | -       | -     | -     | -    | 33,5  | 38,2  | 37,0  | -   |
| 111                                                                                  | -       | -       | -     | -     | -    | 32,7  | 36,9  | 35,8  | -   |

0 t    65 t    125 t    165 t    205 t    245 t    285 t    325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |       |       |     |
|--------------------------------------------------|---------|---------|------|------|------|------|-------|-------|-----|
| 72 m + 60 m                                      |         |         |      |      |      |      |       |       |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |       |       |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |       |       |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°   | 15°   | 15° |
| t                                                | t       | t       | t    | t    | t    | t    | t     | t     | t   |
| 21                                               | 91,0    | 99,5    | -    | -    | -    | -    | -     | -     | -   |
| 22                                               | 87,0    | 99,0    | -    | -    | -    | -    | -     | -     | -   |
| 24                                               | 80,5    | 98,0    | -    | -    | -    | -    | -     | -     | -   |
| 26                                               | 74,5    | 100,0*  | -    | -    | -    | -    | -     | -     | -   |
| 28                                               | 69,0    | 99,5*   | -    | -    | -    | -    | -     | -     | -   |
| 30                                               | 64,5    | 98,5*   | -    | -    | -    | -    | -     | -     | -   |
| 31                                               | 62,5    | 98,1*   | -    | -    | -    | 97,0 | -     | 118,0 | -   |
| 33                                               | 58,5    | 97,3*   | -    | -    | -    | 97,0 | 114,0 | 118,0 | -   |
| 34                                               | 56,5    | 97,0*   | -    | -    | -    | 97,0 | 114,0 | 118,0 | -   |
| 38                                               | 50,0    | 94,5*   | -    | -    | -    | 96,8 | 114,0 | 118,0 | -   |
| 42                                               | 44,7    | 92,0*   | -    | -    | -    | 96,5 | 114,0 | 118,0 | -   |
| 46                                               | 40,1    | 89,5*   | -    | -    | -    | 96,1 | 113,0 | 117,3 | -   |
| 48                                               | 38,1    | 88,0*   | 91,5 | -    | -    | 96,0 | 113,0 | 117,0 | -   |
| 50                                               | 36,1    | 86,5*   | 91,5 | -    | -    | 94,8 | 112,0 | 115,3 | -   |
| 54                                               | 32,8    | 83,5*   | 91,5 | -    | -    | 93,5 | 110,0 | 113,0 | -   |
| 58                                               | 29,8    | 81,0*   | 91,5 | -    | -    | 91,8 | 108,0 | 111,0 | -   |
| 62                                               | 27,3    | 75,5*   | 91,5 | -    | -    | 89,6 | 104,6 | 107,6 | -   |
| 64                                               | 26,2    | 69,5*   | 91,0 | -    | -    | 88,8 | 102,6 | 105,3 | -   |
| 66                                               | 22,7*   | 63,5*   | 91,0 | -    | -    | 88,0 | 101,0 | 103,0 | -   |
| 69                                               | -       | -       | 89,8 | 79,0 | -    | 86,0 | 97,7  | 99,2  | -   |
| 70                                               | -       | -       | 89,5 | 79,0 | -    | 85,5 | 96,6  | 98,0  | -   |
| 74                                               | -       | -       | 82,0 | 78,5 | -    | 81,5 | 92,5  | 92,5  | -   |
| 78                                               | -       | -       | 70,0 | 77,5 | -    | 75,5 | 86,0  | 85,0  | -   |
| 79                                               | -       | -       | 67,0 | 76,2 | -    | 74,0 | 84,4  | 83,4  | -   |
| 82                                               | -       | -       | -    | 72,5 | -    | 69,5 | 79,6  | 78,6  | -   |
| 86                                               | -       | -       | -    | 68,5 | -    | 64,0 | 73,6  | 72,6  | -   |
| 89                                               | -       | -       | -    | 65,5 | 60,0 | 60,2 | 69,4  | 68,4  | -   |
| 90                                               | -       | -       | -    | 64,5 | 59,0 | 59,0 | 68,0  | 67,0  | -   |
| 91                                               | -       | -       | -    | 64,0 | 58,1 | 57,8 | 66,8  | 65,8  | -   |
| 94                                               | -       | -       | -    | -    | 55,5 | 54,3 | 63,3  | 62,3  | -   |
| 98                                               | -       | -       | -    | -    | 52,5 | 50,1 | 58,6  | 57,5  | -   |
| 101                                              | -       | -       | -    | -    | 50,5 | 47,2 | 55,5  | 54,1  | -   |
| 102                                              | -       | -       | -    | -    | -    | 46,3 | 54,5  | 53,0  | -   |
| 106                                              | -       | -       | -    | -    | -    | 42,6 | 49,2  | 48,0  | -   |
| 110                                              | -       | -       | -    | -    | -    | 38,6 | 43,8  | 42,8  | -   |
| 114                                              | -       | -       | -    | -    | -    | 33,7 | 38,2  | 37,2  | -   |
| 118                                              | -       | -       | -    | -    | -    | 28,6 | 33,1  | 31,7  | -   |
| 122                                              | -       | -       | -    | -    | -    | 25,1 | 28,9  | 27,8  | -   |
| 123                                              | -       | -       | -    | -    | -    | 24,2 | 27,7  | 26,7  | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|-----|
| 72 m + 84 m                                      |         |         |      |      |      |      |      |      |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 27                                               | 54,5    | 56,0    | -    | -    | -    | -    | -    | -    | -   |
| 28                                               | 54,5    | 55,5    | -    | -    | -    | -    | -    | -    | -   |
| 30                                               | 53,5    | 55,5    | -    | -    | -    | -    | -    | -    | -   |
| 34                                               | 47,6    | 55,0*   | -    | -    | -    | -    | -    | -    | -   |
| 38                                               | 41,6    | 54,5*   | -    | -    | -    | -    | -    | -    | -   |
| 39                                               | 40,3    | 54,3*   | -    | -    | -    | 54,0 | 62,5 | 64,0 | -   |
| 42                                               | 36,7    | 54,0*   | -    | -    | -    | 54,0 | 62,0 | 64,0 | -   |
| 46                                               | 32,4    | 53,0*   | -    | -    | -    | 53,6 | 61,6 | 63,3 | -   |
| 50                                               | 28,7    | 52,5*   | -    | -    | -    | 53,0 | 61,0 | 62,5 | -   |
| 54                                               | 25,6    | 51,5*   | -    | -    | -    | 52,0 | 60,0 | 61,5 | -   |
| 58                                               | 22,8    | 50,5*   | 47,6 | -    | -    | 51,3 | 58,6 | 60,1 | -   |
| 62                                               | 20,3    | 49,6*   | 47,6 | -    | -    | 50,4 | 57,3 | 58,8 | -   |
| 66                                               | 18,1    | 48,6*   | 47,6 | -    | -    | 49,4 | 56,0 | 57,5 | -   |
| 70                                               | 16,1    | 47,5*   | 47,6 | -    | -    | 48,2 | 54,6 | 56,1 | -   |
| 74                                               | 14,3    | 46,4*   | 47,6 | -    | -    | 47,1 | 53,5 | 55,0 | -   |
| 78                                               | 12,7    | 45,4*   | 47,6 | -    | -    | 46,0 | 52,0 | 53,5 | -   |
| 82                                               | 11,3    | 44,4*   | 47,6 | 38,9 | -    | 44,9 | 51,0 | 51,8 | -   |
| 86                                               | 10,0    | 41,8*   | 47,6 | 38,9 | -    | 43,7 | 49,8 | 50,4 | -   |
| 87                                               | 9,7     | 40,2*   | 47,6 | 38,9 | -    | 43,4 | 49,5 | 50,1 | -   |
| 89                                               | 7,3*    | 37,0*   | 47,6 | 38,9 | -    | 42,8 | 48,9 | 49,5 | -   |
| 90                                               | -       | -       | 47,6 | 38,9 | -    | 42,6 | 48,6 | 49,3 | -   |
| 94                                               | -       | -       | 47,6 | 38,9 | -    | 41,5 | 47,4 | 47,9 | -   |
| 98                                               | -       | -       | 46,1 | 38,9 | -    | 40,4 | 46,1 | 46,4 | -   |
| 102                                              | -       | -       | 39,8 | 38,9 | -    | 39,4 | 44,4 | 44,5 | -   |
| 105                                              | -       | -       | -    | 38,9 | 32,6 | 38,5 | 42,9 | 42,9 | -   |
| 106                                              | -       | -       | -    | 38,9 | 32,6 | 38,2 | 42,4 | 42,3 | -   |
| 110                                              | -       | -       | -    | 38,9 | 32,6 | 37,3 | 40,5 | 40,2 | -   |
| 114                                              | -       | -       | -    | 38,8 | 32,6 | 36,2 | 38,6 | 38,1 | -   |
| 118                                              | -       | -       | -    | -    | 32,5 | 33,2 | 36,6 | 35,9 | -   |
| 122                                              | -       | -       | -    | -    | 32,5 | 30,4 | 34,3 | 33,4 | -   |
| 125                                              | -       | -       | -    | -    | 32,5 | 28,4 | 32,3 | 31,1 | -   |
| 126                                              | -       | -       | -    | -    | -    | 27,7 | 31,7 | 30,4 | -   |
| 130                                              | -       | -       | -    | -    | -    | 24,3 | 28,4 | 27,4 | -   |
| 134                                              | -       | -       | -    | -    | -    | 20,8 | 24,7 | 23,8 | -   |
| 138                                              | -       | -       | -    | -    | -    | 17,1 | 20,7 | 19,8 | -   |
| 142                                              | -       | -       | -    | -    | -    | 14,2 | 16,6 | 15,7 | -   |
| 146                                              | -       | -       | -    | -    | -    | 11,1 | 14,1 | 13,1 | -   |

| 72 m + 96 m                       |         |         |      |      |      |      |      |      |     |
|-----------------------------------|---------|---------|------|------|------|------|------|------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |     |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 29                                | 40,5    | 41,4    | -    | -    | -    | -    | -    | -    | -   |
| 30                                | 40,4    | 41,3    | -    | -    | -    | -    | -    | -    | -   |
| 34                                | 40,0    | 40,7    | -    | -    | -    | -    | -    | -    | -   |
| 38                                | 37,6    | 40,4*   | -    | -    | -    | -    | -    | -    | -   |
| 42                                | 32,8    | 40,1*   | -    | -    | -    | -    | -    | -    | -   |
| 43                                | 31,7    | 39,9*   | -    | -    | -    | 39,7 | 44,6 | 45,9 | -   |
| 46                                | 28,7    | 39,5*   | -    | -    | -    | 39,3 | 44,2 | 45,6 | -   |
| 50                                | 25,2    | 38,9*   | -    | -    | -    | 38,8 | 43,7 | 44,9 | -   |
| 54                                | 22,1    | 38,3*   | -    | -    | -    | 38,4 | 43,2 | 44,3 | -   |
| 58                                | 19,4    | 37,6*   | -    | -    | -    | 37,6 | 42,2 | 43,3 | -   |
| 62                                | 17,0    | 36,9*   | -    | -    | -    | 36,8 | 41,3 | 42,3 | -   |
| 63                                | 16,4    | 36,7*   | 33,4 | -    | -    | 36,6 | 41,1 | 42,0 | -   |
| 66                                | 14,9    | 36,2*   | 33,4 | -    | -    | 36,1 | 40,4 | 41,3 | -   |
| 70                                | 13,0    | 35,5*   | 33,4 | -    | -    | 35,1 | 39,4 | 40,2 | -   |
| 74                                | 11,2    | 34,9*   | 33,4 | -    | -    | 34,2 | 38,4 | 39,2 | -   |
| 78                                | 9,6     | 34,2*   | 33,4 | -    | -    | 33,3 | 37,4 | 38,1 | -   |
| 82                                | 8,2     | 33,5*   | 33,4 | -    | -    | 32,4 | 36,4 | 37,0 | -   |
| 86                                | 6,9     | 32,9*   | 33,4 | -    | -    | 31,5 | 35,2 | 35,9 | -   |
| 89                                | 6,0     | 32,4*   | 33,4 | 26,1 | -    | 30,9 | 34,4 | 35,0 | -   |
| 90                                | 5,7     | 32,3*   | 33,4 | 26,1 | -    | 30,7 | 34,1 | 34,7 | -   |
| 94                                | 4,6     | 31,8*   | 33,4 | 26,1 | -    | 29,8 | 32,9 | 33,5 | -   |
| 96                                | 4,1     | 31,0*   | 33,4 | 26,1 | -    | 29,4 | 32,4 | 33,0 | -   |
| 98                                | -       | 30,3*   | 33,4 | 26,1 | -    | 29,0 | 31,8 | 32,4 | -   |
| 99                                | -       | 29,0*   | 33,4 | 26,1 | -    | 28,8 | 31,5 | 32,1 | -   |
| 101                               | -       | 26,6*   | 33,4 | 26,1 | -    | 28,4 | 30,9 | 31,5 | -   |
| 102                               | -       | -       | 33,4 | 26,1 | -    | 28,2 | 30,7 | 31,2 | -   |
| 106                               | -       | -       | 33,4 | 26,1 | -    | 27,3 | 29,5 | 30,0 | -   |
| 110                               | -       | -       | 33,4 | 26,1 | -    | 26,5 | 28,5 | 28,9 | -   |
| 113                               | -       | -       | 30,4 | 26,1 | -    | 25,9 | 27,9 | 28,3 | -   |
| 114                               | -       | -       | -    | 26,1 | 20,9 | 25,8 | 27,6 | 28,1 | -   |
| 118                               | -       | -       | -    | 26,1 | 20,9 | 25,0 | 26,7 | 27,1 | -   |
| 122                               | -       | -       | -    | 26,1 | 20,9 | 24,2 | 25,8 | 26,2 | -   |
| 125                               | -       | -       | -    | 26,1 | 20,8 | 23,7 | 25,2 | 25,6 | -   |
| 126                               | -       | -       | -    | -    | 20,8 | 23,6 | 25,0 | 25,4 | -   |
| 130                               | -       | -       | -    | -    | 20,8 | 23,0 | 24,1 | 24,5 | -   |
| 134                               | -       | -       | -    | -    | 20,8 | 21,7 | 22,8 | 23,1 | -   |
| 136                               | -       | -       | -    | -    | 20,8 | 20,8 | 21,9 | 22,1 | -   |
| 138                               | -       | -       | -    | -    | -    | 19,6 | 21,0 | 21,2 | -   |
| 142                               | -       | -       | -    | -    | -    | 16,3 | 18,8 | 18,8 | -   |
| 146                               | -       | -       | -    | -    | -    | 13,0 | 16,2 | 15,9 | -   |
| 150                               | -       | -       | -    | -    | -    | 10,5 | 13,4 | 12,7 | -   |
| 154                               | -       | -       | -    | -    | -    | 7,8  | 9,8  | 9,0  | -   |
| 157                               | -       | -       | -    | -    | -    | 5,5  | 8,4  | 7,2  | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s         360°         EN13000 |       |        |       |       |      |       |       |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|------|-------|-------|-------|---|
|  78 m +  24 m                                                                                                                                                                                                                                                                                                             |       |        |       |       |      |       |       |       |   |
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div>                                                                                                                                                                                                          |       |        |       |       |      |       |       |       |   |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | t     | t      | t     | t     | t    | t     | t     | t     | t |
| 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 165,0 | 195,0  | -     | -     | -    | -     | -     | -     | - |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 155,0 | 192,0  | -     | -     | -    | -     | -     | -     | - |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 139,0 | 187,0  | -     | -     | -    | -     | -     | -     | - |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 126,0 | 194,0* | -     | -     | -    | -     | -     | -     | - |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 120,0 | 192,0* | -     | -     | -    | 190,0 | -     | 256,0 | - |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 114,0 | 189,0* | -     | -     | -    | 190,0 | -     | 256,0 | - |
| 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 109,5 | 186,0* | -     | -     | -    | 190,0 | 242,0 | 256,0 | - |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 105,0 | 183,0* | -     | -     | -    | 190,0 | 242,0 | 256,0 | - |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 97,5  | 177,0* | -     | -     | -    | 190,0 | 239,0 | 254,0 | - |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 90,5  | 171,0* | -     | -     | -    | 189,0 | 239,0 | 254,0 | - |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 84,5  | 165,0* | -     | -     | -    | 188,0 | 237,0 | 253,0 | - |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 82,0  | 162,5* | -     | -     | -    | 187,0 | 233,0 | 252,0 | - |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 74,5* | 160,0* | -     | -     | -    | 186,0 | 233,0 | 252,0 | - |
| 32                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 70,0* | 155,0* | -     | -     | -    | 184,6 | 230,0 | 243,6 | - |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 184,0 | -     | -    | 183,3 | 230,0 | 237,3 | - |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 178,0 | -     | -    | 178,0 | 217,3 | 217,6 | - |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 169,0 | -     | -    | 174,0 | 192,0 | 191,0 | - |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 157,0 | -     | -    | 157,3 | 172,0 | 171,0 | - |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 141,3 | 154,3 | 153,3 | - |
| 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | 133,0 | -    | 133,6 | 146,6 | 145,6 | - |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | 127,0 | -    | 126,0 | 139,0 | 138,0 | - |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | 117,0 | -    | 114,0 | 126,3 | 125,3 | - |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 102,7 | 115,0 | 113,6 | - |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 93,5  | 105,0 | 103,0 | - |
| 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | 91,5 | 91,5  | 102,0 | 101,0 | - |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | 87,0 | 85,5  | 96,0  | 95,0  | - |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 78,1  | 88,3  | 87,3  | - |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 71,5  | 81,0  | 80,0  | - |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 65,8  | 74,0  | 72,6  | - |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 59,3  | 65,8  | 64,4  | - |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 52,0  | 56,5  | 55,5  | - |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -     | -    | 46,5  | 52,0  | 50,5  | - |

|  78 m +  36 m                                                                                                    |       |        |       |       |      |   |       |       |       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|-------|------|---|-------|-------|-------|
| <div> <div>SWSL_1</div> <div>SFSL_1</div> <div>SFSL_3</div> <div>SFSL_4</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |       |        |       |       |      |   |       |       |       |
| m                                                                                                                                                                                                                                                                                  | t     | t      | t     | t     | t    | t | t     | t     | t     |
| 16                                                                                                                                                                                                                                                                                 | 128,0 | 146,0  | -     | -     | -    | - | -     | -     | -     |
| 18                                                                                                                                                                                                                                                                                 | 116,0 | 143,0  | -     | -     | -    | - | -     | -     | -     |
| 20                                                                                                                                                                                                                                                                                 | 106,0 | 148,0* | -     | -     | -    | - | -     | -     | -     |
| 22                                                                                                                                                                                                                                                                                 | 97,5  | 145,0* | -     | -     | -    | - | -     | -     | -     |
| 23                                                                                                                                                                                                                                                                                 | 93,7  | 143,5* | -     | -     | -    | - | 142,0 | -     | -     |
| 24                                                                                                                                                                                                                                                                                 | 90,0  | 142,0* | -     | -     | -    | - | 142,0 | -     | -     |
| 25                                                                                                                                                                                                                                                                                 | 86,7  | 140,5* | -     | -     | -    | - | 142,0 | 183,0 | 194,0 |
| 26                                                                                                                                                                                                                                                                                 | 83,5  | 139,0* | -     | -     | -    | - | 142,0 | 183,0 | 194,0 |
| 28                                                                                                                                                                                                                                                                                 | 78,0  | 135,0* | -     | -     | -    | - | 142,0 | 183,0 | 192,0 |
| 30                                                                                                                                                                                                                                                                                 | 73,0  | 132,0* | -     | -     | -    | - | 142,0 | 182,0 | 192,0 |
| 34                                                                                                                                                                                                                                                                                 | 64,5  | 124,0* | -     | -     | -    | - | 140,0 | 179,0 | 190,0 |
| 38                                                                                                                                                                                                                                                                                 | 57,5  | 117,0* | -     | -     | -    | - | 138,3 | 176,0 | 188,0 |
| 39                                                                                                                                                                                                                                                                                 | 56,1  | 115,5* | 138,0 | -     | -    | - | 138,0 | 176,0 | 188,0 |
| 41                                                                                                                                                                                                                                                                                 | 53,5  | 112,5* | 138,0 | -     | -    | - | 137,3 | 176,0 | 188,0 |
| 42                                                                                                                                                                                                                                                                                 | 48,6* | 111,0* | 137,0 | -     | -    | - | 137,0 | 176,0 | 188,0 |
| 44                                                                                                                                                                                                                                                                                 | 46,4* | 108,0* | 135,0 | -     | -    | - | 134,6 | 171,3 | 179,6 |
| 46                                                                                                                                                                                                                                                                                 | -     | -      | 133,0 | -     | -    | - | 133,3 | 167,6 | 171,3 |
| 50                                                                                                                                                                                                                                                                                 | -     | -      | 127,0 | -     | -    | - | 129,3 | 156,3 | 155,3 |
| 54                                                                                                                                                                                                                                                                                 | -     | -      | 120,0 | -     | -    | - | 126,0 | 141,0 | 140,0 |
| 57                                                                                                                                                                                                                                                                                 | -     | -      | 115,0 | -     | -    | - | 118,0 | 131,5 | 130,5 |
| 58                                                                                                                                                                                                                                                                                 | -     | -      | -     | 115,0 | -    | - | 115,3 | 128,3 | 127,3 |
| 62                                                                                                                                                                                                                                                                                 | -     | -      | -     | 106,0 | -    | - | 105,0 | 116,6 | 115,6 |
| 66                                                                                                                                                                                                                                                                                 | -     | -      | -     | 98,5  | -    | - | 95,5  | 106,0 | 105,0 |
| 70                                                                                                                                                                                                                                                                                 | -     | -      | -     | 92,0  | -    | - | 87,5  | 97,5  | 96,2  |
| 74                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | -    | - | 80,0  | 89,8  | 88,8  |
| 75                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | 78,0 | - | 78,2  | 88,0  | 87,0  |
| 78                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | 74,0 | - | 73,0  | 82,5  | 81,5  |
| 82                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | 70,0 | - | 67,3  | 76,1  | 75,1  |
| 86                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | -    | - | 62,1  | 70,3  | 69,3  |
| 90                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | -    | - | 57,0  | 65,0  | 64,0  |
| 94                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | -    | - | 52,3  | 58,1  | 57,1  |
| 98                                                                                                                                                                                                                                                                                 | -     | -      | -     | -     | -    | - | 46,8  | 50,9  | 49,8  |
| 102                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -    | - | 40,6  | 44,3  | 42,6  |
| 105                                                                                                                                                                                                                                                                                | -     | -      | -     | -     | -    | - | 36,4  | 40,6  | 39,3  |

SWSL\_1:  11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  11-21 m

SFSL\_3 + SFSL\_4:  225 t +  50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

|  165 t +  50 t  11-21 m  8,40 m  9.8 m/s         360°         EN13000 |       |        |       |      |      |       |       |       |   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------|-------|------|------|-------|-------|-------|---|
|  78 m +  48 m                                                                                                                                                                                                                                                                                                             |       |        |       |      |      |       |       |       |   |
| <div> <div>SWSL_1</div> <div>(SFSL_1)(SFSL_3)(SFSL_4)</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div>                                                                                                                                                                                                                            |       |        |       |      |      |       |       |       |   |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | t     | t      | t     | t    | t    | t     | t     | t     | t |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 103,0 | 111,0  | -     | -    | -    | -     | -     | -     | - |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 98,5  | 110,0  | -     | -    | -    | -     | -     | -     | - |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 90,5  | 108,0  | -     | -    | -    | -     | -     | -     | - |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 83,5  | 112,0* | -     | -    | -    | -     | -     | -     | - |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 77,5  | 111,0* | -     | -    | -    | -     | -     | -     | - |
| 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 74,7  | 110,0* | -     | -    | -    | 107,0 | -     | -     | - |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 72,0  | 109,0* | -     | -    | -    | 107,0 | -     | -     | - |
| 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 69,5  | 108,0* | -     | -    | -    | 107,0 | 139,0 | 146,0 | - |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 67,0  | 107,0* | -     | -    | -    | 107,0 | 139,0 | 146,0 | - |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 59,0  | 103,0* | -     | -    | -    | 107,0 | 139,0 | 146,0 | - |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 52,5  | 98,5*  | -     | -    | -    | 106,3 | 137,6 | 144,0 | - |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 47,2  | 94,0*  | -     | -    | -    | 105,0 | 137,0 | 144,0 | - |
| 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 43,8  | 90,6*  | 104,0 | -    | -    | 104,0 | 135,0 | 142,5 | - |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 42,7  | 89,5*  | 104,0 | -    | -    | 103,6 | 135,0 | 142,3 | - |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 38,8  | 86,0*  | 103,0 | -    | -    | 102,0 | 134,0 | 141,0 | - |
| 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 37,1  | 84,2*  | 101,5 | -    | -    | 101,0 | 134,0 | 140,0 | - |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 32,5* | 82,5*  | 100,0 | -    | -    | 100,0 | 134,0 | 139,0 | - |
| 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 31,8* | 81,5*  | 99,3  | -    | -    | 99,5  | 132,1 | 136,1 | - |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 97,5  | -    | -    | 98,0  | 126,6 | 127,6 | - |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 94,0  | -    | -    | 94,7  | 118,0 | 117,0 | - |
| 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 90,8  | 89,5 | -    | 92,7  | 110,5 | 109,5 | - |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 90,0  | 89,5 | -    | 92,0  | 108,0 | 107,0 | - |
| 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | 86,5  | 88,8 | -    | 87,7  | 101,5 | 100,4 | - |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | 88,5 | -    | 86,3  | 99,3  | 98,2  | - |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | 83,0 | -    | 80,1  | 91,1  | 90,1  | - |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | 77,5 | -    | 73,5  | 83,5  | 82,5  | - |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | 73,0 | -    | 67,5  | 77,1  | 76,1  | - |
| 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -    | 64,5 | 64,5  | 74,0  | 73,0  | - |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -    | 62,5 | 62,1  | 71,3  | 70,3  | - |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -    | 59,0 | 57,0  | 66,0  | 65,0  | - |
| 93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -    | 57,0 | 53,5  | 62,1  | 61,2  | - |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -    | -    | 52,3  | 60,8  | 60,0  | - |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -     | -      | -     | -    | -    | 48,1  | 56,1  | 55,0  | - |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -    | -    | 44,3  | 51,5  | 50,0  | - |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -    | -    | 40,3  | 45,5  | 44,2  | - |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -    | -    | 35,1  | 39,4  | 38,3  | - |
| 114                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -    | -    | 29,6  | 33,9  | 32,3  | - |
| 116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | -     | -      | -     | -    | -    | 27,9  | 32,2  | 30,7  | - |

|  78 m +  60 m                                                                                 |       |       |      |      |      |      |       |       |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|------|-------|-------|---|
| <div> <div>SWSL_1</div> <div>(SFSL_1)(SFSL_3)(SFSL_4)</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |       |       |      |      |      |      |       |       |   |
| m                                                                                                                                                                                                                                                                | t     | t     | t    | t    | t    | t    | t     | t     | t |
| 21                                                                                                                                                                                                                                                               | 83,5  | 85,5  | -    | -    | -    | -    | -     | -     | - |
| 22                                                                                                                                                                                                                                                               | 82,5  | 85,0  | -    | -    | -    | -    | -     | -     | - |
| 24                                                                                                                                                                                                                                                               | 77,5  | 84,0  | -    | -    | -    | -    | -     | -     | - |
| 26                                                                                                                                                                                                                                                               | 71,5  | 85,5* | -    | -    | -    | -    | -     | -     | - |
| 28                                                                                                                                                                                                                                                               | 66,5  | 85,0* | -    | -    | -    | -    | -     | -     | - |
| 30                                                                                                                                                                                                                                                               | 62,0  | 84,0* | -    | -    | -    | -    | -     | -     | - |
| 31                                                                                                                                                                                                                                                               | 60,1  | 83,5* | -    | -    | -    | 82,5 | 105,0 | 110,0 | - |
| 34                                                                                                                                                                                                                                                               | 54,5  | 82,0* | -    | -    | -    | 82,5 | 105,0 | 110,0 | - |
| 38                                                                                                                                                                                                                                                               | 48,4  | 80,0* | -    | -    | -    | 82,3 | 105,0 | 110,0 | - |
| 42                                                                                                                                                                                                                                                               | 43,1  | 77,0* | -    | -    | -    | 82,0 | 105,0 | 110,0 | - |
| 46                                                                                                                                                                                                                                                               | 38,7  | 74,5* | -    | -    | -    | 81,0 | 105,0 | 108,6 | - |
| 49                                                                                                                                                                                                                                                               | 35,8  | 72,2* | 78,0 | -    | -    | 80,2 | 104,0 | 107,6 | - |
| 50                                                                                                                                                                                                                                                               | 34,9  | 71,5* | 78,0 | -    | -    | 80,0 | 103,6 | 107,3 | - |
| 54                                                                                                                                                                                                                                                               | 31,6  | 68,5* | 78,0 | -    | -    | 79,0 | 103,0 | 106,0 | - |
| 58                                                                                                                                                                                                                                                               | 28,7  | 66,0* | 78,0 | -    | -    | 77,6 | 100,6 | 104,0 | - |
| 62                                                                                                                                                                                                                                                               | 26,2  | 63,5* | 77,0 | -    | -    | 76,0 | 98,0  | 101,1 | - |
| 64                                                                                                                                                                                                                                                               | 25,1  | 62,5* | 76,0 | -    | -    | 75,0 | 96,5  | 99,3  | - |
| 66                                                                                                                                                                                                                                                               | 21,6* | 61,5* | 75,0 | -    | -    | 74,0 | 95,0  | 98,0  | - |
| 67                                                                                                                                                                                                                                                               | 21,1* | 61,0* | 74,5 | -    | -    | 73,5 | 94,1  | 96,9  | - |
| 70                                                                                                                                                                                                                                                               | -     | -     | 73,0 | -    | -    | 72,0 | 91,6  | 93,6  | - |
| 72                                                                                                                                                                                                                                                               | -     | -     | 71,7 | 65,5 | -    | 71,0 | 90,0  | 91,5  | - |
| 74                                                                                                                                                                                                                                                               | -     | -     | 70,5 | 65,5 | -    | 70,0 | 88,1  | 89,2  | - |
| 78                                                                                                                                                                                                                                                               | -     | -     | 68,0 | 65,5 | -    | 68,0 | 84,5  | 84,0  | - |
| 80                                                                                                                                                                                                                                                               | -     | -     | 66,5 | 65,5 | -    | 67,1 | 81,3  | 80,8  | - |
| 82                                                                                                                                                                                                                                                               | -     | -     | -    | 65,5 | -    | 66,3 | 78,1  | 77,6  | - |
| 86                                                                                                                                                                                                                                                               | -     | -     | -    | 65,0 | -    | 63,1 | 72,1  | 71,5  | - |
| 90                                                                                                                                                                                                                                                               | -     | -     | -    | 63,5 | -    | 58,5 | 66,5  | 65,5  | - |
| 92                                                                                                                                                                                                                                                               | -     | -     | -    | 61,5 | 55,0 | 56,1 | 64,0  | 62,8  | - |
| 93                                                                                                                                                                                                                                                               | -     | -     | -    | 60,5 | 54,5 | 55,0 | 62,7  | 61,5  | - |
| 94                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 53,5 | 53,8 | 61,5  | 60,1  | - |
| 98                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 50,5 | 49,4 | 56,8  | 55,1  | - |
| 102                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 48,2 | 45,4 | 52,0  | 50,5  | - |
| 105                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 46,3 | 42,6 | 48,9  | 47,4  | - |
| 106                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 41,7 | 47,8  | 46,4  | - |
| 110                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 38,2 | 43,8  | 42,4  | - |
| 114                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 35,0 | 40,0  | 38,5  | - |
| 118                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 30,6 | 34,9  | 33,7  | - |
| 122                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 26,1 | 29,7  | 28,8  | - |
| 126                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 22,3 | 25,0  | 23,6  | - |
| 128                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 20,9 | 23,7  | 22,2  | - |

SWSL\_1:  11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4:  11-21 m

SFSL\_3 + SFSL\_4:  225 t +  50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |  |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|--|
| 78 m + 72 m                                      |         |         |      |      |      |      |      |      |  |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |      |  |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |  |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  |  |
| 24                                               | 63,0    | 64,5    | -    | -    | -    | -    | -    | -    |  |
| 26                                               | 62,5    | 64,0    | -    | -    | -    | -    | -    | -    |  |
| 28                                               | 61,5    | 63,5    | -    | -    | -    | -    | -    | -    |  |
| 30                                               | 57,0    | 64,0*   | -    | -    | -    | -    | -    | -    |  |
| 34                                               | 50,0    | 63,0*   | -    | -    | -    | -    | -    | -    |  |
| 35                                               | 48,5    | 62,7*   | -    | -    | -    | 62,0 | -    | 82,0 |  |
| 37                                               | 45,6    | 62,2*   | -    | -    | -    | 62,0 | 78,9 | 81,9 |  |
| 38                                               | 44,2    | 62,0*   | -    | -    | -    | 62,0 | 79,0 | 81,8 |  |
| 42                                               | 39,2    | 60,5*   | -    | -    | -    | 62,0 | 78,5 | 81,5 |  |
| 46                                               | 34,9    | 59,0*   | -    | -    | -    | 61,3 | 77,8 | 80,5 |  |
| 50                                               | 31,2    | 57,5*   | -    | -    | -    | 60,6 | 77,0 | 79,5 |  |
| 54                                               | 28,0    | 55,5*   | 57,0 | -    | -    | 60,0 | 76,0 | 78,5 |  |
| 58                                               | 25,2    | 54,0*   | 57,0 | -    | -    | 59,0 | 74,6 | 76,8 |  |
| 62                                               | 22,7    | 52,0*   | 57,0 | -    | -    | 57,8 | 73,3 | 75,3 |  |
| 66                                               | 20,5    | 50,0*   | 57,0 | -    | -    | 56,5 | 72,0 | 74,0 |  |
| 70                                               | 18,6    | 48,7*   | 56,5 | -    | -    | 55,5 | 70,0 | 71,8 |  |
| 74                                               | 16,9    | 47,1*   | 56,0 | -    | -    | 54,3 | 68,5 | 70,0 |  |
| 76                                               | 16,1    | 46,3*   | 55,5 | -    | -    | 53,6 | 67,5 | 69,0 |  |
| 78                                               | 13,1*   | 45,6*   | 55,0 | -    | -    | 53,0 | 66,5 | 68,0 |  |
| 79                                               | -       | -       | 54,6 | 47,9 | -    | 52,2 | 66,1 | 67,5 |  |
| 82                                               | -       | -       | 53,5 | 47,9 | -    | 51,5 | 65,1 | 66,3 |  |
| 86                                               | -       | -       | 52,5 | 47,9 | -    | 50,0 | 63,6 | 64,5 |  |
| 90                                               | -       | -       | 50,5 | 47,9 | -    | 48,8 | 62,0 | 62,5 |  |
| 92                                               | -       | -       | 50,0 | 47,8 | -    | 47,9 | 60,3 | 60,5 |  |
| 94                                               | -       | -       | -    | 47,8 | -    | 47,1 | 58,6 | 58,5 |  |
| 98                                               | -       | -       | -    | 47,8 | -    | 45,7 | 54,9 | 53,9 |  |
| 100                                              | -       | -       | -    | 47,6 | 40,3 | 45,0 | 52,7 | 51,8 |  |
| 102                                              | -       | -       | -    | 47,5 | 40,0 | 44,3 | 50,5 | 49,7 |  |
| 105                                              | -       | -       | -    | 47,4 | 40,0 | 42,2 | 47,7 | 46,7 |  |
| 106                                              | -       | -       | -    | -    | 40,0 | 41,5 | 46,8 | 45,7 |  |
| 110                                              | -       | -       | -    | -    | 40,0 | 38,4 | 43,1 | 41,8 |  |
| 114                                              | -       | -       | -    | -    | 38,4 | 35,2 | 39,4 | 38,1 |  |
| 117                                              | -       | -       | -    | -    | 37,0 | 32,9 | 36,7 | 35,5 |  |
| 118                                              | -       | -       | -    | -    | -    | 32,2 | 35,9 | 34,6 |  |
| 122                                              | -       | -       | -    | -    | -    | 29,3 | 32,7 | 31,3 |  |
| 126                                              | -       | -       | -    | -    | -    | 26,2 | 29,5 | 28,2 |  |
| 130                                              | -       | -       | -    | -    | -    | 22,2 | 25,6 | 24,4 |  |
| 134                                              | -       | -       | -    | -    | -    | 18,1 | 21,2 | 20,3 |  |
| 138                                              | -       | -       | -    | -    | -    | 15,7 | 16,8 | 15,9 |  |
| 139                                              | -       | -       | -    | -    | -    | 14,8 | 16,2 | 14,9 |  |

| 78 m + 84 m                       |         |         |      |      |      |      |      |      |  |
|-----------------------------------|---------|---------|------|------|------|------|------|------|--|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |  |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |  |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  |  |
| 27                                | 47,6    | 48,8    | -    | -    | -    | -    | -    | -    |  |
| 28                                | 47,5    | 48,6    | -    | -    | -    | -    | -    | -    |  |
| 30                                | 47,2    | 48,2    | -    | -    | -    | -    | -    | -    |  |
| 34                                | 45,6    | 48,1*   | -    | -    | -    | -    | -    | -    |  |
| 38                                | 39,9    | 47,6*   | -    | -    | -    | -    | -    | -    |  |
| 39                                | 38,7    | 47,4*   | -    | -    | -    | 47,0 | 58,5 | 60,5 |  |
| 42                                | 35,1    | 46,8*   | -    | -    | -    | 46,8 | 58,5 | 60,5 |  |
| 46                                | 31,0    | 45,9*   | -    | -    | -    | 46,5 | 58,1 | 59,8 |  |
| 50                                | 27,5    | 45,0*   | -    | -    | -    | 46,0 | 57,5 | 59,0 |  |
| 54                                | 24,4    | 44,0*   | -    | -    | -    | 45,4 | 56,5 | 58,0 |  |
| 58                                | 21,7    | 42,8*   | -    | -    | -    | 44,6 | 55,5 | 57,0 |  |
| 60                                | 20,5    | 42,2*   | 41,5 | -    | -    | 44,3 | 55,0 | 56,5 |  |
| 62                                | 19,3    | 41,7*   | 41,5 | -    | -    | 43,9 | 54,5 | 56,0 |  |
| 66                                | 17,2    | 40,6*   | 41,5 | -    | -    | 43,0 | 53,5 | 55,0 |  |
| 70                                | 15,2    | 39,4*   | 41,5 | -    | -    | 42,0 | 52,5 | 53,8 |  |
| 74                                | 13,5    | 38,2*   | 41,5 | -    | -    | 41,1 | 51,3 | 52,5 |  |
| 78                                | 12,0    | 37,1*   | 41,5 | -    | -    | 40,1 | 50,0 | 51,0 |  |
| 82                                | 10,5    | 36,0*   | 41,5 | -    | -    | 39,1 | 49,0 | 50,0 |  |
| 86                                | 9,3     | 35,0*   | 41,4 | 33,8 | -    | 38,1 | 47,9 | 49,0 |  |
| 87                                | 9,0     | 34,7*   | 41,2 | 33,8 | -    | 37,9 | 47,7 | 48,7 |  |
| 90                                | 6,2*    | 33,9*   | 40,7 | 33,8 | -    | 37,2 | 46,9 | 47,8 |  |
| 94                                | -       | -       | 40,0 | 33,8 | -    | 36,1 | 45,7 | 46,6 |  |
| 98                                | -       | -       | 39,1 | 33,8 | -    | 35,1 | 44,6 | 45,3 |  |
| 102                               | -       | -       | 38,2 | 33,7 | -    | 34,2 | 43,5 | 44,2 |  |
| 103                               | -       | -       | 38,0 | 33,7 | -    | 33,7 | 42,8 | 43,6 |  |
| 106                               | -       | -       | -    | 33,7 | -    | 33,0 | 41,3 | 41,8 |  |
| 109                               | -       | -       | -    | 33,7 | 27,8 | 32,2 | 39,7 | 40,0 |  |
| 110                               | -       | -       | -    | 33,7 | 27,7 | 31,8 | 39,2 | 39,4 |  |
| 114                               | -       | -       | -    | 33,7 | 27,7 | 30,8 | 37,0 | 37,0 |  |
| 116                               | -       | -       | -    | 33,7 | 27,7 | 30,3 | 35,9 | 35,5 |  |
| 118                               | -       | -       | -    | -    | 27,7 | 29,8 | 34,8 | 34,1 |  |
| 122                               | -       | -       | -    | -    | 27,5 | 28,8 | 32,3 | 31,1 |  |
| 126                               | -       | -       | -    | -    | 27,5 | 26,6 | 29,4 | 28,2 |  |
| 128                               | -       | -       | -    | -    | 27,5 | 25,3 | 27,9 | 26,7 |  |
| 130                               | -       | -       | -    | -    | -    | 24,1 | 26,5 | 25,3 |  |
| 134                               | -       | -       | -    | -    | -    | 21,3 | 23,8 | 22,6 |  |
| 138                               | -       | -       | -    | -    | -    | 18,1 | 21,2 | 20,0 |  |
| 142                               | -       | -       | -    | -    | -    | 14,6 | 17,6 | 16,8 |  |
| 146                               | -       | -       | -    | -    | -    | 11,4 | 13,7 | 13,3 |  |
| 150                               | -       | -       | -    | -    | -    | 9,1  | 10,1 | 9,4  |  |
| 151                               | -       | -       | -    | -    | -    | 8,2  | 9,6  | 8,4  |  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|-----|
| 78 m + 96 m                                      |         |         |      |      |      |      |      |      |     |
| SWSL_1 (SFSL_1) (SFSL_3) (SFSL_4)                |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 30                                               | 35,0    | 36,0    | -    | -    | -    | -    | -    | -    | -   |
| 34                                               | 34,6    | 35,4    | -    | -    | -    | -    | -    | -    | -   |
| 38                                               | 34,0    | 35,1*   | -    | -    | -    | -    | -    | -    | -   |
| 42                                               | 31,3    | 34,8*   | -    | -    | -    | -    | -    | -    | -   |
| 43                                               | 30,3    | 34,6*   | -    | -    | -    | 34,4 | 42,1 | 43,5 | -   |
| 46                                               | 27,4    | 34,2*   | -    | -    | -    | 34,1 | 41,8 | 43,2 | -   |
| 50                                               | 23,9    | 33,7*   | -    | -    | -    | 33,8 | 41,4 | 42,7 | -   |
| 54                                               | 21,0    | 33,0*   | -    | -    | -    | 33,5 | 41,0 | 42,2 | -   |
| 58                                               | 18,4    | 32,4*   | -    | -    | -    | 32,8 | 40,1 | 41,4 | -   |
| 62                                               | 16,0    | 31,6*   | -    | -    | -    | 32,1 | 39,2 | 40,5 | -   |
| 65                                               | 14,5    | 31,0*   | 29,1 | -    | -    | 31,6 | 38,6 | 39,9 | -   |
| 66                                               | 14,0    | 30,9*   | 29,1 | -    | -    | 31,5 | 38,4 | 39,7 | -   |
| 70                                               | 12,1    | 30,1*   | 29,1 | -    | -    | 30,7 | 37,6 | 38,8 | -   |
| 74                                               | 10,4    | 29,4*   | 29,1 | -    | -    | 30,0 | 36,7 | 37,8 | -   |
| 78                                               | 8,9     | 28,6*   | 29,1 | -    | -    | 29,2 | 35,8 | 36,8 | -   |
| 82                                               | 7,5     | 27,8*   | 29,1 | -    | -    | 28,4 | 34,8 | 35,8 | -   |
| 86                                               | 6,2     | 27,0*   | 29,1 | -    | -    | 27,6 | 33,8 | 34,7 | -   |
| 90                                               | 5,0     | 26,3*   | 29,1 | -    | -    | 26,8 | 32,8 | 33,7 | -   |
| 92                                               | 4,4     | 25,9*   | 29,1 | 22,5 | -    | 26,5 | 32,3 | 33,0 | -   |
| 93                                               | 4,2     | 25,7*   | 29,1 | 22,5 | -    | 26,3 | 32,0 | 32,8 | -   |
| 94                                               | -       | 25,6*   | 29,1 | 22,5 | -    | 26,1 | 31,8 | 32,5 | -   |
| 98                                               | -       | 24,9*   | 28,9 | 22,5 | -    | 25,3 | 30,8 | 31,5 | -   |
| 99                                               | -       | 24,7*   | 28,8 | 22,5 | -    | 25,1 | 30,5 | 31,2 | -   |
| 102                                              | -       | 24,3*   | 28,7 | 22,5 | -    | 24,5 | 29,8 | 30,3 | -   |
| 106                                              | -       | -       | 28,5 | 22,5 | -    | 23,8 | 28,8 | 29,2 | -   |
| 110                                              | -       | -       | 28,1 | 22,5 | -    | 23,0 | 27,6 | 28,0 | -   |
| 114                                              | -       | -       | 27,8 | 22,5 | -    | 22,3 | 26,8 | 27,1 | -   |
| 115                                              | -       | -       | 27,7 | 22,5 | -    | 22,0 | 26,6 | 26,8 | -   |
| 117                                              | -       | -       | -    | 22,5 | 17,6 | 21,7 | 26,2 | 26,3 | -   |
| 118                                              | -       | -       | -    | 22,5 | 17,6 | 21,5 | 26,0 | 26,1 | -   |
| 122                                              | -       | -       | -    | 22,5 | 17,6 | 20,8 | 25,1 | 25,0 | -   |
| 126                                              | -       | -       | -    | 22,5 | 17,6 | 20,1 | 24,3 | 24,1 | -   |
| 128                                              | -       | -       | -    | 22,5 | 17,6 | 19,8 | 23,9 | 23,6 | -   |
| 130                                              | -       | -       | -    | -    | 17,6 | 19,2 | 23,5 | 23,1 | -   |
| 134                                              | -       | -       | -    | -    | 17,6 | 18,5 | 22,3 | 21,7 | -   |
| 138                                              | -       | -       | -    | -    | 17,6 | 17,8 | 20,6 | 19,5 | -   |
| 140                                              | -       | -       | -    | -    | 17,6 | 16,9 | 19,4 | 18,3 | -   |
| 142                                              | -       | -       | -    | -    | -    | 16,0 | 18,2 | 17,1 | -   |
| 146                                              | -       | -       | -    | -    | -    | 13,6 | 15,9 | 14,8 | -   |
| 150                                              | -       | -       | -    | -    | -    | 10,6 | 13,8 | 12,6 | -   |
| 154                                              | -       | -       | -    | -    | -    | 7,6  | 10,6 | 9,7  | -   |
| 158                                              | -       | -       | -    | -    | -    | 5,6  | 7,3  | 6,5  | -   |
| 160                                              | -       | -       | -    | -    | -    | 4,4  | 5,6  | 4,8  | -   |
| 161                                              | -       | -       | -    | -    | -    | -    | 4,7  | -    | -   |

| 84 m + 24 m                       |         |         |       |       |      |       |       |       |     |
|-----------------------------------|---------|---------|-------|-------|------|-------|-------|-------|-----|
| SWSL_1 (SFSL_1) (SFSL_3) (SFSL_4) |         |         |       |       |      |       |       |       |     |
| 0 t 0 t-325 t                     |         |         |       |       |      |       |       |       |     |
| m                                 | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   | 15°   | 15° |
| 14                                | 148,0   | 174,0   | -     | -     | -    | -     | -     | -     | -   |
| 16                                | 133,0   | 169,0   | -     | -     | -    | -     | -     | -     | -   |
| 18                                | 120,0   | 175,0*  | -     | -     | -    | -     | -     | -     | -   |
| 19                                | 115,0   | 173,0*  | -     | -     | -    | 170,0 | -     | 237,0 | -   |
| 20                                | 110,0   | 171,0*  | -     | -     | -    | 170,0 | -     | 237,0 | -   |
| 21                                | 105,5   | 168,5*  | -     | -     | -    | 170,0 | 224,0 | 237,0 | -   |
| 22                                | 101,0   | 166,0*  | -     | -     | -    | 170,0 | 224,0 | 237,0 | -   |
| 24                                | 93,5    | 160,0*  | -     | -     | -    | 169,0 | 221,0 | 236,0 | -   |
| 26                                | 87,0    | 155,0*  | -     | -     | -    | 169,0 | 221,0 | 235,0 | -   |
| 28                                | 81,5    | 150,0*  | -     | -     | -    | 168,0 | 219,0 | 234,0 | -   |
| 30                                | 77,0    | 145,0*  | -     | -     | -    | 166,0 | 219,0 | 234,0 | -   |
| 33                                | 65,0*   | 138,0*  | -     | -     | -    | 164,0 | 214,0 | 227,5 | -   |
| 34                                | -       | -       | -     | -     | -    | 163,3 | 214,0 | 226,6 | -   |
| 36                                | -       | -       | 164,0 | -     | -    | 162,0 | 214,0 | 225,0 | -   |
| 38                                | -       | -       | 161,0 | -     | -    | 159,0 | 206,0 | 213,0 | -   |
| 42                                | -       | -       | 152,0 | -     | -    | 155,0 | 190,0 | 189,0 | -   |
| 46                                | -       | -       | 143,0 | -     | -    | 150,3 | 170,0 | 169,0 | -   |
| 47                                | -       | -       | 140,0 | -     | -    | 149,1 | 165,0 | 164,0 | -   |
| 50                                | -       | -       | -     | -     | -    | 140,3 | 152,0 | 151,0 | -   |
| 54                                | -       | -       | -     | 124,0 | -    | 125,0 | 136,0 | 135,0 | -   |
| 58                                | -       | -       | -     | 114,0 | -    | 113,0 | 124,0 | 122,3 | -   |
| 61                                | -       | -       | -     | 108,0 | -    | 104,5 | 115,4 | 113,5 | -   |
| 62                                | -       | -       | -     | -     | -    | 102,0 | 112,8 | 111,0 | -   |
| 66                                | -       | -       | -     | -     | -    | 92,0  | 102,0 | 101,0 | -   |
| 70                                | -       | -       | -     | -     | -    | 84,3  | 93,6  | 92,6  | -   |
| 71                                | -       | -       | -     | -     | 82,5 | 82,4  | 91,5  | 90,5  | -   |
| 74                                | -       | -       | -     | -     | 79,0 | 77,1  | 86,0  | 84,8  | -   |
| 78                                | -       | -       | -     | -     | -    | 70,5  | 79,0  | 77,5  | -   |
| 82                                | -       | -       | -     | -     | -    | 64,5  | 72,6  | 71,5  | -   |
| 86                                | -       | -       | -     | -     | -    | 59,0  | 66,8  | 65,5  | -   |
| 90                                | -       | -       | -     | -     | -    | 54,0  | 59,0  | 58,0  | -   |
| 94                                | -       | -       | -     | -     | -    | 47,2  | 51,1  | 50,0  | -   |
| 98                                | -       | -       | -     | -     | -    | 40,2  | 45,2  | 43,3  | -   |

0 t
 65 t
 125 t
 165 t
 205 t
 245 t
 285 t
 325 t

SWSL\_1: 11-19 m  
 SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m  
 SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°, as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

# SWSL, SFSL

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |      |       |       |       |   |
|--------------------------------------------------|---------|---------|-------|-------|------|-------|-------|-------|---|
| 84 m + 36 m                                      |         |         |       |       |      |       |       |       |   |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |       |       |      |       |       |       |   |
| 0 t 0 t-325 t                                    |         |         |       |       |      |       |       |       |   |
| m                                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   | 15°   |   |
| t                                                | t       | t       | t     | t     | t    | t     | t     | t     | t |
| 16                                               | 123,0   | 133,0   | -     | -     | -    | -     | -     | -     | - |
| 18                                               | 111,0   | 130,0   | -     | -     | -    | -     | -     | -     | - |
| 20                                               | 102,0   | 128,0   | -     | -     | -    | -     | -     | -     | - |
| 22                                               | 93,5    | 132,0*  | -     | -     | -    | -     | -     | -     | - |
| 23                                               | 90,0    | 130,5*  | -     | -     | -    | 128,0 | -     | -     | - |
| 24                                               | 86,5    | 129,0*  | -     | -     | -    | 128,0 | -     | -     | - |
| 25                                               | 83,5    | 127,5*  | -     | -     | -    | 128,0 | 169,0 | 181,0 | - |
| 26                                               | 80,5    | 126,0*  | -     | -     | -    | 128,0 | 171,0 | 182,0 | - |
| 28                                               | 75,0    | 123,0*  | -     | -     | -    | 128,0 | 171,0 | 181,0 | - |
| 30                                               | 70,5    | 120,0*  | -     | -     | -    | 128,0 | 171,0 | 181,0 | - |
| 34                                               | 62,0    | 113,0*  | -     | -     | -    | 126,0 | 167,0 | 179,0 | - |
| 38                                               | 55,5    | 107,0*  | -     | -     | -    | 124,0 | 165,0 | 177,0 | - |
| 41                                               | 51,5    | 102,5*  | 123,0 | -     | -    | 122,5 | 165,0 | 177,0 | - |
| 42                                               | 46,4*   | 101,0*  | 123,0 | -     | -    | 122,0 | 165,0 | 177,0 | - |
| 44                                               | 44,2*   | 99,0*   | 121,3 | -     | -    | 120,6 | 162,3 | 171,6 | - |
| 46                                               | -       | -       | 120,0 | -     | -    | 119,3 | 160,6 | 166,3 | - |
| 50                                               | -       | -       | 115,0 | -     | -    | 116,3 | 152,3 | 153,0 | - |
| 54                                               | -       | -       | 109,0 | -     | -    | 113,0 | 139,0 | 137,0 | - |
| 58                                               | -       | -       | 102,0 | -     | -    | 109,0 | 126,3 | 124,3 | - |
| 59                                               | -       | -       | 101,0 | -     | -    | 108,0 | 123,1 | 121,1 | - |
| 61                                               | -       | -       | -     | 104,0 | -    | 105,0 | 117,3 | 115,5 | - |
| 62                                               | -       | -       | -     | 103,0 | -    | 103,0 | 114,6 | 113,0 | - |
| 66                                               | -       | -       | -     | 96,0  | -    | 94,0  | 104,0 | 103,0 | - |
| 70                                               | -       | -       | -     | 89,5  | -    | 85,6  | 95,7  | 94,3  | - |
| 72                                               | -       | -       | -     | 86,5  | -    | 81,5  | 91,5  | 90,0  | - |
| 74                                               | -       | -       | -     | -     | -    | 78,1  | 87,8  | 86,3  | - |
| 78                                               | -       | -       | -     | -     | -    | 71,5  | 80,5  | 79,0  | - |
| 79                                               | -       | -       | -     | -     | 70,0 | 70,0  | 78,9  | 77,4  | - |
| 82                                               | -       | -       | -     | -     | 67,0 | 65,8  | 74,1  | 72,6  | - |
| 85                                               | -       | -       | -     | -     | 64,0 | 61,6  | 69,6  | 68,1  | - |
| 86                                               | -       | -       | -     | -     | -    | 60,3  | 68,3  | 66,7  | - |
| 90                                               | -       | -       | -     | -     | -    | 55,0  | 63,0  | 61,5  | - |
| 94                                               | -       | -       | -     | -     | -    | 50,6  | 58,0  | 56,5  | - |
| 98                                               | -       | -       | -     | -     | -    | 46,3  | 52,4  | 50,8  | - |
| 102                                              | -       | -       | -     | -     | -    | 42,1  | 46,2  | 44,5  | - |
| 106                                              | -       | -       | -     | -     | -    | 36,0  | 39,6  | 37,9  | - |
| 110                                              | -       | -       | -     | -     | -    | 30,5  | 34,5  | 32,8  | - |

| 84 m + 48 m                       |         |         |      |      |      |     |     |     |   |
|-----------------------------------|---------|---------|------|------|------|-----|-----|-----|---|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |     |     |     |   |
| 0 t 0 t-325 t                     |         |         |      |      |      |     |     |     |   |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15° | 15° | 15° |   |
| t                                 | t       | t       | t    | t    | t    | t   | t   | t   | t |
| 19                                | 98,0    | 101,0   | -    | -    | -    | -   | -   | -   | - |
| 20                                | 94,0    | 100,0   | -    | -    | -    | -   | -   | -   | - |
| 22                                | 86,5    | 99,0    | -    | -    | -    | -   | -   | -   | - |
| 24                                | 80,0    | 101,0*  | -    | -    | -    | -   | -   | -   | - |
| 26                                | 74,0    | 100,0*  | -    | -    | -    | -   | -   | -   | - |
| 28                                | 69,0    | 98,5*   | -    | -    | -    | -   | -   | -   | - |
| 30                                | 64,5    | 97,0*   | -    | -    | -    | -   | -   | -   | - |
| 34                                | 57,0    | 93,0*   | -    | -    | -    | -   | -   | -   | - |
| 38                                | 50,5    | 89,0*   | -    | -    | -    | -   | -   | -   | - |
| 42                                | 45,4    | 85,0*   | -    | -    | -    | -   | -   | -   | - |
| 46                                | 41,0    | 81,0*   | 93,5 | -    | -    | -   | -   | -   | - |
| 50                                | 37,3    | 77,5*   | 92,5 | -    | -    | -   | -   | -   | - |
| 53                                | 34,9    | 74,8*   | 91,0 | -    | -    | -   | -   | -   | - |
| 54                                | 30,8*   | 74,0*   | 90,5 | -    | -    | -   | -   | -   | - |
| 56                                | 29,5*   | 72,5*   | 89,0 | -    | -    | -   | -   | -   | - |
| 58                                | -       | -       | 87,5 | -    | -    | -   | -   | -   | - |
| 62                                | -       | -       | 84,0 | -    | -    | -   | -   | -   | - |
| 66                                | -       | -       | 81,0 | -    | -    | -   | -   | -   | - |
| 68                                | -       | -       | 79,0 | 80,0 | -    | -   | -   | -   | - |
| 70                                | -       | -       | 77,0 | 79,5 | -    | -   | -   | -   | - |
| 74                                | -       | -       | -    | 79,0 | -    | -   | -   | -   | - |
| 78                                | -       | -       | -    | 76,0 | -    | -   | -   | -   | - |
| 82                                | -       | -       | -    | 71,5 | -    | -   | -   | -   | - |
| 84                                | -       | -       | -    | 69,5 | -    | -   | -   | -   | - |
| 86                                | -       | -       | -    | -    | -    | -   | -   | -   | - |
| 87                                | -       | -       | -    | -    | 59,0 | -   | -   | -   | - |
| 90                                | -       | -       | -    | -    | 56,5 | -   | -   | -   | - |
| 94                                | -       | -       | -    | -    | 53,5 | -   | -   | -   | - |
| 97                                | -       | -       | -    | -    | 51,5 | -   | -   | -   | - |
| 98                                | -       | -       | -    | -    | -    | -   | -   | -   | - |
| 102                               | -       | -       | -    | -    | -    | -   | -   | -   | - |
| 106                               | -       | -       | -    | -    | -    | -   | -   | -   | - |
| 110                               | -       | -       | -    | -    | -    | -   | -   | -   | - |
| 114                               | -       | -       | -    | -    | -    | -   | -   | -   | - |
| 118                               | -       | -       | -    | -    | -    | -   | -   | -   | - |
| 121                               | -       | -       | -    | -    | -    | -   | -   | -   | - |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |       |       |     |
|--------------------------------------------------|---------|---------|------|------|------|------|-------|-------|-----|
| 84 m + 60 m                                      |         |         |      |      |      |      |       |       |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |       |       |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |       |       |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°   | 15°   | 15° |
| t                                                | t       | t       | t    | t    | t    | t    | t     | t     | t   |
| 22                                               | 76,5    | 78,0    | -    | -    | -    | -    | -     | -     | -   |
| 24                                               | 74,0    | 77,0    | -    | -    | -    | -    | -     | -     | -   |
| 26                                               | 68,5    | 76,0    | -    | -    | -    | -    | -     | -     | -   |
| 28                                               | 64,0    | 77,5*   | -    | -    | -    | -    | -     | -     | -   |
| 30                                               | 59,5    | 77,0*   | -    | -    | -    | -    | -     | -     | -   |
| 32                                               | 55,7    | 76,0*   | -    | -    | -    | 75,5 | 100,0 | 105,0 | -   |
| 34                                               | 52,0    | 75,0*   | -    | -    | -    | 75,2 | 100,0 | 105,0 | -   |
| 38                                               | 46,4    | 72,5*   | -    | -    | -    | 74,8 | 100,0 | 105,0 | -   |
| 42                                               | 41,4    | 70,0*   | -    | -    | -    | 74,5 | 100,0 | 105,0 | -   |
| 46                                               | 37,1    | 67,5*   | -    | -    | -    | 73,5 | 100,0 | 104,3 | -   |
| 50                                               | 33,4    | 65,0*   | -    | -    | -    | 72,5 | 99,5  | 103,3 | -   |
| 51                                               | 32,6    | 64,2*   | 69,5 | -    | -    | 72,2 | 99,2  | 103,0 | -   |
| 54                                               | 30,2    | 62,0*   | 69,5 | -    | -    | 71,5 | 98,5  | 102,0 | -   |
| 58                                               | 27,5    | 59,5*   | 69,0 | -    | -    | 70,1 | 96,8  | 100,3 | -   |
| 62                                               | 25,1    | 57,5*   | 68,0 | -    | -    | 68,6 | 95,0  | 98,0  | -   |
| 64                                               | 24,0    | 56,5*   | 67,0 | -    | -    | 67,8 | 94,0  | 96,6  | -   |
| 66                                               | 20,2*   | 55,5*   | 66,0 | -    | -    | 67,0 | 93,0  | 95,5  | -   |
| 67                                               | 19,7*   | 55,0*   | 65,5 | -    | -    | 66,5 | 91,9  | 94,4  | -   |
| 70                                               | -       | -       | 64,0 | -    | -    | 65,3 | 88,9  | 91,1  | -   |
| 74                                               | -       | -       | 61,5 | 59,0 | -    | 63,1 | 85,1  | 86,6  | -   |
| 78                                               | -       | -       | 59,0 | 59,0 | -    | 61,5 | 81,5  | 82,0  | -   |
| 82                                               | -       | -       | 56,5 | 59,0 | -    | 59,3 | 75,8  | 75,6  | -   |
| 86                                               | -       | -       | -    | 57,5 | -    | 57,5 | 70,0  | 69,3  | -   |
| 90                                               | -       | -       | -    | 56,0 | -    | 55,5 | 64,0  | 63,0  | -   |
| 94                                               | -       | -       | -    | 54,0 | -    | 51,7 | 59,0  | 57,8  | -   |
| 95                                               | -       | -       | -    | 53,2 | 48,7 | 50,7 | 57,7  | 56,6  | -   |
| 96                                               | -       | -       | -    | 52,5 | 48,7 | 49,8 | 56,5  | 55,5  | -   |
| 98                                               | -       | -       | -    | -    | 47,9 | 47,7 | 54,3  | 53,2  | -   |
| 102                                              | -       | -       | -    | -    | 45,3 | 43,6 | 50,0  | 48,6  | -   |
| 106                                              | -       | -       | -    | -    | 42,9 | 39,9 | 45,8  | 44,4  | -   |
| 108                                              | -       | -       | -    | -    | 41,8 | 38,1 | 43,7  | 42,3  | -   |
| 110                                              | -       | -       | -    | -    | -    | 36,4 | 41,7  | 40,3  | -   |
| 114                                              | -       | -       | -    | -    | -    | 33,2 | 37,9  | 36,5  | -   |
| 118                                              | -       | -       | -    | -    | -    | 30,2 | 34,3  | 32,9  | -   |
| 122                                              | -       | -       | -    | -    | -    | 26,6 | 30,4  | 29,6  | -   |
| 126                                              | -       | -       | -    | -    | -    | 22,4 | 25,8  | 24,9  | -   |
| 130                                              | -       | -       | -    | -    | -    | 18,1 | 21,0  | 20,1  | -   |
| 133                                              | -       | -       | -    | -    | -    | 16,5 | 18,2  | 16,8  | -   |

| 84 m + 72 m                       |         |         |      |      |      |      |      |      |     |
|-----------------------------------|---------|---------|------|------|------|------|------|------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |     |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| t                                 | t       | t       | t    | t    | t    | t    | t    | t    | t   |
| 24                                | 58,0    | 59,5    | -    | -    | -    | -    | -    | -    | -   |
| 26                                | 57,5    | 59,0    | -    | -    | -    | -    | -    | -    | -   |
| 28                                | 57,0    | 58,0    | -    | -    | -    | -    | -    | -    | -   |
| 30                                | 54,5    | 59,0*   | -    | -    | -    | -    | -    | -    | -   |
| 34                                | 47,9    | 58,0*   | -    | -    | -    | -    | -    | -    | -   |
| 36                                | 45,0    | 57,2*   | -    | -    | -    | 57,0 | -    | 79,0 | -   |
| 38                                | 42,2    | 56,5*   | -    | -    | -    | 56,8 | 76,0 | 78,8 | -   |
| 42                                | 37,4    | 55,5*   | -    | -    | -    | 56,5 | 75,5 | 78,5 | -   |
| 46                                | 33,3    | 54,0*   | -    | -    | -    | 55,8 | 75,1 | 77,8 | -   |
| 50                                | 29,8    | 52,0*   | -    | -    | -    | 55,1 | 74,5 | 77,0 | -   |
| 54                                | 26,7    | 50,5*   | -    | -    | -    | 54,5 | 73,5 | 76,0 | -   |
| 56                                | 25,3    | 49,7*   | 52,0 | -    | -    | 54,0 | 73,0 | 75,3 | -   |
| 58                                | 24,0    | 48,9*   | 52,0 | -    | -    | 53,5 | 72,5 | 74,6 | -   |
| 62                                | 21,6    | 47,1*   | 52,0 | -    | -    | 52,7 | 71,3 | 73,3 | -   |
| 66                                | 19,5    | 45,4*   | 51,5 | -    | -    | 51,5 | 70,0 | 72,0 | -   |
| 70                                | 17,6    | 43,8*   | 51,5 | -    | -    | 50,4 | 68,4 | 70,5 | -   |
| 74                                | 15,9    | 42,2*   | 50,5 | -    | -    | 49,2 | 66,6 | 68,5 | -   |
| 76                                | 15,2    | 41,5*   | 50,0 | -    | -    | 48,5 | 65,8 | 67,5 | -   |
| 78                                | 12,0*   | 40,8*   | 49,5 | -    | -    | 47,9 | 65,0 | 66,5 | -   |
| 79                                | 11,6*   | 40,4*   | 49,1 | -    | -    | 47,6 | 64,5 | 66,0 | -   |
| 81                                | -       | -       | 48,4 | 43,1 | -    | 46,9 | 63,7 | 65,0 | -   |
| 82                                | -       | -       | 48,1 | 43,1 | -    | 46,6 | 63,3 | 64,5 | -   |
| 86                                | -       | -       | 46,7 | 43,1 | -    | 45,3 | 61,6 | 62,5 | -   |
| 90                                | -       | -       | 45,0 | 43,1 | -    | 44,0 | 60,0 | 60,5 | -   |
| 93                                | -       | -       | 43,7 | 43,1 | -    | 42,9 | 58,1 | 57,6 | -   |
| 94                                | -       | -       | -    | 43,1 | -    | 42,5 | 57,5 | 56,4 | -   |
| 98                                | -       | -       | -    | 42,9 | -    | 40,8 | 52,8 | 51,7 | -   |
| 102                               | -       | -       | -    | 42,3 | -    | 39,4 | 48,4 | 47,2 | -   |
| 104                               | -       | -       | -    | 41,7 | 35,6 | 38,6 | 46,4 | 45,2 | -   |
| 106                               | -       | -       | -    | 41,1 | 35,3 | 37,8 | 44,5 | 43,3 | -   |
| 107                               | -       | -       | -    | 40,7 | 35,3 | 37,4 | 43,5 | 42,3 | -   |
| 110                               | -       | -       | -    | -    | 35,3 | 35,8 | 40,8 | 39,5 | -   |
| 114                               | -       | -       | -    | -    | 35,3 | 33,4 | 37,2 | 35,9 | -   |
| 118                               | -       | -       | -    | -    | 34,0 | 30,4 | 33,8 | 32,5 | -   |
| 120                               | -       | -       | -    | -    | 33,1 | 29,0 | 32,2 | 30,9 | -   |
| 122                               | -       | -       | -    | -    | -    | 27,6 | 30,6 | 29,3 | -   |
| 126                               | -       | -       | -    | -    | -    | 24,9 | 27,5 | 26,2 | -   |
| 130                               | -       | -       | -    | -    | -    | 21,8 | 24,6 | 23,3 | -   |
| 134                               | -       | -       | -    | -    | -    | 18,4 | 21,3 | 20,4 | -   |
| 138                               | -       | -       | -    | -    | -    | 14,8 | 17,4 | 17,2 | -   |
| 142                               | -       | -       | -    | -    | -    | 11,8 | 13,2 | 13,0 | -   |
| 145                               | -       | -       | -    | -    | -    | 9,8  | 10,8 | 9,9  | -   |

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|-----|
| 84 m + 84 m                                      |         |         |      |      |      |      |      |      |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 27                                               | 43,7    | 45,0    | -    | -    | -    | -    | -    | -    | -   |
| 28                                               | 43,6    | 44,8    | -    | -    | -    | -    | -    | -    | -   |
| 30                                               | 43,3    | 44,4    | -    | -    | -    | -    | -    | -    | -   |
| 34                                               | 42,3    | 44,2*   | -    | -    | -    | -    | -    | -    | -   |
| 38                                               | 38,0    | 43,6*   | -    | -    | -    | -    | -    | -    | -   |
| 40                                               | 35,7    | 43,2*   | -    | -    | -    | 42,9 | 56,5 | 58,5 | -   |
| 42                                               | 33,4    | 42,8*   | -    | -    | -    | 42,7 | 56,5 | 58,5 | -   |
| 46                                               | 29,5    | 42,0*   | -    | -    | -    | 42,4 | 56,2 | 58,1 | -   |
| 50                                               | 26,0    | 41,0*   | -    | -    | -    | 42,0 | 55,6 | 57,5 | -   |
| 54                                               | 23,1    | 40,0*   | -    | -    | -    | 41,4 | 55,0 | 56,5 | -   |
| 58                                               | 20,5    | 38,8*   | -    | -    | -    | 40,7 | 54,0 | 55,5 | -   |
| 61                                               | 18,7    | 37,9*   | 37,8 | -    | -    | 40,2 | 53,2 | 54,7 | -   |
| 62                                               | 18,1    | 37,7*   | 37,8 | -    | -    | 40,0 | 53,0 | 54,5 | -   |
| 66                                               | 16,1    | 36,6*   | 37,8 | -    | -    | 39,3 | 52,0 | 53,5 | -   |
| 70                                               | 14,2    | 35,4*   | 37,8 | -    | -    | 38,4 | 51,2 | 52,6 | -   |
| 74                                               | 12,5    | 34,2*   | 37,8 | -    | -    | 37,5 | 50,0 | 51,3 | -   |
| 78                                               | 11,0    | 33,1*   | 37,7 | -    | -    | 36,6 | 49,2 | 50,0 | -   |
| 82                                               | 9,7     | 32,0*   | 37,3 | -    | -    | 35,6 | 48,1 | 49,1 | -   |
| 86                                               | 8,4     | 31,0*   | 36,9 | -    | -    | 34,7 | 47,0 | 48,1 | -   |
| 88                                               | 7,9     | 30,5*   | 36,5 | 30,3 | -    | 34,2 | 46,5 | 47,6 | -   |
| 90                                               | 5,2*    | 30,0*   | 36,2 | 30,3 | -    | 33,7 | 46,0 | 47,1 | -   |
| 91                                               | 4,9*    | 29,7*   | 36,0 | 30,3 | -    | 33,4 | 45,7 | 46,8 | -   |
| 94                                               | -       | -       | 35,4 | 30,3 | -    | 32,7 | 44,9 | 45,9 | -   |
| 98                                               | -       | -       | 34,5 | 30,3 | -    | 31,8 | 43,8 | 44,7 | -   |
| 102                                              | -       | -       | 33,5 | 30,3 | -    | 30,9 | 42,8 | 43,7 | -   |
| 105                                              | -       | -       | 32,7 | 30,3 | -    | 29,9 | 41,6 | 42,0 | -   |
| 106                                              | -       | -       | -    | 30,3 | -    | 29,7 | 41,2 | 41,4 | -   |
| 110                                              | -       | -       | -    | 30,3 | -    | 28,6 | 39,1 | 38,6 | -   |
| 112                                              | -       | -       | -    | 30,3 | 24,3 | 28,1 | 37,7 | 36,9 | -   |
| 114                                              | -       | -       | -    | 30,3 | 24,3 | 27,6 | 36,3 | 35,3 | -   |
| 118                                              | -       | -       | -    | 30,0 | 24,3 | 26,2 | 33,1 | 32,1 | -   |
| 119                                              | -       | -       | -    | 30,0 | 24,3 | 26,0 | 32,3 | 31,3 | -   |
| 122                                              | -       | -       | -    | -    | 24,3 | 25,1 | 30,1 | 29,0 | -   |
| 126                                              | -       | -       | -    | -    | 24,1 | 24,1 | 27,1 | 26,1 | -   |
| 130                                              | -       | -       | -    | -    | 24,1 | 22,1 | 24,3 | 23,3 | -   |
| 132                                              | -       | -       | -    | -    | 24,1 | 21,2 | 23,0 | 21,9 | -   |
| 134                                              | -       | -       | -    | -    | -    | 20,0 | 21,7 | 20,6 | -   |
| 138                                              | -       | -       | -    | -    | -    | 17,7 | 19,1 | 18,0 | -   |
| 142                                              | -       | -       | -    | -    | -    | 14,5 | 16,7 | 15,5 | -   |
| 146                                              | -       | -       | -    | -    | -    | 11,3 | 14,0 | 12,9 | -   |
| 150                                              | -       | -       | -    | -    | -    | 8,2  | 10,7 | 10,2 | -   |
| 154                                              | -       | -       | -    | -    | -    | 5,8  | 7,1  | 6,6  | -   |
| 156                                              | -       | -       | -    | -    | -    | 4,6  | 5,3  | 4,7  | -   |

| 84 m + 96 m                       |         |         |      |      |      |      |      |      |     |
|-----------------------------------|---------|---------|------|------|------|------|------|------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |     |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 30                                | 32,0    | 33,0    | -    | -    | -    | -    | -    | -    | -   |
| 34                                | 31,6    | 32,5    | -    | -    | -    | -    | -    | -    | -   |
| 38                                | 31,2    | 32,2*   | -    | -    | -    | -    | -    | -    | -   |
| 42                                | 29,9    | 31,8*   | -    | -    | -    | -    | -    | -    | -   |
| 44                                | 27,9    | 31,5*   | -    | -    | -    | 31,3 | 40,8 | -    | -   |
| 46                                | 26,0    | 31,2*   | -    | -    | -    | 31,1 | 40,6 | 41,8 | -   |
| 50                                | 22,8    | 30,7*   | -    | -    | -    | 30,8 | 40,2 | 41,6 | -   |
| 54                                | 19,8    | 30,0*   | -    | -    | -    | 30,5 | 39,9 | 41,3 | -   |
| 58                                | 17,3    | 29,3*   | -    | -    | -    | 29,9 | 39,1 | 40,5 | -   |
| 62                                | 15,0    | 28,6*   | -    | -    | -    | 29,3 | 38,4 | 39,6 | -   |
| 66                                | 13,0    | 27,8*   | 26,3 | -    | -    | 28,7 | 37,7 | 38,8 | -   |
| 70                                | 11,2    | 27,1*   | 26,3 | -    | -    | 28,0 | 37,0 | 37,9 | -   |
| 74                                | 9,6     | 26,3*   | 26,3 | -    | -    | 27,3 | 36,2 | 37,0 | -   |
| 78                                | 8,0     | 25,5*   | 26,3 | -    | -    | 26,6 | 35,5 | 36,2 | -   |
| 82                                | 6,7     | 24,7*   | 26,3 | -    | -    | 25,9 | 34,8 | 35,2 | -   |
| 86                                | 5,5     | 23,9*   | 26,3 | -    | -    | 25,1 | 33,8 | 34,2 | -   |
| 90                                | 4,3     | 23,1*   | 26,2 | -    | -    | 24,4 | 32,7 | 33,3 | -   |
| 91                                | 4,0     | 22,9*   | 26,2 | -    | -    | 24,2 | 32,4 | 33,0 | -   |
| 94                                | -       | 22,4*   | 26,2 | -    | -    | 23,7 | 31,6 | 32,3 | -   |
| 95                                | -       | 22,2*   | 26,2 | 20,0 | -    | 23,5 | 31,3 | 32,1 | -   |
| 98                                | -       | 21,7*   | 25,9 | 20,0 | -    | 22,9 | 30,6 | 31,3 | -   |
| 99                                | -       | 21,5*   | 25,7 | 20,0 | -    | 22,8 | 30,3 | 31,1 | -   |
| 102                               | -       | 21,0*   | 25,4 | 20,0 | -    | 22,2 | 29,6 | 30,3 | -   |
| 106                               | -       | -       | 24,9 | 20,0 | -    | 21,5 | 28,5 | 29,2 | -   |
| 110                               | -       | -       | 24,4 | 20,0 | -    | 20,7 | 27,5 | 28,3 | -   |
| 114                               | -       | -       | 23,8 | 20,0 | -    | 20,0 | 26,5 | 27,4 | -   |
| 117                               | -       | -       | 23,4 | 20,0 | -    | 19,4 | 25,5 | 26,2 | -   |
| 118                               | -       | -       | -    | 20,0 | -    | 19,2 | 25,2 | 25,8 | -   |
| 121                               | -       | -       | -    | 20,0 | 15,2 | 18,7 | 24,3 | 24,8 | -   |
| 122                               | -       | -       | -    | 20,0 | 15,2 | 18,5 | 24,0 | 24,4 | -   |
| 126                               | -       | -       | -    | 20,0 | 15,2 | 17,6 | 22,8 | 23,0 | -   |
| 130                               | -       | -       | -    | 20,0 | 15,2 | 16,9 | 21,6 | 21,6 | -   |
| 134                               | -       | -       | -    | -    | 15,1 | 15,9 | 20,1 | 19,7 | -   |
| 138                               | -       | -       | -    | -    | 15,1 | 15,1 | 18,4 | 17,4 | -   |
| 142                               | -       | -       | -    | -    | 15,1 | 14,2 | 16,0 | 15,0 | -   |
| 143                               | -       | -       | -    | -    | 15,1 | 14,0 | 15,4 | 14,4 | -   |
| 146                               | -       | -       | -    | -    | -    | 13,2 | 13,8 | 12,8 | -   |
| 150                               | -       | -       | -    | -    | -    | 11,1 | 11,7 | 10,6 | -   |
| 154                               | -       | -       | -    | -    | -    | 8,3  | 9,6  | 8,5  | -   |
| 158                               | -       | -       | -    | -    | -    | 5,4  | 7,2  | 6,3  | -   |
| 161                               | -       | -       | -    | -    | -    | 4,1  | 5,1  | 4,5  | -   |
| 162                               | -       | -       | -    | -    | -    | -    | 4,5  | -    | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |       |       |      |       |       |       |     |
|--------------------------------------------------|---------|---------|-------|-------|------|-------|-------|-------|-----|
| 90 m + 24 m                                      |         |         |       |       |      |       |       |       |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |       |       |      |       |       |       |     |
| 0 t 0 t-325 t                                    |         |         |       |       |      |       |       |       |     |
| m                                                | 87°/85° | 87°/85° | 75°   | 65°   | 55°  | 15°   | 15°   | 15°   | 15° |
| t                                                | t       | t       | t     | t     | t    | t     | t     | t     | t   |
| 14                                               | 141,0   | 157,0   | -     | -     | -    | -     | -     | -     | -   |
| 16                                               | 127,0   | 153,0   | -     | -     | -    | -     | -     | -     | -   |
| 18                                               | 115,0   | 158,0*  | -     | -     | -    | -     | -     | -     | -   |
| 20                                               | 105,0   | 154,0*  | -     | -     | -    | 153,0 | -     | -     | -   |
| 22                                               | 97,5    | 150,0*  | -     | -     | -    | 152,0 | 202,0 | 216,0 | -   |
| 24                                               | 90,0    | 145,0*  | -     | -     | -    | 152,0 | 202,0 | 215,0 | -   |
| 26                                               | 84,0    | 141,0*  | -     | -     | -    | 151,0 | 199,0 | 214,0 | -   |
| 28                                               | 78,5    | 136,0*  | -     | -     | -    | 150,0 | 199,0 | 214,0 | -   |
| 30                                               | 74,0    | 131,0*  | -     | -     | -    | 149,0 | 197,0 | 212,0 | -   |
| 33                                               | 62,0*   | 126,0*  | -     | -     | -    | 147,0 | 194,0 | 208,0 | -   |
| 34                                               | -       | -       | -     | -     | -    | 146,3 | 194,0 | 208,0 | -   |
| 38                                               | -       | -       | 144,0 | -     | -    | 143,0 | 190,6 | 200,6 | -   |
| 42                                               | -       | -       | 137,0 | -     | -    | 139,0 | 186,0 | 186,0 | -   |
| 46                                               | -       | -       | 129,0 | -     | -    | 135,0 | 167,3 | 166,6 | -   |
| 49                                               | -       | -       | 122,0 | -     | -    | 130,5 | 154,1 | 153,1 | -   |
| 50                                               | -       | -       | -     | -     | -    | 129,0 | 150,3 | 149,3 | -   |
| 54                                               | -       | -       | -     | -     | -    | 123,0 | 135,0 | 134,0 | -   |
| 57                                               | -       | -       | -     | 114,0 | -    | 114,0 | 125,5 | 124,5 | -   |
| 58                                               | -       | -       | -     | 111,0 | -    | 111,0 | 122,3 | 121,3 | -   |
| 62                                               | -       | -       | -     | 103,0 | -    | 100,1 | 110,6 | 109,0 | -   |
| 63                                               | -       | -       | -     | 101,0 | -    | 97,7  | 108,0 | 106,6 | -   |
| 66                                               | -       | -       | -     | -     | -    | 90,5  | 101,0 | 99,5  | -   |
| 70                                               | -       | -       | -     | -     | -    | 82,5  | 92,3  | 91,1  | -   |
| 74                                               | -       | -       | -     | -     | 75,5 | 75,1  | 84,3  | 83,3  | -   |
| 77                                               | -       | -       | -     | -     | 72,0 | 70,1  | 78,8  | 77,8  | -   |
| 78                                               | -       | -       | -     | -     | -    | 68,5  | 77,0  | 76,0  | -   |
| 82                                               | -       | -       | -     | -     | -    | 62,8  | 70,6  | 69,6  | -   |
| 86                                               | -       | -       | -     | -     | -    | 57,3  | 65,1  | 63,5  | -   |
| 90                                               | -       | -       | -     | -     | -    | 52,0  | 59,5  | 57,5  | -   |
| 94                                               | -       | -       | -     | -     | -    | 47,7  | 53,0  | 51,5  | -   |
| 98                                               | -       | -       | -     | -     | -    | 42,3  | 46,2  | 45,0  | -   |
| 102                                              | -       | -       | -     | -     | -    | 35,7  | 39,0  | 37,8  | -   |
| 103                                              | -       | -       | -     | -     | -    | 34,1  | 37,3  | 36,0  | -   |

| 90 m + 36 m                       |         |         |       |      |      |       |       |       |     |
|-----------------------------------|---------|---------|-------|------|------|-------|-------|-------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |       |      |      |       |       |       |     |
| 0 t 0 t-325 t                     |         |         |       |      |      |       |       |       |     |
| m                                 | 87°/85° | 87°/85° | 75°   | 65°  | 55°  | 15°   | 15°   | 15°   | 15° |
| t                                 | t       | t       | t     | t    | t    | t     | t     | t     | t   |
| 17                                | 112,0   | 120,0   | -     | -    | -    | -     | -     | -     | -   |
| 18                                | 107,0   | 118,0   | -     | -    | -    | -     | -     | -     | -   |
| 20                                | 97,5    | 116,0   | -     | -    | -    | -     | -     | -     | -   |
| 22                                | 90,0    | 119,0*  | -     | -    | -    | -     | -     | -     | -   |
| 24                                | 83,0    | 117,0*  | -     | -    | -    | 116,0 | -     | -     | -   |
| 26                                | 77,5    | 114,0*  | -     | -    | -    | 115,0 | 156,0 | 165,0 | -   |
| 28                                | 72,0    | 112,0*  | -     | -    | -    | 115,0 | 156,0 | 165,0 | -   |
| 30                                | 67,5    | 109,0*  | -     | -    | -    | 115,0 | 156,0 | 164,0 | -   |
| 34                                | 60,0    | 103,0*  | -     | -    | -    | 113,6 | 153,0 | 163,0 | -   |
| 38                                | 53,5    | 97,0*   | -     | -    | -    | 112,0 | 151,0 | 161,0 | -   |
| 42                                | 48,7    | 92,0*   | -     | -    | -    | 110,0 | 151,0 | 161,0 | -   |
| 43                                | 43,2*   | 91,1*   | 109,0 | -    | -    | 109,3 | 148,3 | 159,0 | -   |
| 45                                | 41,2*   | 89,5*   | 107,0 | -    | -    | 108,0 | 148,0 | 157,0 | -   |
| 46                                | -       | -       | 106,0 | -    | -    | 107,3 | 148,0 | 156,0 | -   |
| 50                                | -       | -       | 102,0 | -    | -    | 104,6 | 144,3 | 148,0 | -   |
| 54                                | -       | -       | 97,5  | -    | -    | 102,0 | 137,0 | 136,0 | -   |
| 58                                | -       | -       | 92,0  | -    | -    | 98,3  | 124,3 | 123,3 | -   |
| 60                                | -       | -       | 89,0  | -    | -    | 96,5  | 118,0 | 117,0 | -   |
| 62                                | -       | -       | -     | -    | -    | 94,6  | 112,6 | 111,8 | -   |
| 63                                | -       | -       | -     | 92,0 | -    | 93,7  | 110,0 | 109,2 | -   |
| 66                                | -       | -       | -     | 90,5 | -    | 91,0  | 102,0 | 101,0 | -   |
| 70                                | -       | -       | -     | 86,0 | -    | 83,6  | 93,6  | 92,6  | -   |
| 74                                | -       | -       | -     | 81,0 | -    | 76,6  | 85,8  | 84,8  | -   |
| 75                                | -       | -       | -     | 80,0 | -    | 75,0  | 84,0  | 83,0  | -   |
| 78                                | -       | -       | -     | -    | -    | 70,0  | 78,5  | 77,5  | -   |
| 82                                | -       | -       | -     | -    | 64,0 | 64,1  | 72,1  | 71,1  | -   |
| 86                                | -       | -       | -     | -    | 60,5 | 58,8  | 66,3  | 65,0  | -   |
| 89                                | -       | -       | -     | -    | 58,0 | 54,8  | 62,3  | 60,8  | -   |
| 90                                | -       | -       | -     | -    | -    | 53,5  | 61,0  | 59,5  | -   |
| 94                                | -       | -       | -     | -    | -    | 48,9  | 55,6  | 54,1  | -   |
| 98                                | -       | -       | -     | -    | -    | 44,6  | 50,6  | 49,1  | -   |
| 102                               | -       | -       | -     | -    | -    | 40,6  | 46,0  | 44,3  | -   |
| 106                               | -       | -       | -     | -    | -    | 36,4  | 40,7  | 39,4  | -   |
| 110                               | -       | -       | -     | -    | -    | 31,6  | 34,9  | 33,8  | -   |
| 114                               | -       | -       | -     | -    | -    | 26,1  | 28,9  | 27,8  | -   |
| 115                               | -       | -       | -     | -    | -    | 25,1  | 27,6  | 26,3  | -   |

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |       |       |     |
|--------------------------------------------------|---------|---------|------|------|------|------|-------|-------|-----|
| 90 m + 48 m                                      |         |         |      |      |      |      |       |       |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |       |       |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |       |       |     |
| m                                                | t       | t       | t    | t    | t    | t    | t     | t     | t   |
|                                                  | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°   | 15°   | 15° |
| 19                                               | 90,0    | 92,5    | -    | -    | -    | -    | -     | -     | -   |
| 20                                               | 89,0    | 92,0    | -    | -    | -    | -    | -     | -     | -   |
| 22                                               | 83,0    | 90,5    | -    | -    | -    | -    | -     | -     | -   |
| 24                                               | 76,5    | 92,5*   | -    | -    | -    | -    | -     | -     | -   |
| 26                                               | 71,0    | 91,0*   | -    | -    | -    | -    | -     | -     | -   |
| 28                                               | 66,5    | 90,0*   | -    | -    | -    | 88,5 | -     | -     | -   |
| 30                                               | 62,0    | 88,0*   | -    | -    | -    | 88,5 | 120,0 | 127,0 | -   |
| 34                                               | 54,5    | 84,5*   | -    | -    | -    | 88,1 | 120,0 | 127,0 | -   |
| 38                                               | 48,7    | 81,0*   | -    | -    | -    | 87,3 | 119,0 | 125,6 | -   |
| 42                                               | 43,6    | 77,0*   | -    | -    | -    | 86,0 | 119,0 | 125,0 | -   |
| 46                                               | 39,4    | 73,5*   | -    | -    | -    | 84,6 | 118,0 | 124,0 | -   |
| 47                                               | 38,5    | 72,6*   | 83,5 | -    | -    | 84,3 | 118,0 | 124,0 | -   |
| 50                                               | 35,8    | 70,0*   | 83,0 | -    | -    | 83,0 | 115,6 | 122,3 | -   |
| 53                                               | 33,5    | 67,7*   | 81,5 | -    | -    | 81,5 | 115,1 | 120,5 | -   |
| 54                                               | 29,1*   | 67,0*   | 81,0 | -    | -    | 81,0 | 115,0 | 120,0 | -   |
| 56                                               | 27,9*   | 66,0*   | 79,7 | -    | -    | 80,0 | 114,3 | 118,3 | -   |
| 58                                               | -       | -       | 78,5 | -    | -    | 79,0 | 113,6 | 116,6 | -   |
| 62                                               | -       | -       | 75,5 | -    | -    | 76,8 | 109,6 | 111,0 | -   |
| 66                                               | -       | -       | 72,5 | -    | -    | 74,5 | 103,0 | 103,0 | -   |
| 70                                               | -       | -       | 69,0 | 68,5 | -    | 72,1 | 94,7  | 94,0  | -   |
| 72                                               | -       | -       | 67,5 | 68,0 | -    | 71,0 | 90,5  | 90,0  | -   |
| 74                                               | -       | -       | -    | 67,5 | -    | 69,1 | 86,8  | 86,1  | -   |
| 78                                               | -       | -       | -    | 65,5 | -    | 66,5 | 79,5  | 78,5  | -   |
| 82                                               | -       | -       | -    | 62,5 | -    | 64,1 | 73,1  | 72,1  | -   |
| 86                                               | -       | -       | -    | 59,5 | -    | 59,8 | 67,2  | 66,0  | -   |
| 87                                               | -       | -       | -    | 58,5 | -    | 58,5 | 65,8  | 64,5  | -   |
| 90                                               | -       | -       | -    | -    | -    | 54,5 | 61,5  | 60,0  | -   |
| 91                                               | -       | -       | -    | -    | 53,0 | 53,3 | 60,2  | 58,7  | -   |
| 94                                               | -       | -       | -    | -    | 51,0 | 49,9 | 56,5  | 55,0  | -   |
| 98                                               | -       | -       | -    | -    | 48,3 | 45,6 | 51,6  | 50,2  | -   |
| 100                                              | -       | -       | -    | -    | 47,0 | 43,6 | 49,3  | 47,9  | -   |
| 102                                              | -       | -       | -    | -    | -    | 41,6 | 47,0  | 45,6  | -   |
| 106                                              | -       | -       | -    | -    | -    | 37,9 | 42,7  | 41,2  | -   |
| 110                                              | -       | -       | -    | -    | -    | 34,4 | 38,6  | 37,1  | -   |
| 114                                              | -       | -       | -    | -    | -    | 31,2 | 34,8  | 33,3  | -   |
| 118                                              | -       | -       | -    | -    | -    | 27,2 | 30,1  | 29,3  | -   |
| 122                                              | -       | -       | -    | -    | -    | 22,6 | 25,2  | 24,2  | -   |
| 126                                              | -       | -       | -    | -    | -    | 18,5 | 20,1  | 19,1  | -   |
| 127                                              | -       | -       | -    | -    | -    | 17,9 | 19,3  | 17,8  | -   |

| 90 m + 60 m                       |         |         |      |      |      |      |      |      |     |
|-----------------------------------|---------|---------|------|------|------|------|------|------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |     |
| m                                 | t       | t       | t    | t    | t    | t    | t    | t    | t   |
|                                   | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 22                                | 69,0    | 70,5    | -    | -    | -    | -    | -    | -    | -   |
| 24                                | 68,0    | 69,5    | -    | -    | -    | -    | -    | -    | -   |
| 26                                | 65,5    | 69,0    | -    | -    | -    | -    | -    | -    | -   |
| 28                                | 61,0    | 70,0*   | -    | -    | -    | -    | -    | -    | -   |
| 30                                | 57,0    | 69,0*   | -    | -    | -    | -    | -    | -    | -   |
| 32                                | 53,5    | 68,0*   | -    | -    | -    | 67,5 | 92,5 | 96,5 | -   |
| 34                                | 50,0    | 67,0*   | -    | -    | -    | 67,2 | 92,5 | 96,5 | -   |
| 38                                | 44,4    | 65,0*   | -    | -    | -    | 66,8 | 92,5 | 96,3 | -   |
| 42                                | 39,6    | 62,5*   | -    | -    | -    | 66,5 | 92,5 | 96,0 | -   |
| 46                                | 35,5    | 60,0*   | -    | -    | -    | 65,5 | 91,3 | 95,0 | -   |
| 50                                | 32,0    | 58,0*   | -    | -    | -    | 64,5 | 90,5 | 93,8 | -   |
| 53                                | 29,6    | 56,1*   | 62,5 | -    | -    | 63,7 | 89,7 | 92,8 | -   |
| 54                                | 28,9    | 55,5*   | 62,5 | -    | -    | 63,5 | 89,5 | 92,5 | -   |
| 58                                | 26,2    | 53,0*   | 62,0 | -    | -    | 61,9 | 87,6 | 90,8 | -   |
| 62                                | 23,9    | 51,0*   | 60,5 | -    | -    | 60,3 | 86,1 | 89,1 | -   |
| 65                                | 22,4    | 49,5*   | 59,5 | -    | -    | 59,3 | 84,9 | 87,9 | -   |
| 66                                | 18,8*   | 49,0*   | 59,0 | -    | -    | 59,0 | 84,5 | 87,5 | -   |
| 68                                | 17,9*   | 48,2*   | 58,0 | -    | -    | 58,0 | 83,1 | 85,8 | -   |
| 70                                | -       | -       | 57,0 | -    | -    | 57,0 | 81,5 | 84,0 | -   |
| 74                                | -       | -       | 55,0 | -    | -    | 55,1 | 77,8 | 80,0 | -   |
| 77                                | -       | -       | 53,5 | 52,0 | -    | 53,9 | 75,3 | 77,0 | -   |
| 78                                | -       | -       | 53,0 | 52,0 | -    | 53,5 | 74,5 | 76,0 | -   |
| 82                                | -       | -       | 50,5 | 52,0 | -    | 51,5 | 70,8 | 70,6 | -   |
| 83                                | -       | -       | 49,8 | 51,6 | -    | 51,0 | 69,9 | 69,3 | -   |
| 86                                | -       | -       | -    | 50,5 | -    | 49,7 | 66,1 | 65,2 | -   |
| 90                                | -       | -       | -    | 49,3 | -    | 48,2 | 60,5 | 59,5 | -   |
| 94                                | -       | -       | -    | 47,2 | -    | 45,9 | 55,1 | 54,1 | -   |
| 98                                | -       | -       | -    | 44,8 | -    | 43,8 | 50,4 | 49,3 | -   |
| 99                                | -       | -       | -    | -    | 41,6 | 43,3 | 49,4 | 48,3 | -   |
| 102                               | -       | -       | -    | -    | 41,5 | 41,7 | 46,4 | 45,1 | -   |
| 106                               | -       | -       | -    | -    | 40,4 | 38,6 | 42,3 | 41,0 | -   |
| 110                               | -       | -       | -    | -    | 38,4 | 35,1 | 38,4 | 37,1 | -   |
| 112                               | -       | -       | -    | -    | 37,4 | 33,5 | 36,5 | 35,2 | -   |
| 114                               | -       | -       | -    | -    | -    | 31,9 | 34,7 | 33,4 | -   |
| 118                               | -       | -       | -    | -    | -    | 28,8 | 31,3 | 29,8 | -   |
| 122                               | -       | -       | -    | -    | -    | 25,9 | 28,0 | 26,6 | -   |
| 126                               | -       | -       | -    | -    | -    | 22,9 | 24,9 | 23,5 | -   |
| 130                               | -       | -       | -    | -    | -    | 19,0 | 21,8 | 20,5 | -   |
| 134                               | -       | -       | -    | -    | -    | 14,9 | 17,4 | 16,8 | -   |
| 138                               | -       | -       | -    | -    | -    | 12,4 | 13,0 | 12,4 | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |  |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|--|
| 90 m + 72 m                                      |         |         |      |      |      |      |      |      |  |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |      |  |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |  |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  |  |
| 25                                               | 52,5    | 54,0    | -    | -    | -    | -    | -    | -    |  |
| 26                                               | 52,5    | 54,0    | -    | -    | -    | -    | -    | -    |  |
| 28                                               | 52,0    | 53,0    | -    | -    | -    | -    | -    | -    |  |
| 30                                               | 51,0    | 53,5*   | -    | -    | -    | -    | -    | -    |  |
| 34                                               | 45,8    | 53,0*   | -    | -    | -    | -    | -    | -    |  |
| 36                                               | 43,0    | 52,2*   | -    | -    | -    | 51,5 | 70,0 | 73,0 |  |
| 38                                               | 40,3    | 51,5*   | -    | -    | -    | 51,5 | 70,0 | 73,0 |  |
| 42                                               | 35,6    | 50,0*   | -    | -    | -    | 51,5 | 70,0 | 73,0 |  |
| 46                                               | 31,7    | 48,9*   | -    | -    | -    | 50,8 | 69,6 | 72,3 |  |
| 50                                               | 28,3    | 47,3*   | -    | -    | -    | 50,1 | 69,0 | 71,5 |  |
| 54                                               | 25,3    | 45,7*   | -    | -    | -    | 49,4 | 68,0 | 70,5 |  |
| 58                                               | 22,7    | 44,0*   | 46,9 | -    | -    | 48,6 | 67,3 | 69,5 |  |
| 62                                               | 20,4    | 42,3*   | 46,9 | -    | -    | 47,5 | 66,3 | 68,5 |  |
| 66                                               | 18,4    | 40,7*   | 46,8 | -    | -    | 46,5 | 65,0 | 67,5 |  |
| 70                                               | 16,5    | 39,2*   | 46,1 | -    | -    | 45,3 | 63,8 | 66,0 |  |
| 74                                               | 14,9    | 37,7*   | 45,0 | -    | -    | 44,1 | 62,3 | 64,1 |  |
| 76                                               | 14,2    | 37,0*   | 44,5 | -    | -    | 43,5 | 61,6 | 63,3 |  |
| 78                                               | 10,8*   | 36,4*   | 44,0 | -    | -    | 42,9 | 61,0 | 62,5 |  |
| 79                                               | 10,5*   | 36,1*   | 43,6 | -    | -    | 42,6 | 60,5 | 62,0 |  |
| 82                                               | -       | -       | 42,7 | -    | -    | 41,6 | 59,3 | 60,8 |  |
| 84                                               | -       | -       | 41,9 | 38,3 | -    | 41,0 | 58,5 | 60,0 |  |
| 86                                               | -       | -       | 41,2 | 38,3 | -    | 40,3 | 57,7 | 59,0 |  |
| 90                                               | -       | -       | 39,7 | 38,3 | -    | 39,0 | 56,0 | 57,0 |  |
| 94                                               | -       | -       | 38,1 | 38,3 | -    | 37,6 | 53,3 | 53,3 |  |
| 95                                               | -       | -       | 37,6 | 38,1 | -    | 37,3 | 52,6 | 52,4 |  |
| 98                                               | -       | -       | -    | 37,6 | -    | 36,2 | 49,8 | 49,1 |  |
| 102                                              | -       | -       | -    | 36,7 | -    | 34,9 | 45,5 | 44,5 |  |
| 106                                              | -       | -       | -    | 35,4 | -    | 33,0 | 41,6 | 40,6 |  |
| 108                                              | -       | -       | -    | 34,5 | 30,4 | 32,3 | 39,8 | 38,8 |  |
| 110                                              | -       | -       | -    | 33,7 | 30,4 | 31,5 | 38,0 | 37,0 |  |
| 114                                              | -       | -       | -    | -    | 30,1 | 29,9 | 34,6 | 33,5 |  |
| 118                                              | -       | -       | -    | -    | 29,7 | 28,3 | 31,3 | 30,1 |  |
| 122                                              | -       | -       | -    | -    | 28,5 | 26,2 | 28,1 | 26,9 |  |
| 123                                              | -       | -       | -    | -    | 28,1 | 25,6 | 27,4 | 26,2 |  |
| 126                                              | -       | -       | -    | -    | -    | 23,7 | 25,1 | 23,9 |  |
| 130                                              | -       | -       | -    | -    | -    | 21,2 | 22,2 | 21,0 |  |
| 134                                              | -       | -       | -    | -    | -    | 18,4 | 19,5 | 18,3 |  |
| 138                                              | -       | -       | -    | -    | -    | 15,3 | 16,9 | 15,7 |  |
| 142                                              | -       | -       | -    | -    | -    | 11,8 | 14,3 | 13,0 |  |
| 146                                              | -       | -       | -    | -    | -    | 8,8  | 10,7 | 9,8  |  |
| 150                                              | -       | -       | -    | -    | -    | 6,3  | 6,9  | 6,0  |  |

| 90 m + 84 m                       |         |         |      |      |      |      |      |      |  |
|-----------------------------------|---------|---------|------|------|------|------|------|------|--|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |  |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |  |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  |  |
| 27                                | 39,9    | 41,2    | -    | -    | -    | -    | -    | -    |  |
| 28                                | 39,8    | 41,0    | -    | -    | -    | -    | -    | -    |  |
| 30                                | 39,5    | 40,5    | -    | -    | -    | -    | -    | -    |  |
| 34                                | 38,9    | 40,4*   | -    | -    | -    | -    | -    | -    |  |
| 38                                | 36,1    | 39,8*   | -    | -    | -    | -    | -    | -    |  |
| 40                                | 33,8    | 39,4*   | -    | -    | -    | 38,9 | 52,5 | 54,5 |  |
| 42                                | 31,6    | 39,0*   | -    | -    | -    | 38,8 | 52,5 | 54,5 |  |
| 46                                | 27,9    | 38,1*   | -    | -    | -    | 38,4 | 52,2 | 54,2 |  |
| 50                                | 24,6    | 37,1*   | -    | -    | -    | 38,0 | 51,8 | 53,6 |  |
| 54                                | 21,7    | 36,1*   | -    | -    | -    | 37,6 | 51,5 | 53,0 |  |
| 58                                | 19,2    | 35,0*   | -    | -    | -    | 36,9 | 50,5 | 52,3 |  |
| 62                                | 17,0    | 33,8*   | -    | -    | -    | 36,2 | 49,7 | 51,5 |  |
| 63                                | 16,5    | 33,5*   | 34,1 | -    | -    | 36,0 | 49,5 | 51,2 |  |
| 66                                | 15,0    | 32,7*   | 34,1 | -    | -    | 35,5 | 49,1 | 50,5 |  |
| 70                                | 13,2    | 31,6*   | 34,1 | -    | -    | 34,6 | 48,2 | 49,5 |  |
| 74                                | 11,6    | 30,4*   | 34,1 | -    | -    | 33,7 | 47,2 | 48,5 |  |
| 78                                | 10,1    | 29,3*   | 33,9 | -    | -    | 32,9 | 46,2 | 47,5 |  |
| 82                                | 8,8     | 28,3*   | 33,3 | -    | -    | 31,9 | 45,1 | 46,4 |  |
| 86                                | 7,6     | 27,3*   | 32,7 | -    | -    | 31,0 | 44,1 | 45,3 |  |
| 88                                | 7,1     | 26,8*   | 32,3 | -    | -    | 30,5 | 43,6 | 44,8 |  |
| 90                                | 4,1*    | 26,4*   | 31,9 | -    | -    | 30,0 | 43,1 | 44,3 |  |
| 91                                | -       | 26,1*   | 31,6 | 26,8 | -    | 29,7 | 42,8 | 44,0 |  |
| 94                                | -       | -       | 31,0 | 26,8 | -    | 29,0 | 42,1 | 43,2 |  |
| 98                                | -       | -       | 30,1 | 26,8 | -    | 28,1 | 41,2 | 42,2 |  |
| 102                               | -       | -       | 29,1 | 26,8 | -    | 27,1 | 40,2 | 41,2 |  |
| 106                               | -       | -       | 28,0 | 26,8 | -    | 26,1 | 39,2 | 39,5 |  |
| 107                               | -       | -       | 27,7 | 26,8 | -    | 25,9 | 39,0 | 38,6 |  |
| 110                               | -       | -       | -    | 26,8 | -    | 25,0 | 36,7 | 36,0 |  |
| 114                               | -       | -       | -    | 26,2 | -    | 23,8 | 33,5 | 32,6 |  |
| 116                               | -       | -       | -    | 26,0 | 20,7 | 23,2 | 31,9 | 31,0 |  |
| 118                               | -       | -       | -    | 25,6 | 20,7 | 22,6 | 30,4 | 29,5 |  |
| 121                               | -       | -       | -    | 24,8 | 20,7 | 21,7 | 28,1 | 27,2 |  |
| 122                               | -       | -       | -    | -    | 20,7 | 21,3 | 27,4 | 26,5 |  |
| 126                               | -       | -       | -    | -    | 20,7 | 20,1 | 24,6 | 23,6 |  |
| 130                               | -       | -       | -    | -    | 20,4 | 18,9 | 21,9 | 20,8 |  |
| 134                               | -       | -       | -    | -    | 20,1 | 17,6 | 19,2 | 18,2 |  |
| 135                               | -       | -       | -    | -    | 19,8 | 17,3 | 18,6 | 17,5 |  |
| 138                               | -       | -       | -    | -    | -    | 16,3 | 16,7 | 15,6 |  |
| 142                               | -       | -       | -    | -    | -    | 13,9 | 14,3 | 13,2 |  |
| 146                               | -       | -       | -    | -    | -    | 11,0 | 12,1 | 10,8 |  |
| 150                               | -       | -       | -    | -    | -    | 8,0  | 9,9  | 8,7  |  |
| 154                               | -       | -       | -    | -    | -    | 5,0  | 7,4  | 6,5  |  |
| 156                               | -       | -       | -    | -    | -    | 4,1  | 6,2  | 5,4  |  |
| 157                               | -       | -       | -    | -    | -    | -    | 5,3  | 4,5  |  |
| 158                               | -       | -       | -    | -    | -    | -    | 4,5  | -    |  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |       |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|-------|------|------|------|------|------|------|-----|
| 90 m + 96 m                                      |         |       |      |      |      |      |      |      |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |       |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |       |      |      |      |      |      |      |     |
| m                                                | t       | t     | t    | t    | t    | t    | t    | t    | t   |
| 87°/85°                                          | 87°/85° | 75°   | 65°  | 55°  | 15°  | 15°  | 15°  | 15°  | 15° |
| 30                                               | 29,0    | 30,0  | -    | -    | -    | -    | -    | -    | -   |
| 34                                               | 28,6    | 29,5  | -    | -    | -    | -    | -    | -    | -   |
| 38                                               | 28,2    | 29,2* | -    | -    | -    | -    | -    | -    | -   |
| 42                                               | 27,2    | 28,8* | -    | -    | -    | -    | -    | -    | -   |
| 45                                               | 24,9    | 28,3* | -    | -    | -    | 28,2 | 38,0 | -    | -   |
| 46                                               | 24,2    | 28,2* | -    | -    | -    | 28,1 | 37,9 | -    | -   |
| 47                                               | 23,4    | 28,0* | -    | -    | -    | 28,0 | 37,8 | 39,2 | -   |
| 50                                               | 21,0    | 27,6* | -    | -    | -    | 27,7 | 37,7 | 39,1 | -   |
| 54                                               | 18,3    | 27,0* | -    | -    | -    | 27,5 | 37,5 | 38,9 | -   |
| 58                                               | 15,9    | 26,3* | -    | -    | -    | 27,0 | 36,9 | 38,3 | -   |
| 62                                               | 13,7    | 25,5* | -    | -    | -    | 26,4 | 36,3 | 37,6 | -   |
| 66                                               | 11,8    | 24,8* | -    | -    | -    | 25,8 | 35,7 | 36,8 | -   |
| 68                                               | 10,9    | 24,4* | 23,5 | -    | -    | 25,5 | 35,4 | 36,4 | -   |
| 70                                               | 10,0    | 24,0* | 23,5 | -    | -    | 25,2 | 35,0 | 36,0 | -   |
| 74                                               | 8,4     | 23,2* | 23,5 | -    | -    | 24,5 | 34,3 | 35,1 | -   |
| 78                                               | 7,0     | 22,4* | 23,5 | -    | -    | 23,9 | 33,5 | 34,3 | -   |
| 82                                               | 5,7     | 21,6* | 23,5 | -    | -    | 23,1 | 32,7 | 33,4 | -   |
| 86                                               | 4,5     | 20,8* | 23,4 | -    | -    | 22,4 | 31,8 | 32,5 | -   |
| 87                                               | 4,2     | 20,6* | 23,3 | -    | -    | 22,2 | 31,6 | 32,3 | -   |
| 90                                               | -       | 20,0* | 23,1 | -    | -    | 21,7 | 31,0 | 31,7 | -   |
| 94                                               | -       | 19,3* | 22,8 | -    | -    | 20,9 | 30,2 | 30,8 | -   |
| 97                                               | -       | 18,7* | 22,5 | 17,3 | -    | 20,4 | 29,6 | 30,1 | -   |
| 98                                               | -       | 18,6* | 22,5 | 17,3 | -    | 20,2 | 29,4 | 29,9 | -   |
| 99                                               | -       | 18,4* | 22,3 | 17,3 | -    | 20,0 | 29,2 | 29,7 | -   |
| 102                                              | -       | 17,9* | 22,0 | 17,3 | -    | 19,5 | 28,6 | 29,1 | -   |
| 103                                              | -       | 17,8* | 21,8 | 17,3 | -    | 19,3 | 28,3 | 28,8 | -   |
| 106                                              | -       | -     | 21,4 | 17,3 | -    | 18,8 | 27,7 | 28,2 | -   |
| 110                                              | -       | -     | 20,8 | 17,3 | -    | 18,0 | 26,9 | 27,4 | -   |
| 114                                              | -       | -     | 20,1 | 17,3 | -    | 17,3 | 26,1 | 26,5 | -   |
| 118                                              | -       | -     | 19,5 | 17,3 | -    | 16,5 | 25,1 | 25,2 | -   |
| 122                                              | -       | -     | -    | 17,3 | -    | 15,6 | 23,5 | 23,7 | -   |
| 125                                              | -       | -     | -    | 17,3 | 12,5 | 15,0 | 22,3 | 22,3 | -   |
| 126                                              | -       | -     | -    | 17,3 | 12,5 | 14,8 | 21,9 | 21,9 | -   |
| 130                                              | -       | -     | -    | 17,0 | 12,4 | 13,9 | 20,3 | 19,7 | -   |
| 133                                              | -       | -     | -    | 16,7 | 12,4 | 13,3 | 18,9 | 17,9 | -   |
| 134                                              | -       | -     | -    | -    | 12,4 | 13,0 | 18,3 | 17,3 | -   |
| 138                                              | -       | -     | -    | -    | 12,4 | 11,9 | 15,9 | 14,9 | -   |
| 142                                              | -       | -     | -    | -    | 12,4 | 11,0 | 13,6 | 12,6 | -   |
| 146                                              | -       | -     | -    | -    | 12,4 | 10,0 | 11,4 | 10,4 | -   |
| 147                                              | -       | -     | -    | -    | 12,2 | 9,8  | 10,9 | 9,8  | -   |
| 150                                              | -       | -     | -    | -    | -    | 9,0  | 9,3  | 8,2  | -   |
| 154                                              | -       | -     | -    | -    | -    | 6,7  | 7,3  | 6,2  | -   |
| 158                                              | -       | -     | -    | -    | -    | 4,2  | 5,3  | 4,2  | -   |
| 160                                              | -       | -     | -    | -    | -    | 4,4  | -    | -    | -   |

| 96 m + 24 m                       |         |        |       |       |      |       |       |       |     |
|-----------------------------------|---------|--------|-------|-------|------|-------|-------|-------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |        |       |       |      |       |       |       |     |
| 0 t 0 t-325 t                     |         |        |       |       |      |       |       |       |     |
| m                                 | t       | t      | t     | t     | t    | t     | t     | t     | t   |
| 87°/85°                           | 87°/85° | 75°    | 65°   | 55°   | 15°  | 15°   | 15°   | 15°   | 15° |
| 14                                | -       | 141,0  | -     | -     | -    | -     | -     | -     | -   |
| 15                                | 128,0   | 139,0  | -     | -     | -    | -     | -     | -     | -   |
| 16                                | 121,0   | 138,0  | -     | -     | -    | -     | -     | -     | -   |
| 18                                | 110,0   | 140,0* | -     | -     | -    | -     | -     | -     | -   |
| 20                                | 101,0   | 138,0* | -     | -     | -    | 136,0 | -     | -     | -   |
| 22                                | 93,0    | 135,0* | -     | -     | -    | 136,0 | 186,0 | 200,0 | -   |
| 24                                | 86,5    | 131,0* | -     | -     | -    | 135,0 | 186,0 | 198,0 | -   |
| 26                                | 80,5    | 127,0* | -     | -     | -    | 134,0 | 185,0 | 198,0 | -   |
| 28                                | 75,5    | 123,0* | -     | -     | -    | 134,0 | 184,0 | 197,0 | -   |
| 30                                | 71,0    | 119,0* | -     | -     | -    | 132,0 | 184,0 | 197,0 | -   |
| 34                                | 57,5*   | 113,0* | -     | -     | -    | 129,3 | 180,0 | 192,3 | -   |
| 38                                | -       | -      | -     | -     | -    | 126,3 | 176,6 | 187,0 | -   |
| 39                                | -       | -      | 127,0 | -     | -    | 125,5 | 176,5 | 185,0 | -   |
| 42                                | -       | -      | 123,0 | -     | -    | 123,0 | 176,0 | 179,0 | -   |
| 46                                | -       | -      | 116,0 | -     | -    | 119,0 | 162,6 | 163,0 | -   |
| 50                                | -       | -      | 108,0 | -     | -    | 114,6 | 148,3 | 147,0 | -   |
| 54                                | -       | -      | -     | -     | -    | 110,0 | 133,0 | 131,0 | -   |
| 58                                | -       | -      | -     | -     | -    | 105,0 | 120,3 | 119,0 | -   |
| 59                                | -       | -      | -     | 103,0 | -    | 104,0 | 117,1 | 116,0 | -   |
| 62                                | -       | -      | -     | 99,0  | -    | 98,5  | 108,5 | 107,8 | -   |
| 66                                | -       | -      | -     | 92,0  | -    | 89,5  | 98,5  | 97,5  | -   |
| 70                                | -       | -      | -     | -     | -    | 81,5  | 89,8  | 88,8  | -   |
| 74                                | -       | -      | -     | -     | -    | 74,1  | 81,8  | 80,8  | -   |
| 77                                | -       | -      | -     | -     | 69,5 | 69,0  | 76,3  | 75,3  | -   |
| 78                                | -       | -      | -     | -     | 68,0 | 67,5  | 74,5  | 73,5  | -   |
| 80                                | -       | -      | -     | -     | 66,0 | 64,5  | 71,5  | 70,1  | -   |
| 82                                | -       | -      | -     | -     | -    | 61,5  | 68,5  | 67,0  | -   |
| 86                                | -       | -      | -     | -     | -    | 55,8  | 62,6  | 61,1  | -   |
| 90                                | -       | -      | -     | -     | -    | 50,5  | 57,0  | 55,5  | -   |
| 94                                | -       | -      | -     | -     | -    | 46,1  | 51,8  | 50,2  | -   |
| 98                                | -       | -      | -     | -     | -    | 41,8  | 46,4  | 45,1  | -   |
| 102                               | -       | -      | -     | -     | -    | 37,5  | 40,4  | 39,2  | -   |
| 106                               | -       | -      | -     | -     | -    | 31,4  | 33,8  | 32,7  | -   |
| 109                               | -       | -      | -     | -     | -    | 26,9  | 29,4  | 27,8  | -   |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |       |       |       |  |
|--------------------------------------------------|---------|---------|------|------|------|-------|-------|-------|--|
| 96 m + 36 m                                      |         |         |      |      |      |       |       |       |  |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |       |       |       |  |
| 0 t 0 t-325 t                                    |         |         |      |      |      |       |       |       |  |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°   | 15°   | 15°   |  |
| t                                                | t       | t       | t    | t    | t    | t     | t     | t     |  |
| 17                                               | 104,0   | 108,0   | -    | -    | -    | -     | -     | -     |  |
| 18                                               | 102,0   | 107,0   | -    | -    | -    | -     | -     | -     |  |
| 20                                               | 93,5    | 104,0   | -    | -    | -    | -     | -     | -     |  |
| 22                                               | 86,0    | 107,0*  | -    | -    | -    | -     | -     | -     |  |
| 24                                               | 79,5    | 105,0*  | -    | -    | -    | -     | -     | -     |  |
| 25                                               | 76,7    | 104,0*  | -    | -    | -    | 103,0 | -     | -     |  |
| 26                                               | 74,0    | 103,0*  | -    | -    | -    | 103,0 | -     | -     |  |
| 27                                               | 71,5    | 101,5*  | -    | -    | -    | 103,0 | 145,0 | 154,0 |  |
| 28                                               | 69,0    | 100,0*  | -    | -    | -    | 103,0 | 145,0 | 154,0 |  |
| 30                                               | 65,0    | 98,0*   | -    | -    | -    | 102,0 | 145,0 | 153,0 |  |
| 34                                               | 57,5    | 92,5*   | -    | -    | -    | 100,6 | 143,0 | 152,0 |  |
| 38                                               | 51,5    | 87,5*   | -    | -    | -    | 99,1  | 140,0 | 150,0 |  |
| 42                                               | 46,7    | 83,0*   | -    | -    | -    | 97,5  | 140,0 | 150,0 |  |
| 44                                               | 39,9*   | 81,3*   | 96,5 | -    | -    | 96,1  | 138,3 | 147,0 |  |
| 45                                               | 38,9*   | 80,5*   | 96,0 | -    | -    | 95,5  | 138,0 | 146,0 |  |
| 46                                               | -       | -       | 95,5 | -    | -    | 94,8  | 137,6 | 145,0 |  |
| 50                                               | -       | -       | 91,5 | -    | -    | 92,1  | 134,3 | 139,0 |  |
| 54                                               | -       | -       | 87,0 | -    | -    | 89,5  | 129,0 | 131,0 |  |
| 58                                               | -       | -       | 82,5 | -    | -    | 86,1  | 120,3 | 120,3 |  |
| 62                                               | -       | -       | 77,5 | -    | -    | 82,8  | 111,0 | 109,6 |  |
| 66                                               | -       | -       | -    | 79,5 | -    | 79,5  | 101,0 | 99,5  |  |
| 70                                               | -       | -       | -    | 76,0 | -    | 75,6  | 92,3  | 90,8  |  |
| 74                                               | -       | -       | -    | 72,0 | -    | 72,3  | 84,3  | 82,8  |  |
| 78                                               | -       | -       | -    | 67,0 | -    | 69,0  | 77,0  | 75,5  |  |
| 82                                               | -       | -       | -    | -    | -    | 63,0  | 70,6  | 69,1  |  |
| 86                                               | -       | -       | -    | -    | 57,5 | 57,3  | 64,5  | 63,0  |  |
| 90                                               | -       | -       | -    | -    | 54,0 | 52,0  | 58,5  | 57,0  |  |
| 92                                               | -       | -       | -    | -    | 52,5 | 49,7  | 55,8  | 54,4  |  |
| 94                                               | -       | -       | -    | -    | -    | 47,5  | 53,1  | 51,8  |  |
| 98                                               | -       | -       | -    | -    | -    | 43,2  | 48,2  | 46,9  |  |
| 102                                              | -       | -       | -    | -    | -    | 39,2  | 43,7  | 42,1  |  |
| 106                                              | -       | -       | -    | -    | -    | 35,6  | 39,4  | 37,8  |  |
| 110                                              | -       | -       | -    | -    | -    | 32,0  | 35,0  | 33,6  |  |
| 114                                              | -       | -       | -    | -    | -    | 27,3  | 30,5  | 28,9  |  |
| 118                                              | -       | -       | -    | -    | -    | 22,3  | 24,9  | 23,4  |  |
| 120                                              | -       | -       | -    | -    | -    | 20,1  | 22,2  | 20,7  |  |

| 96 m + 48 m                       |         |         |      |      |      |      |       |       |  |
|-----------------------------------|---------|---------|------|------|------|------|-------|-------|--|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |       |       |  |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |       |       |  |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°   | 15°   |  |
| t                                 | t       | t       | t    | t    | t    | t    | t     | t     |  |
| 20                                | 81,5    | 83,5    | -    | -    | -    | -    | -     | -     |  |
| 22                                | 79,0    | 82,0    | -    | -    | -    | -    | -     | -     |  |
| 24                                | 73,0    | 80,5    | -    | -    | -    | -    | -     | -     |  |
| 26                                | 68,0    | 82,5*   | -    | -    | -    | -    | -     | -     |  |
| 28                                | 63,5    | 81,5*   | -    | -    | -    | -    | -     | -     |  |
| 29                                | 61,2    | 80,7*   | -    | -    | -    | 80,0 | -     | -     |  |
| 30                                | 59,0    | 80,0*   | -    | -    | -    | 79,5 | -     | -     |  |
| 31                                | 57,2    | 79,1*   | -    | -    | -    | 79,4 | 113,0 | 120,0 |  |
| 34                                | 52,0    | 76,5*   | -    | -    | -    | 79,1 | 113,0 | 120,0 |  |
| 38                                | 46,6    | 73,0*   | -    | -    | -    | 78,3 | 112,0 | 119,0 |  |
| 42                                | 41,7    | 69,5*   | -    | -    | -    | 77,0 | 112,0 | 119,0 |  |
| 46                                | 37,7    | 66,5*   | -    | -    | -    | 75,6 | 111,0 | 117,0 |  |
| 49                                | 35,0    | 64,2*   | 74,5 | -    | -    | 74,5 | 109,5 | 115,6 |  |
| 50                                | 34,2    | 63,5*   | 74,0 | -    | -    | 74,1 | 109,0 | 115,3 |  |
| 53                                | 31,9    | 61,2*   | 73,0 | -    | -    | 72,9 | 109,0 | 114,3 |  |
| 54                                | 27,4*   | 60,5*   | 72,5 | -    | -    | 72,5 | 109,0 | 114,0 |  |
| 57                                | 25,5*   | 59,0*   | 70,6 | -    | -    | 71,0 | 107,0 | 112,0 |  |
| 58                                | -       | -       | 70,0 | -    | -    | 70,5 | 106,6 | 111,3 |  |
| 62                                | -       | -       | 67,5 | -    | -    | 68,3 | 103,6 | 106,4 |  |
| 66                                | -       | -       | 64,5 | -    | -    | 66,0 | 99,0  | 99,0  |  |
| 70                                | -       | -       | 61,5 | -    | -    | 63,6 | 92,0  | 91,3  |  |
| 73                                | -       | -       | 59,0 | -    | -    | 61,8 | 86,6  | 85,6  |  |
| 74                                | -       | -       | -    | 59,0 | -    | 61,1 | 84,8  | 83,8  |  |
| 78                                | -       | -       | -    | 57,0 | -    | 58,5 | 77,5  | 76,5  |  |
| 82                                | -       | -       | -    | 54,5 | -    | 55,8 | 71,1  | 70,1  |  |
| 86                                | -       | -       | -    | 51,5 | -    | 53,1 | 65,0  | 63,5  |  |
| 89                                | -       | -       | -    | 49,4 | -    | 51,1 | 60,5  | 59,0  |  |
| 90                                | -       | -       | -    | -    | -    | 50,5 | 59,0  | 57,5  |  |
| 94                                | -       | -       | -    | -    | 45,6 | 47,4 | 54,0  | 52,5  |  |
| 98                                | -       | -       | -    | -    | 43,8 | 43,7 | 49,2  | 47,8  |  |
| 102                               | -       | -       | -    | -    | 41,4 | 39,7 | 44,8  | 43,4  |  |
| 104                               | -       | -       | -    | -    | 40,1 | 37,8 | 42,6  | 41,2  |  |
| 106                               | -       | -       | -    | -    | -    | 36,0 | 40,5  | 39,1  |  |
| 110                               | -       | -       | -    | -    | -    | 32,5 | 36,5  | 35,1  |  |
| 114                               | -       | -       | -    | -    | -    | 29,4 | 32,7  | 31,3  |  |
| 118                               | -       | -       | -    | -    | -    | 26,4 | 29,2  | 27,7  |  |
| 122                               | -       | -       | -    | -    | -    | 22,8 | 25,3  | 24,1  |  |
| 126                               | -       | -       | -    | -    | -    | 18,5 | 20,9  | 19,9  |  |
| 130                               | -       | -       | -    | -    | -    | 14,3 | 16,1  | 15,2  |  |
| 132                               | -       | -       | -    | -    | -    | 13,2 | 13,8  | 12,9  |  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |     |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|-----|
| 96 m + 60 m                                      |         |         |      |      |      |      |      |      |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 22                                               | 62,5    | 64,0    | -    | -    | -    | -    | -    | -    | -   |
| 24                                               | 62,0    | 63,5    | -    | -    | -    | -    | -    | -    | -   |
| 26                                               | 60,5    | 62,5    | -    | -    | -    | -    | -    | -    | -   |
| 28                                               | 58,5    | 63,5*   | -    | -    | -    | -    | -    | -    | -   |
| 30                                               | 54,5    | 62,5*   | -    | -    | -    | -    | -    | -    | -   |
| 33                                               | 49,5    | 61,3*   | -    | -    | -    | 61,0 | 87,5 | 91,5 | -   |
| 34                                               | 47,9    | 61,0*   | -    | -    | -    | 60,8 | 87,5 | 91,5 | -   |
| 38                                               | 42,4    | 58,5*   | -    | -    | -    | 60,3 | 87,5 | 91,5 | -   |
| 42                                               | 37,8    | 56,5*   | -    | -    | -    | 60,0 | 87,5 | 91,5 | -   |
| 46                                               | 33,8    | 54,5*   | -    | -    | -    | 58,6 | 86,5 | 90,5 | -   |
| 50                                               | 30,4    | 52,0*   | -    | -    | -    | 57,5 | 85,5 | 89,3 | -   |
| 54                                               | 27,4    | 49,9*   | 55,5 | -    | -    | 56,5 | 84,5 | 88,0 | -   |
| 58                                               | 24,9    | 47,7*   | 55,0 | -    | -    | 55,1 | 83,1 | 86,6 | -   |
| 62                                               | 22,6    | 45,7*   | 54,0 | -    | -    | 53,6 | 81,8 | 85,1 | -   |
| 65                                               | 21,1    | 44,4*   | 52,8 | -    | -    | 52,4 | 80,8 | 83,9 | -   |
| 66                                               | 17,3*   | 44,0*   | 52,5 | -    | -    | 52,0 | 80,5 | 83,5 | -   |
| 68                                               | 16,5*   | 43,2*   | 51,5 | -    | -    | 51,2 | 79,3 | 82,1 | -   |
| 70                                               | -       | -       | 50,5 | -    | -    | 50,5 | 77,9 | 80,8 | -   |
| 74                                               | -       | -       | 48,8 | -    | -    | 48,9 | 75,0 | 77,5 | -   |
| 78                                               | -       | -       | 46,7 | -    | -    | 47,1 | 72,0 | 73,5 | -   |
| 79                                               | -       | -       | 46,1 | 45,0 | -    | 46,6 | 71,0 | 72,1 | -   |
| 82                                               | -       | -       | 44,4 | 44,8 | -    | 45,3 | 68,0 | 68,1 | -   |
| 85                                               | -       | -       | 42,6 | 44,0 | -    | 43,9 | 64,5 | 64,0 | -   |
| 86                                               | -       | -       | -    | 43,8 | -    | 43,5 | 63,0 | 62,6 | -   |
| 90                                               | -       | -       | -    | 42,3 | -    | 41,7 | 58,0 | 57,0 | -   |
| 94                                               | -       | -       | -    | 40,4 | -    | 39,8 | 52,6 | 51,7 | -   |
| 98                                               | -       | -       | -    | 38,4 | -    | 37,6 | 47,9 | 46,9 | -   |
| 101                                              | -       | -       | -    | 36,6 | -    | 36,1 | 44,8 | 43,6 | -   |
| 102                                              | -       | -       | -    | -    | -    | 35,5 | 43,8 | 42,6 | -   |
| 103                                              | -       | -       | -    | -    | 34,0 | 34,9 | 42,8 | 41,6 | -   |
| 106                                              | -       | -       | -    | -    | 33,3 | 33,3 | 39,9 | 38,6 | -   |
| 110                                              | -       | -       | -    | -    | 31,8 | 31,2 | 36,1 | 34,8 | -   |
| 114                                              | -       | -       | -    | -    | 30,1 | 29,1 | 32,5 | 31,2 | -   |
| 115                                              | -       | -       | -    | -    | 29,6 | 28,5 | 31,6 | 30,3 | -   |
| 118                                              | -       | -       | -    | -    | -    | 26,7 | 29,1 | 27,8 | -   |
| 122                                              | -       | -       | -    | -    | -    | 24,2 | 25,9 | 24,6 | -   |
| 126                                              | -       | -       | -    | -    | -    | 21,6 | 22,8 | 21,5 | -   |
| 130                                              | -       | -       | -    | -    | -    | 18,4 | 19,9 | 18,6 | -   |
| 134                                              | -       | -       | -    | -    | -    | 14,9 | 16,9 | 15,8 | -   |
| 138                                              | -       | -       | -    | -    | -    | 11,3 | 13,5 | 12,6 | -   |
| 142                                              | -       | -       | -    | -    | -    | 8,6  | 9,4  | 8,5  | -   |
| 143                                              | -       | -       | -    | -    | -    | 8,2  | 8,4  | 7,5  | -   |

| 96 m + 72 m                       |         |         |      |      |      |      |      |      |     |
|-----------------------------------|---------|---------|------|------|------|------|------|------|-----|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |      |      |      |      |     |
| 0 t 0 t-325 t                     |         |         |      |      |      |      |      |      |     |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  | 15° |
| 25                                | 48,0    | 49,4    | -    | -    | -    | -    | -    | -    | -   |
| 26                                | 47,8    | 49,1    | -    | -    | -    | -    | -    | -    | -   |
| 28                                | 47,3    | 48,5    | -    | -    | -    | -    | -    | -    | -   |
| 30                                | 46,9    | 47,8    | -    | -    | -    | -    | -    | -    | -   |
| 34                                | 43,5    | 48,0*   | -    | -    | -    | -    | -    | -    | -   |
| 37                                | 39,5    | 47,1*   | -    | -    | -    | 46,7 | 67,0 | 70,0 | -   |
| 38                                | 38,2    | 46,8*   | -    | -    | -    | 46,6 | 66,9 | 69,9 | -   |
| 42                                | 33,8    | 45,5*   | -    | -    | -    | 46,2 | 66,5 | 69,5 | -   |
| 46                                | 30,0    | 44,0*   | -    | -    | -    | 45,7 | 66,5 | 69,1 | -   |
| 50                                | 26,7    | 42,5*   | -    | -    | -    | 45,1 | 66,0 | 68,6 | -   |
| 54                                | 23,9    | 40,9*   | -    | -    | -    | 44,3 | 65,0 | 68,0 | -   |
| 58                                | 21,4    | 39,3*   | -    | -    | -    | 43,4 | 64,3 | 67,0 | -   |
| 59                                | 20,8    | 38,9*   | 41,9 | -    | -    | 43,2 | 64,1 | 66,7 | -   |
| 62                                | 19,2    | 37,8*   | 41,8 | -    | -    | 42,4 | 63,5 | 65,9 | -   |
| 66                                | 17,2    | 36,2*   | 41,3 | -    | -    | 41,4 | 62,5 | 64,5 | -   |
| 70                                | 15,4    | 34,8*   | 40,6 | -    | -    | 40,2 | 61,5 | 63,5 | -   |
| 74                                | 13,9    | 33,5*   | 39,7 | -    | -    | 39,0 | 59,8 | 62,1 | -   |
| 77                                | 12,8    | 32,5*   | 38,8 | -    | -    | 38,1 | 58,8 | 60,9 | -   |
| 78                                | 9,6*    | 32,2*   | 38,6 | -    | -    | 37,8 | 58,5 | 60,5 | -   |
| 80                                | 9,0*    | 31,7*   | 38,0 | -    | -    | 37,0 | 57,6 | 59,5 | -   |
| 82                                | -       | -       | 37,4 | -    | -    | 36,3 | 56,8 | 58,5 | -   |
| 86                                | -       | -       | 35,9 | 33,0 | -    | 35,0 | 55,5 | 56,5 | -   |
| 90                                | -       | -       | 34,5 | 33,0 | -    | 33,7 | 53,5 | 54,5 | -   |
| 94                                | -       | -       | 32,9 | 32,7 | -    | 32,3 | 50,8 | 50,8 | -   |
| 97                                | -       | -       | 31,6 | 32,0 | -    | 31,2 | 48,4 | 47,9 | -   |
| 98                                | -       | -       | -    | 31,8 | -    | 30,9 | 47,3 | 46,8 | -   |
| 102                               | -       | -       | -    | 30,8 | -    | 29,5 | 43,1 | 42,4 | -   |
| 106                               | -       | -       | -    | 29,4 | -    | 27,9 | 39,1 | 38,3 | -   |
| 110                               | -       | -       | -    | 28,0 | -    | 26,4 | 35,5 | 34,5 | -   |
| 111                               | -       | -       | -    | 27,6 | 24,5 | 26,0 | 34,6 | 33,6 | -   |
| 112                               | -       | -       | -    | 27,2 | 24,5 | 25,6 | 33,8 | 32,7 | -   |
| 114                               | -       | -       | -    | -    | 24,4 | 24,8 | 32,1 | 31,1 | -   |
| 118                               | -       | -       | -    | -    | 23,6 | 22,9 | 28,9 | 27,9 | -   |
| 122                               | -       | -       | -    | -    | 22,6 | 21,3 | 25,9 | 24,7 | -   |
| 126                               | -       | -       | -    | -    | 21,3 | 19,7 | 22,9 | 21,7 | -   |
| 127                               | -       | -       | -    | -    | 20,9 | 19,2 | 22,1 | 21,0 | -   |
| 130                               | -       | -       | -    | -    | -    | 17,9 | 20,0 | 18,9 | -   |
| 134                               | -       | -       | -    | -    | -    | 16,1 | 17,3 | 16,1 | -   |
| 138                               | -       | -       | -    | -    | -    | 14,3 | 14,8 | 13,6 | -   |
| 142                               | -       | -       | -    | -    | -    | 11,3 | 12,4 | 11,2 | -   |
| 146                               | -       | -       | -    | -    | -    | 8,2  | 10,0 | 8,8  | -   |
| 150                               | -       | -       | -    | -    | -    | 5,2  | 7,3  | 6,5  | -   |
| 152                               | -       | -       | -    | -    | -    | 4,4  | 5,5  | 4,7  | -   |
| 153                               | -       | -       | -    | -    | -    | -    | 4,6  | -    | -   |

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |      |  |
|--------------------------------------------------|---------|---------|------|------|------|------|------|------|--|
| 96 m + 84 m                                      |         |         |      |      |      |      |      |      |  |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |      |  |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |      |  |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°  |  |
| 28                                               | 35,9    | 37,1    | -    | -    | -    | -    | -    | -    |  |
| 30                                               | 35,6    | 36,7    | -    | -    | -    | -    | -    | -    |  |
| 34                                               | 35,0    | 36,4    | -    | -    | -    | -    | -    | -    |  |
| 38                                               | 33,7    | 35,8    | -    | -    | -    | -    | -    | -    |  |
| 41                                               | 30,7    | 35,2    | -    | -    | -    | 34,9 | 50,5 | 52,5 |  |
| 42                                               | 29,8    | 35,1    | -    | -    | -    | 34,8 | 50,0 | 52,0 |  |
| 46                                               | 26,2    | 34,2    | -    | -    | -    | 34,5 | 50,0 | 52,0 |  |
| 50                                               | 23,1    | 33,2    | -    | -    | -    | 34,1 | 49,8 | 51,8 |  |
| 54                                               | 20,3    | 32,2    | -    | -    | -    | 33,6 | 49,6 | 51,5 |  |
| 58                                               | 17,9    | 31,1    | -    | -    | -    | 32,9 | 48,8 | 50,5 |  |
| 62                                               | 15,7    | 30,0    | -    | -    | -    | 32,2 | 48,1 | 49,6 |  |
| 64                                               | 14,7    | 29,4    | 30,2 | -    | -    | 31,9 | 47,7 | 49,3 |  |
| 66                                               | 13,8    | 28,9    | 30,2 | -    | -    | 31,6 | 47,4 | 49,0 |  |
| 70                                               | 12,1    | 27,8    | 30,2 | -    | -    | 30,7 | 46,5 | 48,0 |  |
| 74                                               | 10,5    | 26,7    | 30,1 | -    | -    | 29,8 | 45,6 | 47,1 |  |
| 78                                               | 9,1     | 25,7    | 29,6 | -    | -    | 29,0 | 44,7 | 46,1 |  |
| 82                                               | 7,8     | 24,7    | 29,0 | -    | -    | 28,0 | 43,8 | 45,0 |  |
| 86                                               | 6,7     | 23,7    | 28,3 | -    | -    | 27,0 | 42,7 | 44,0 |  |
| 88                                               | 6,2     | 23,3    | 27,9 | -    | -    | 26,5 | 42,2 | 43,5 |  |
| 90                                               | -       | 22,9    | 27,6 | -    | -    | 26,0 | 41,8 | 43,0 |  |
| 92                                               | -       | 22,4    | 27,1 | -    | -    | 25,5 | 41,3 | 42,4 |  |
| 93                                               | -       | -       | 26,8 | 23,0 | -    | 25,2 | 41,1 | 42,2 |  |
| 94                                               | -       | -       | 26,6 | 23,0 | -    | 25,0 | 40,8 | 41,9 |  |
| 98                                               | -       | -       | 25,7 | 23,0 | -    | 23,9 | 39,9 | 40,8 |  |
| 102                                              | -       | -       | 24,6 | 23,0 | -    | 22,9 | 39,0 | 39,8 |  |
| 106                                              | -       | -       | 23,5 | 22,8 | -    | 21,9 | 37,0 | 36,8 |  |
| 108                                              | -       | -       | 23,0 | 22,5 | -    | 21,4 | 35,9 | 35,3 |  |
| 110                                              | -       | -       | -    | 22,2 | -    | 20,8 | 34,2 | 33,5 |  |
| 114                                              | -       | -       | -    | 21,5 | -    | 19,7 | 30,9 | 30,1 |  |
| 118                                              | -       | -       | -    | 20,5 | -    | 18,4 | 27,9 | 27,0 |  |
| 120                                              | -       | -       | -    | 20,0 | 16,2 | 17,8 | 26,4 | 25,5 |  |
| 122                                              | -       | -       | -    | 19,5 | 16,2 | 17,2 | 25,0 | 24,1 |  |
| 124                                              | -       | -       | -    | 18,9 | 16,1 | 16,6 | 23,6 | 22,7 |  |
| 126                                              | -       | -       | -    | -    | 16,1 | 16,0 | 22,2 | 21,3 |  |
| 130                                              | -       | -       | -    | -    | 15,6 | 14,7 | 19,6 | 18,6 |  |
| 134                                              | -       | -       | -    | -    | 14,8 | 13,1 | 17,0 | 15,9 |  |
| 138                                              | -       | -       | -    | -    | 13,9 | 11,9 | 14,5 | 13,5 |  |
| 142                                              | -       | -       | -    | -    | -    | 8,6  | 12,1 | 11,1 |  |
| 146                                              | -       | -       | -    | -    | -    | 6,7  | 9,8  | 8,8  |  |
| 150                                              | -       | -       | -    | -    | -    | 4,9  | 7,7  | 6,6  |  |
| 152                                              | -       | -       | -    | -    | -    | 4,1  | 6,7  | 5,5  |  |
| 154                                              | -       | -       | -    | -    | -    | -    | 5,7  | 4,5  |  |
| 155                                              | -       | -       | -    | -    | -    | -    | 5,2  | 4,0  |  |
| 157                                              | -       | -       | -    | -    | -    | -    | 4,2  | -    |  |

| 96 m + 96 m                       |         |         |      |      |     |      |      |      |  |
|-----------------------------------|---------|---------|------|------|-----|------|------|------|--|
| SWSL_1   SFSL_1   SFSL_3   SFSL_4 |         |         |      |      |     |      |      |      |  |
| 0 t 0 t-325 t                     |         |         |      |      |     |      |      |      |  |
| m                                 | 87°/85° | 87°/85° | 75°  | 65°  | 55° | 15°  | 15°  | 15°  |  |
| 30                                | 25,9    | 27,0    | -    | -    | -   | -    | -    | -    |  |
| 34                                | 25,5    | 26,4    | -    | -    | -   | -    | -    | -    |  |
| 38                                | 25,1    | 26,1    | -    | -    | -   | -    | -    | -    |  |
| 42                                | 24,4    | 25,7    | -    | -    | -   | -    | -    | -    |  |
| 45                                | 22,9    | 25,2    | -    | -    | -   | 25,0 | -    | 37,9 |  |
| 46                                | 22,5    | 25,1    | -    | -    | -   | 24,9 | -    | 37,8 |  |
| 47                                | 21,7    | 24,9    | -    | -    | -   | 24,8 | 36,4 | 37,7 |  |
| 50                                | 19,5    | 24,5    | -    | -    | -   | 24,6 | 36,3 | 37,5 |  |
| 54                                | 16,9    | 23,8    | -    | -    | -   | 24,3 | 36,2 | 37,2 |  |
| 58                                | 14,6    | 23,2    | -    | -    | -   | 23,9 | 35,8 | 36,7 |  |
| 62                                | 12,5    | 22,4    | -    | -    | -   | 23,3 | 35,2 | 36,2 |  |
| 66                                | 10,6    | 21,7    | -    | -    | -   | 22,7 | 34,6 | 35,7 |  |
| 69                                | 9,3     | 21,1    | 20,5 | -    | -   | 22,3 | 34,1 | 35,2 |  |
| 70                                | 8,9     | 20,9    | 20,5 | -    | -   | 22,1 | 33,9 | 35,1 |  |
| 74                                | 7,4     | 20,1    | 20,5 | -    | -   | 21,5 | 33,3 | 34,4 |  |
| 78                                | 6,0     | 19,3    | 20,5 | -    | -   | 20,8 | 32,5 | 33,6 |  |
| 82                                | 4,8     | 18,5    | 20,5 | -    | -   | 20,1 | 31,8 | 32,8 |  |
| 84                                | 4,2     | 18,1    | 20,4 | -    | -   | 19,8 | 31,4 | 32,4 |  |
| 86                                | -       | 17,7    | 20,3 | -    | -   | 19,4 | 31,0 | 32,0 |  |
| 90                                | -       | 17,0    | 19,9 | -    | -   | 18,7 | 30,3 | 31,2 |  |
| 94                                | -       | 16,3    | 19,4 | -    | -   | 17,9 | 29,5 | 30,4 |  |
| 98                                | -       | 15,6    | 18,9 | -    | -   | 17,1 | 28,8 | 29,6 |  |
| 100                               | -       | 15,2    | 18,6 | 14,4 | -   | 16,7 | 28,4 | 29,2 |  |
| 102                               | -       | 14,9    | 18,3 | 14,4 | -   | 16,3 | 28,1 | 28,8 |  |
| 103                               | -       | 14,8    | 18,1 | 14,4 | -   | 16,1 | 27,9 | 28,6 |  |
| 106                               | -       | -       | 17,6 | 14,4 | -   | 15,5 | 27,3 | 28,0 |  |
| 110                               | -       | -       | 17,0 | 14,4 | -   | 14,8 | 26,6 | 26,3 |  |
| 114                               | -       | -       | 16,3 | 14,4 | -   | 14,0 | 26,0 | 25,2 |  |
| 118                               | -       | -       | 15,6 | 14,3 | -   | 13,2 | 25,1 | 24,2 |  |
| 120                               | -       | -       | 15,2 | 14,2 | -   | 12,8 | 24,7 | 23,7 |  |
| 122                               | -       | -       | -    | 14,2 | -   | 12,3 | 23,4 | 22,6 |  |
| 126                               | -       | -       | -    | 13,6 | -   | 11,4 | 20,8 | 20,0 |  |
| 129                               | -       | -       | -    | 13,1 | 9,1 | 10,7 | 18,9 | 18,1 |  |
| 130                               | -       | -       | -    | 13,0 | 9,1 | 10,4 | 18,3 | 17,4 |  |
| 134                               | -       | -       | -    | 12,2 | 9,0 | 9,4  | 15,9 | 15,0 |  |
| 135                               | -       | -       | -    | 12,0 | 8,9 | 9,2  | 15,3 | 14,4 |  |
| 138                               | -       | -       | -    | -    | 8,9 | 8,5  | 13,6 | 12,7 |  |
| 142                               | -       | -       | -    | -    | 8,7 | 7,5  | 11,4 | 10,4 |  |
| 146                               | -       | -       | -    | -    | 8,1 | 6,3  | 9,2  | 8,2  |  |
| 150                               | -       | -       | -    | -    | 7,4 | 5,3  | 7,1  | 6,1  |  |
| 153                               | -       | -       | -    | -    | -   | 4,3  | 5,6  | 4,6  |  |
| 154                               | -       | -       | -    | -    | -   | -    | 5,1  | 4,1  |  |
| 156                               | -       | -       | -    | -    | -   | -    | 4,1  | -    |  |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t +  50 t     11-21 m     8,40 m     9.8 m/s    360°    EN13000                                                                                                                                                                                              |       |       |      |      |      |      |       |       |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|------|-------|-------|---|
| 102 m +  36 m                                                                                                                                                                                                                                                    |       |       |      |      |      |      |       |       |   |
| <div> <div>SWSL_1</div> <div>(SFSL_1)(SFSL_3)(SFSL_4)</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |       |       |      |      |      |      |       |       |   |
| m                                                                                                                                                                                                                                                                | t     | t     | t    | t    | t    | t    | t     | t     | t |
| 17                                                                                                                                                                                                                                                               | 94,0  | 97,5  | -    | -    | -    | -    | -     | -     | - |
| 18                                                                                                                                                                                                                                                               | 94,0  | 96,5  | -    | -    | -    | -    | -     | -     | - |
| 20                                                                                                                                                                                                                                                               | 89,0  | 94,5  | -    | -    | -    | -    | -     | -     | - |
| 22                                                                                                                                                                                                                                                               | 82,0  | 97,0* | -    | -    | -    | -    | -     | -     | - |
| 24                                                                                                                                                                                                                                                               | 76,0  | 95,0* | -    | -    | -    | -    | -     | -     | - |
| 25                                                                                                                                                                                                                                                               | 73,5  | 94,0* | -    | -    | -    | 93,0 | -     | -     | - |
| 26                                                                                                                                                                                                                                                               | 71,0  | 93,0* | -    | -    | -    | 92,5 | -     | -     | - |
| 27                                                                                                                                                                                                                                                               | 68,7  | 91,7* | -    | -    | -    | 92,2 | 132,0 | 140,0 | - |
| 28                                                                                                                                                                                                                                                               | 66,5  | 90,5* | -    | -    | -    | 92,0 | 132,0 | 140,0 | - |
| 30                                                                                                                                                                                                                                                               | 62,0  | 88,5* | -    | -    | -    | 91,5 | 132,0 | 140,0 | - |
| 34                                                                                                                                                                                                                                                               | 55,0  | 83,5* | -    | -    | -    | 90,1 | 130,0 | 139,0 | - |
| 38                                                                                                                                                                                                                                                               | 49,4  | 79,0* | -    | -    | -    | 88,5 | 129,0 | 137,0 | - |
| 42                                                                                                                                                                                                                                                               | 44,8  | 75,0* | -    | -    | -    | 86,5 | 129,0 | 137,0 | - |
| 46                                                                                                                                                                                                                                                               | 36,0* | 72,0* | 85,0 | -    | -    | 84,1 | 126,0 | 133,0 | - |
| 50                                                                                                                                                                                                                                                               | -     | -     | 82,0 | -    | -    | 81,6 | 123,3 | 129,3 | - |
| 54                                                                                                                                                                                                                                                               | -     | -     | 78,0 | -    | -    | 79,0 | 120,0 | 124,0 | - |
| 58                                                                                                                                                                                                                                                               | -     | -     | 74,0 | -    | -    | 76,4 | 113,3 | 115,3 | - |
| 62                                                                                                                                                                                                                                                               | -     | -     | 69,5 | -    | -    | 73,3 | 106,0 | 106,0 | - |
| 63                                                                                                                                                                                                                                                               | -     | -     | 68,5 | -    | -    | 72,5 | 104,0 | 103,8 | - |
| 66                                                                                                                                                                                                                                                               | -     | -     | -    | -    | -    | 70,0 | 98,0  | 97,5  | - |
| 69                                                                                                                                                                                                                                                               | -     | -     | -    | 65,0 | -    | 67,5 | 92,0  | 91,2  | - |
| 70                                                                                                                                                                                                                                                               | -     | -     | -    | 64,5 | -    | 66,6 | 90,0  | 89,1  | - |
| 74                                                                                                                                                                                                                                                               | -     | -     | -    | 61,0 | -    | 63,4 | 82,1  | 81,1  | - |
| 78                                                                                                                                                                                                                                                               | -     | -     | -    | 57,0 | -    | 60,0 | 74,5  | 73,5  | - |
| 80                                                                                                                                                                                                                                                               | -     | -     | -    | 54,5 | -    | 58,3 | 70,9  | 69,7  | - |
| 82                                                                                                                                                                                                                                                               | -     | -     | -    | -    | -    | 56,6 | 67,3  | 66,0  | - |
| 86                                                                                                                                                                                                                                                               | -     | -     | -    | -    | -    | 53,3 | 61,1  | 59,8  | - |
| 89                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 48,5 | 50,8 | 56,9  | 55,8  | - |
| 90                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 47,8 | 50,0 | 55,5  | 54,5  | - |
| 94                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 44,6 | 45,7 | 50,6  | 49,3  | - |
| 96                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 42,9 | 43,6 | 48,2  | 46,7  | - |
| 98                                                                                                                                                                                                                                                               | -     | -     | -    | -    | -    | 41,5 | 45,8  | 44,3  | - |
| 102                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 37,5 | 41,2  | 39,7  | - |
| 106                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 33,9 | 36,9  | 35,4  | - |
| 110                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 30,5 | 32,8  | 31,3  | - |
| 114                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 27,3 | 29,1  | 27,5  | - |
| 118                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 22,8 | 25,1  | 24,1  | - |
| 122                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 18,3 | 20,6  | 19,6  | - |
| 125                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 15,3 | 16,9  | 15,9  | - |

| 102 m +  48 m                                                                                                                                                                                                                                                    |       |       |      |      |      |      |       |       |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|------|-------|-------|---|
| <div> <div>SWSL_1</div> <div>(SFSL_1)(SFSL_3)(SFSL_4)</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |       |       |      |      |      |      |       |       |   |
| m                                                                                                                                                                                                                                                                | t     | t     | t    | t    | t    | t    | t     | t     | t |
| 20                                                                                                                                                                                                                                                               | 74,0  | 75,5  | -    | -    | -    | -    | -     | -     | - |
| 22                                                                                                                                                                                                                                                               | 72,5  | 74,5  | -    | -    | -    | -    | -     | -     | - |
| 24                                                                                                                                                                                                                                                               | 70,0  | 73,0  | -    | -    | -    | -    | -     | -     | - |
| 26                                                                                                                                                                                                                                                               | 65,0  | 74,5* | -    | -    | -    | -    | -     | -     | - |
| 28                                                                                                                                                                                                                                                               | 60,5  | 73,5* | -    | -    | -    | -    | -     | -     | - |
| 29                                                                                                                                                                                                                                                               | 58,5  | 72,7* | -    | -    | -    | 70,5 | -     | -     | - |
| 30                                                                                                                                                                                                                                                               | 56,5  | 72,0* | -    | -    | -    | 70,5 | -     | -     | - |
| 31                                                                                                                                                                                                                                                               | 54,8  | 71,2* | -    | -    | -    | 70,3 | 102,0 | 108,0 | - |
| 34                                                                                                                                                                                                                                                               | 50,0  | 69,0* | -    | -    | -    | 69,8 | 103,0 | 109,0 | - |
| 38                                                                                                                                                                                                                                                               | 44,5  | 66,0* | -    | -    | -    | 68,8 | 102,6 | 108,0 | - |
| 42                                                                                                                                                                                                                                                               | 39,9  | 63,0* | -    | -    | -    | 67,5 | 102,0 | 108,0 | - |
| 46                                                                                                                                                                                                                                                               | 35,9  | 60,0* | -    | -    | -    | 66,1 | 101,0 | 106,3 | - |
| 50                                                                                                                                                                                                                                                               | 32,6  | 57,0* | -    | -    | -    | 64,6 | 99,8  | 105,3 | - |
| 51                                                                                                                                                                                                                                                               | 31,9  | 56,3* | 64,0 | -    | -    | 64,2 | 99,7  | 105,0 | - |
| 54                                                                                                                                                                                                                                                               | 29,8  | 54,5* | 63,0 | -    | -    | 63,0 | 99,5  | 104,0 | - |
| 57                                                                                                                                                                                                                                                               | 23,9* | 53,5* | 61,5 | -    | -    | 61,5 | 98,2  | 102,0 | - |
| 58                                                                                                                                                                                                                                                               | -     | -     | 61,0 | -    | -    | 61,0 | 97,8  | 101,6 | - |
| 62                                                                                                                                                                                                                                                               | -     | -     | 58,0 | -    | -    | 58,8 | 95,7  | 99,6  | - |
| 66                                                                                                                                                                                                                                                               | -     | -     | 55,5 | -    | -    | 56,5 | 92,5  | 94,0  | - |
| 70                                                                                                                                                                                                                                                               | -     | -     | 52,5 | -    | -    | 54,1 | 86,5  | 87,0  | - |
| 74                                                                                                                                                                                                                                                               | -     | -     | 49,8 | -    | -    | 51,8 | 80,3  | 80,1  | - |
| 75                                                                                                                                                                                                                                                               | -     | -     | 49,1 | 50,5 | -    | 51,2 | 78,7  | 78,5  | - |
| 78                                                                                                                                                                                                                                                               | -     | -     | -    | 49,5 | -    | 49,4 | 74,0  | 73,5  | - |
| 82                                                                                                                                                                                                                                                               | -     | -     | -    | 47,4 | -    | 47,0 | 68,0  | 67,0  | - |
| 86                                                                                                                                                                                                                                                               | -     | -     | -    | 44,8 | -    | 44,5 | 62,0  | 61,0  | - |
| 90                                                                                                                                                                                                                                                               | -     | -     | -    | 42,1 | -    | 42,1 | 56,0  | 55,0  | - |
| 92                                                                                                                                                                                                                                                               | -     | -     | -    | 40,6 | -    | 40,9 | 53,5  | 52,4  | - |
| 94                                                                                                                                                                                                                                                               | -     | -     | -    | -    | -    | 39,6 | 51,1  | 49,9  | - |
| 98                                                                                                                                                                                                                                                               | -     | -     | -    | -    | 36,5 | 36,9 | 46,4  | 45,1  | - |
| 102                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 34,5 | 34,4 | 42,0  | 40,7  | - |
| 106                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 32,3 | 31,8 | 37,9  | 36,5  | - |
| 107                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 31,8 | 31,2 | 36,9  | 35,5  | - |
| 110                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 29,3 | 33,9  | 32,6  | - |
| 114                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 26,8 | 30,2  | 28,8  | - |
| 118                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 24,1 | 26,7  | 25,3  | - |
| 122                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 21,3 | 23,4  | 22,0  | - |
| 126                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 18,4 | 20,3  | 18,9  | - |
| 130                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 14,5 | 16,8  | 16,0  | - |
| 134                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 10,6 | 12,9  | 11,9  | - |
| 137                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 8,9  | 9,6   | 8,6   | - |

0 t   65 t   125 t   165 t   205 t   245 t   285 t   325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t +  50 t          11-21 m          8,40 m          9.8 m/s         360°         EN13000                                                                                                                                                                     |       |       |      |      |      |      |      |      |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|------|------|------|------|------|---|
| 102 m +  60 m                                                                                                                                                                                                                                                    |       |       |      |      |      |      |      |      |   |
| <div> <div>SWSL_1</div> <div>(SFSL_1)(SFSL_3)(SFSL_4)</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |       |       |      |      |      |      |      |      |   |
| m                                                                                                                                                                                                                                                                | t     | t     | t    | t    | t    | t    | t    | t    | t |
| 23                                                                                                                                                                                                                                                               | 56,5  | 58,0  | -    | -    | -    | -    | -    | -    | - |
| 24                                                                                                                                                                                                                                                               | 56,0  | 57,5  | -    | -    | -    | -    | -    | -    | - |
| 26                                                                                                                                                                                                                                                               | 55,0  | 56,5  | -    | -    | -    | -    | -    | -    | - |
| 28                                                                                                                                                                                                                                                               | 54,0  | 57,5* | -    | -    | -    | -    | -    | -    | - |
| 30                                                                                                                                                                                                                                                               | 52,0  | 56,5* | -    | -    | -    | -    | -    | -    | - |
| 33                                                                                                                                                                                                                                                               | 47,2  | 55,3* | -    | -    | -    | 54,5 | 80,0 | 84,0 | - |
| 34                                                                                                                                                                                                                                                               | 45,6  | 55,0* | -    | -    | -    | 54,3 | 80,0 | 83,8 | - |
| 38                                                                                                                                                                                                                                                               | 40,3  | 53,0* | -    | -    | -    | 53,8 | 79,8 | 83,5 | - |
| 42                                                                                                                                                                                                                                                               | 35,9  | 51,0* | -    | -    | -    | 53,5 | 79,5 | 83,5 | - |
| 46                                                                                                                                                                                                                                                               | 32,1  | 48,9* | -    | -    | -    | 52,5 | 78,8 | 82,5 | - |
| 50                                                                                                                                                                                                                                                               | 28,8  | 46,8* | -    | -    | -    | 51,3 | 78,0 | 81,5 | - |
| 54                                                                                                                                                                                                                                                               | 26,0  | 44,7* | -    | -    | -    | 50,0 | 77,0 | 80,5 | - |
| 56                                                                                                                                                                                                                                                               | 24,7  | 43,7* | 49,2 | -    | -    | 49,9 | 76,5 | 79,8 | - |
| 58                                                                                                                                                                                                                                                               | 23,5  | 42,7* | 48,8 | -    | -    | 49,1 | 76,0 | 79,1 | - |
| 62                                                                                                                                                                                                                                                               | 21,4  | 40,9* | 47,9 | -    | -    | 47,6 | 74,7 | 77,8 | - |
| 65                                                                                                                                                                                                                                                               | 19,9  | 39,7* | 46,7 | -    | -    | 46,5 | 73,7 | 76,8 | - |
| 66                                                                                                                                                                                                                                                               | 15,9* | 39,3* | 46,4 | -    | -    | 46,2 | 73,5 | 76,5 | - |
| 69                                                                                                                                                                                                                                                               | 14,7* | 38,2* | 45,0 | -    | -    | 44,9 | 72,2 | 74,7 | - |
| 70                                                                                                                                                                                                                                                               | -     | -     | 44,6 | -    | -    | 44,5 | 71,8 | 74,3 | - |
| 74                                                                                                                                                                                                                                                               | -     | -     | 42,7 | -    | -    | 42,8 | 69,1 | 71,8 | - |
| 78                                                                                                                                                                                                                                                               | -     | -     | 40,8 | -    | -    | 41,0 | 66,5 | 68,5 | - |
| 82                                                                                                                                                                                                                                                               | -     | -     | 38,8 | 38,2 | -    | 39,1 | 63,7 | 64,0 | - |
| 86                                                                                                                                                                                                                                                               | -     | -     | 36,7 | 37,3 | -    | 37,2 | 59,5 | 59,0 | - |
| 90                                                                                                                                                                                                                                                               | -     | -     | -    | 35,9 | -    | 35,4 | 54,5 | 54,0 | - |
| 94                                                                                                                                                                                                                                                               | -     | -     | -    | 34,2 | -    | 33,5 | 49,8 | 49,0 | - |
| 98                                                                                                                                                                                                                                                               | -     | -     | -    | 32,3 | -    | 31,7 | 45,1 | 44,1 | - |
| 102                                                                                                                                                                                                                                                              | -     | -     | -    | 30,3 | -    | 29,7 | 40,8 | 39,7 | - |
| 103                                                                                                                                                                                                                                                              | -     | -     | -    | 29,8 | -    | 29,2 | 39,8 | 38,7 | - |
| 106                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 26,9 | 27,7 | 37,0 | 35,9 | - |
| 110                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 25,7 | 25,7 | 33,3 | 32,2 | - |
| 114                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 24,2 | 23,6 | 29,8 | 28,7 | - |
| 118                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 22,5 | 21,5 | 26,5 | 25,3 | - |
| 119                                                                                                                                                                                                                                                              | -     | -     | -    | -    | 22,1 | 21,0 | 25,7 | 24,5 | - |
| 122                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 19,5 | 23,3 | 22,1 | - |
| 126                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 17,4 | 20,3 | 19,1 | - |
| 130                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 15,2 | 17,5 | 16,2 | - |
| 134                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 13,1 | 14,8 | 13,5 | - |
| 138                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 11,0 | 12,2 | 10,9 | - |
| 142                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 7,7  | 9,6  | 8,3  | - |
| 146                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 5,0  | 5,8  | 5,0  | - |
| 147                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 4,5  | 4,9  | 4,1  | - |
| 148                                                                                                                                                                                                                                                              | -     | -     | -    | -    | -    | 4,0  | -    | -    | - |

| 102 m +  72 m                                                                                                                                                                                                                                                    |      |       |      |      |      |      |      |      |   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|------|------|------|------|------|------|---|
| <div> <div>SWSL_1</div> <div>(SFSL_1)(SFSL_3)(SFSL_4)</div> </div> <div> <div>0 t</div> <div>0 t-325 t</div> </div> <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |      |       |      |      |      |      |      |      |   |
| m                                                                                                                                                                                                                                                                | t    | t     | t    | t    | t    | t    | t    | t    | t |
| 25                                                                                                                                                                                                                                                               | 43,3 | 44,6  | -    | -    | -    | -    | -    | -    | - |
| 26                                                                                                                                                                                                                                                               | 43,0 | 44,4  | -    | -    | -    | -    | -    | -    | - |
| 28                                                                                                                                                                                                                                                               | 42,6 | 43,8  | -    | -    | -    | -    | -    | -    | - |
| 30                                                                                                                                                                                                                                                               | 42,1 | 43,2  | -    | -    | -    | -    | -    | -    | - |
| 34                                                                                                                                                                                                                                                               | 40,5 | 43,1* | -    | -    | -    | -    | -    | -    | - |
| 37                                                                                                                                                                                                                                                               | 37,2 | 42,2* | -    | -    | -    | 41,8 | 61,5 | 64,0 | - |
| 38                                                                                                                                                                                                                                                               | 36,2 | 42,0* | -    | -    | -    | 41,7 | 61,4 | 64,0 | - |
| 42                                                                                                                                                                                                                                                               | 32,0 | 40,7* | -    | -    | -    | 41,3 | 61,0 | 64,0 | - |
| 46                                                                                                                                                                                                                                                               | 28,4 | 39,3* | -    | -    | -    | 40,8 | 61,0 | 63,6 | - |
| 50                                                                                                                                                                                                                                                               | 25,2 | 37,9* | -    | -    | -    | 40,1 | 60,6 | 63,1 | - |
| 54                                                                                                                                                                                                                                                               | 22,5 | 36,4* | -    | -    | -    | 39,3 | 60,0 | 62,5 | - |
| 58                                                                                                                                                                                                                                                               | 20,1 | 34,9* | -    | -    | -    | 38,3 | 59,0 | 61,5 | - |
| 61                                                                                                                                                                                                                                                               | 18,4 | 33,7* | 36,7 | -    | -    | 37,6 | 58,3 | 60,8 | - |
| 62                                                                                                                                                                                                                                                               | 17,9 | 33,4* | 36,7 | -    | -    | 37,3 | 58,1 | 60,6 | - |
| 66                                                                                                                                                                                                                                                               | 16,0 | 32,0* | 36,3 | -    | -    | 36,3 | 57,0 | 59,5 | - |
| 70                                                                                                                                                                                                                                                               | 14,3 | 30,7* | 35,6 | -    | -    | 35,1 | 56,0 | 58,5 | - |
| 74                                                                                                                                                                                                                                                               | 12,8 | 29,4* | 34,7 | -    | -    | 34,0 | 55,0 | 57,3 | - |
| 77                                                                                                                                                                                                                                                               | 11,8 | 28,5* | 33,7 | -    | -    | 33,1 | 54,2 | 56,3 | - |
| 78                                                                                                                                                                                                                                                               | 8,3* | 28,3* | 33,4 | -    | -    | 32,8 | 54,0 | 56,0 | - |
| 80                                                                                                                                                                                                                                                               | 7,8* | 27,8* | 32,8 | -    | -    | 32,1 | 53,2 | 55,0 | - |
| 82                                                                                                                                                                                                                                                               | -    | -     | 32,2 | -    | -    | 31,4 | 52,4 | 54,0 | - |
| 86                                                                                                                                                                                                                                                               | -    | -     | 30,9 | -    | -    | 30,0 | 50,7 | 52,0 | - |
| 89                                                                                                                                                                                                                                                               | -    | -     | 29,8 | 27,7 | -    | 29,0 | 49,5 | 50,5 | - |
| 90                                                                                                                                                                                                                                                               | -    | -     | 29,5 | 27,7 | -    | 28,7 | 49,2 | 50,0 | - |
| 94                                                                                                                                                                                                                                                               | -    | -     | 28,1 | 27,2 | -    | 27,3 | 47,0 | 47,1 | - |
| 98                                                                                                                                                                                                                                                               | -    | -     | 26,6 | 26,6 | -    | 25,8 | 44,0 | 43,7 | - |
| 102                                                                                                                                                                                                                                                              | -    | -     | -    | 25,4 | -    | 24,5 | 40,2 | 39,6 | - |
| 106                                                                                                                                                                                                                                                              | -    | -     | -    | 24,1 | -    | 23,0 | 36,2 | 35,4 | - |
| 110                                                                                                                                                                                                                                                              | -    | -     | -    | 22,7 | -    | 21,5 | 32,5 | 31,5 | - |
| 114                                                                                                                                                                                                                                                              | -    | -     | -    | 21,3 | 18,5 | 19,8 | 29,3 | 28,3 | - |
| 115                                                                                                                                                                                                                                                              | -    | -     | -    | 20,9 | 18,5 | 19,4 | 28,5 | 27,5 | - |
| 118                                                                                                                                                                                                                                                              | -    | -     | -    | -    | 18,0 | 18,3 | 26,2 | 25,1 | - |
| 122                                                                                                                                                                                                                                                              | -    | -     | -    | -    | 17,0 | 16,7 | 23,1 | 22,1 | - |
| 126                                                                                                                                                                                                                                                              | -    | -     | -    | -    | 15,9 | 15,1 | 20,3 | 19,2 | - |
| 130                                                                                                                                                                                                                                                              | -    | -     | -    | -    | 14,7 | 13,4 | 17,5 | 16,4 | - |
| 134                                                                                                                                                                                                                                                              | -    | -     | -    | -    | -    | 11,6 | 14,8 | 13,8 | - |
| 138                                                                                                                                                                                                                                                              | -    | -     | -    | -    | -    | 9,8  | 12,3 | 11,2 | - |
| 142                                                                                                                                                                                                                                                              | -    | -     | -    | -    | -    | 8,0  | 9,9  | 8,8  | - |
| 146                                                                                                                                                                                                                                                              | -    | -     | -    | -    | -    | 6,3  | 7,6  | 6,5  | - |
| 150                                                                                                                                                                                                                                                              | -    | -     | -    | -    | -    | 4,5  | 5,4  | 4,3  | - |
| 152                                                                                                                                                                                                                                                              | -    | -     | -    | -    | -    | -    | 4,3  | -    | - |

0 t
 65 t
 125 t
 165 t
 205 t
 245 t
 285 t
 325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

**SWSL, SFSL**

| 165 t +  50 t     11-21 m     8,40 m     9.8 m/s    360°    EN13000                                                                          |      |      |      |      |      |      |      |      |   |
|----------------------------------------------------------------------------------------------------------------------------------------------|------|------|------|------|------|------|------|------|---|
| 102 m +  84 m                                                                                                                                |      |      |      |      |      |      |      |      |   |
| <div> <div>SWSL_1</div> <div>(SFSL_1)(SFSL_3)(SFSL_4)</div> </div>                                                                           |      |      |      |      |      |      |      |      |   |
| <div> <div>0 t</div> <div>0 t-325 t</div> </div>                                                                                             |      |      |      |      |      |      |      |      |   |
| <div> <div>87°/85°</div> <div>87°/85°</div> <div>75°</div> <div>65°</div> <div>55°</div> <div>15°</div> <div>15°</div> <div>15°</div> </div> |      |      |      |      |      |      |      |      |   |
| m                                                                                                                                            | t    | t    | t    | t    | t    | t    | t    | t    | t |
| 28                                                                                                                                           | 32,1 | 33,3 | -    | -    | -    | -    | -    | -    | - |
| 30                                                                                                                                           | 31,8 | 32,9 | -    | -    | -    | -    | -    | -    | - |
| 34                                                                                                                                           | 31,2 | 32,6 | -    | -    | -    | -    | -    | -    | - |
| 38                                                                                                                                           | 30,3 | 32,0 | -    | -    | -    | -    | -    | -    | - |
| 41                                                                                                                                           | 28,5 | 31,4 | -    | -    | -    | 31,0 | 46,3 | 48,5 | - |
| 42                                                                                                                                           | 28,0 | 31,2 | -    | -    | -    | 30,9 | 46,3 | 48,4 | - |
| 46                                                                                                                                           | 24,6 | 30,4 | -    | -    | -    | 30,5 | 46,1 | 48,2 | - |
| 50                                                                                                                                           | 21,5 | 29,4 | -    | -    | -    | 30,1 | 45,9 | 47,9 | - |
| 54                                                                                                                                           | 18,9 | 28,4 | -    | -    | -    | 29,7 | 45,7 | 47,6 | - |
| 58                                                                                                                                           | 16,6 | 27,3 | -    | -    | -    | 28,9 | 44,9 | 46,8 | - |
| 62                                                                                                                                           | 14,5 | 26,3 | -    | -    | -    | 28,2 | 44,2 | 46,1 | - |
| 66                                                                                                                                           | 12,7 | 25,3 | 26,3 | -    | -    | 27,6 | 43,6 | 45,4 | - |
| 70                                                                                                                                           | 11,0 | 24,2 | 26,3 | -    | -    | 26,8 | 42,8 | 44,5 | - |
| 74                                                                                                                                           | 9,5  | 23,1 | 25,9 | -    | -    | 25,9 | 42,0 | 43,6 | - |
| 78                                                                                                                                           | 8,1  | 22,1 | 25,4 | -    | -    | 25,0 | 41,2 | 42,7 | - |
| 82                                                                                                                                           | 6,9  | 21,2 | 24,8 | -    | -    | 24,0 | 40,4 | 41,7 | - |
| 86                                                                                                                                           | 5,8  | 20,3 | 24,0 | -    | -    | 23,0 | 39,3 | 40,7 | - |
| 89                                                                                                                                           | 4,7  | 19,7 | 23,4 | -    | -    | 22,2 | 38,6 | 39,8 | - |
| 90                                                                                                                                           | -    | 19,5 | 23,2 | -    | -    | 22,0 | 38,4 | 39,6 | - |
| 92                                                                                                                                           | -    | 19,2 | 22,7 | -    | -    | 21,4 | 37,9 | 39,0 | - |
| 94                                                                                                                                           | -    | -    | 22,3 | -    | -    | 20,9 | 37,4 | 38,4 | - |
| 96                                                                                                                                           | -    | -    | 21,8 | 18,8 | -    | 20,4 | 36,9 | 37,9 | - |
| 98                                                                                                                                           | -    | -    | 21,4 | 18,8 | -    | 19,8 | 36,4 | 37,3 | - |
| 102                                                                                                                                          | -    | -    | 20,4 | 18,7 | -    | 18,8 | 35,5 | 36,2 | - |
| 106                                                                                                                                          | -    | -    | 19,4 | 18,3 | -    | 17,7 | 33,7 | 33,2 | - |
| 110                                                                                                                                          | -    | -    | 18,3 | 17,5 | -    | 16,5 | 31,2 | 30,1 | - |
| 114                                                                                                                                          | -    | -    | -    | 16,7 | -    | 15,5 | 28,1 | 27,1 | - |
| 118                                                                                                                                          | -    | -    | -    | 15,8 | -    | 14,2 | 25,1 | 24,1 | - |
| 122                                                                                                                                          | -    | -    | -    | 14,8 | -    | 12,9 | 22,2 | 21,3 | - |
| 123                                                                                                                                          | -    | -    | -    | 14,5 | 11,4 | 12,6 | 21,5 | 20,6 | - |
| 126                                                                                                                                          | -    | -    | -    | 13,8 | 11,1 | 11,7 | 19,5 | 18,5 | - |
| 130                                                                                                                                          | -    | -    | -    | -    | 10,6 | 10,4 | 16,8 | 15,8 | - |
| 134                                                                                                                                          | -    | -    | -    | -    | 9,8  | 9,1  | 14,4 | 13,3 | - |
| 138                                                                                                                                          | -    | -    | -    | -    | 9,0  | 7,8  | 12,0 | 10,9 | - |
| 142                                                                                                                                          | -    | -    | -    | -    | 8,1  | 6,5  | 9,6  | 8,6  | - |
| 146                                                                                                                                          | -    | -    | -    | -    | -    | 5,0  | 7,4  | 6,4  | - |
| 148                                                                                                                                          | -    | -    | -    | -    | -    | 4,2  | 6,3  | -    | - |
| 150                                                                                                                                          | -    | -    | -    | -    | -    | -    | 5,3  | -    | - |
| 152                                                                                                                                          | -    | -    | -    | -    | -    | -    | 4,2  | -    | - |

0 t    65 t    125 t    165 t    205 t    245 t    285 t    325 t

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# Operation

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**SWSL, SFSL**

| 165 t + 50 t 11-21 m 8,40 m 9.8 m/s 360° EN13000 |         |         |      |      |      |      |      |       |     |
|--------------------------------------------------|---------|---------|------|------|------|------|------|-------|-----|
| 108 m + 48 m                                     |         |         |      |      |      |      |      |       |     |
| SWSL_1   SFSL_1   SFSL_3   SFSL_4                |         |         |      |      |      |      |      |       |     |
| 0 t 0 t-325 t                                    |         |         |      |      |      |      |      |       |     |
| m                                                | 87°/85° | 87°/85° | 75°  | 65°  | 55°  | 15°  | 15°  | 15°   | 15° |
| 20                                               | 65,0    | 67,0    | -    | -    | -    | -    | -    | -     | -   |
| 22                                               | 64,5    | 66,0    | -    | -    | -    | -    | -    | -     | -   |
| 24                                               | 63,0    | 64,5    | -    | -    | -    | -    | -    | -     | -   |
| 26                                               | 61,0    | 66,0*   | -    | -    | -    | -    | -    | -     | -   |
| 28                                               | 57,5    | 64,5*   | -    | -    | -    | -    | -    | -     | -   |
| 30                                               | 54,0    | 63,5*   | -    | -    | -    | 63,0 | 95,5 | 100,0 | -   |
| 34                                               | 47,7    | 61,0*   | -    | -    | -    | 62,0 | 95,5 | 100,0 | -   |
| 38                                               | 42,3    | 58,0*   | -    | -    | -    | 61,0 | 95,1 | 99,8  | -   |
| 42                                               | 37,9    | 55,5*   | -    | -    | -    | 60,0 | 94,5 | 99,5  | -   |
| 46                                               | 34,2    | 52,5*   | -    | -    | -    | 58,3 | 93,3 | 98,1  | -   |
| 50                                               | 30,9    | 50,0*   | -    | -    | -    | 56,8 | 92,3 | 96,6  | -   |
| 52                                               | 29,5    | 49,0*   | 56,0 | -    | -    | 56,1 | 91,6 | 95,8  | -   |
| 54                                               | 28,2    | 48,0*   | 55,5 | -    | -    | 55,5 | 91,0 | 95,0  | -   |
| 58                                               | 21,5*   | 46,1*   | 53,5 | -    | -    | 53,1 | 88,3 | 92,3  | -   |
| 62                                               | -       | -       | 51,0 | -    | -    | 51,1 | 86,5 | 89,4  | -   |
| 66                                               | -       | -       | 48,7 | -    | -    | 49,3 | 84,5 | 87,0  | -   |
| 70                                               | -       | -       | 46,1 | -    | -    | 46,9 | 79,8 | 80,6  | -   |
| 74                                               | -       | -       | 43,4 | -    | -    | 44,5 | 74,6 | 74,5  | -   |
| 76                                               | -       | -       | 42,0 | -    | -    | 43,3 | 71,8 | 71,5  | -   |
| 78                                               | -       | -       | -    | 41,8 | -    | 42,1 | 69,0 | 68,5  | -   |
| 82                                               | -       | -       | -    | 39,9 | -    | 39,7 | 63,2 | 62,5  | -   |
| 86                                               | -       | -       | -    | 37,6 | -    | 37,4 | 57,8 | 56,6  | -   |
| 90                                               | -       | -       | -    | 35,2 | -    | 35,0 | 52,5 | 51,0  | -   |
| 94                                               | -       | -       | -    | 32,7 | -    | 32,6 | 47,3 | 45,8  | -   |
| 98                                               | -       | -       | -    | -    | -    | 30,2 | 42,6 | 41,4  | -   |
| 101                                              | -       | -       | -    | -    | 27,8 | 28,4 | 39,5 | 38,2  | -   |
| 102                                              | -       | -       | -    | -    | 27,4 | 27,8 | 38,5 | 37,2  | -   |
| 106                                              | -       | -       | -    | -    | 25,5 | 25,4 | 34,5 | 33,2  | -   |
| 110                                              | -       | -       | -    | -    | 23,5 | 23,1 | 30,8 | 29,5  | -   |
| 111                                              | -       | -       | -    | -    | 23,0 | 22,5 | 29,9 | 28,6  | -   |
| 114                                              | -       | -       | -    | -    | -    | 20,9 | 27,2 | 25,9  | -   |
| 118                                              | -       | -       | -    | -    | -    | 18,3 | 23,8 | 22,4  | -   |
| 122                                              | -       | -       | -    | -    | -    | 15,8 | 20,5 | 19,2  | -   |
| 126                                              | -       | -       | -    | -    | -    | 13,5 | 17,5 | 16,2  | -   |
| 130                                              | -       | -       | -    | -    | -    | 11,1 | 14,7 | 13,3  | -   |
| 134                                              | -       | -       | -    | -    | -    | 8,8  | 11,7 | 10,6  | -   |
| 138                                              | -       | -       | -    | -    | -    | 6,8  | 8,7  | 7,8   | -   |
| 141                                              | -       | -       | -    | -    | -    | 5,3  | 5,7  | 4,8   | -   |
| 142                                              | -       | -       | -    | -    | -    | 4,8  | 4,7  | -     | -   |

|     |      |       |       |       |       |       |       |
|-----|------|-------|-------|-------|-------|-------|-------|
| 0 t | 65 t | 125 t | 165 t | 205 t | 245 t | 285 t | 325 t |
|-----|------|-------|-------|-------|-------|-------|-------|

|                                       |
|---------------------------------------|
| SWSL_1: 11-19 m                       |
| SWSL_3/SFSL_3, SWSL_4/SFSL_4: 11-21 m |
| SFSL_3 + SFSL_4: 225 t + 50 t         |

SWSL\_1: 11-19 m

SWSL\_3/SFSL\_3, SWSL\_4/SFSL\_4: 11-21 m

SFSL\_3 + SFSL\_4: 225 t + 50 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinazione braccio base 85° ·  
Ângulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinazione braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ângulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1

# Operation

**SWSL, SFSL**

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| 225 t + 50 t |      |      |      | 11-21 m      | 8,40 m | 9.8 m/s | 360° | EN13000 |
|--------------|------|------|------|--------------|--------|---------|------|---------|
| 108 m + 72 m |      |      |      | 108 m + 84 m |        |         |      |         |
| SFSL_3       |      |      |      | SFSL_3       |        |         |      |         |
| 0 t          |      |      |      | 0 t          |        |         |      |         |
| 15°          |      |      |      | 15°          |        |         |      |         |
| 15°          |      |      |      | 15°          |        |         |      |         |
| 15°          |      |      |      | 15°          |        |         |      |         |
| m            | t    | t    | t    | m            | t      | t       | t    |         |
| 38           | 42,1 | 57,5 | 60,5 | 42           | 30,9   | 43,7    | 45,9 |         |
| 42           | 34,4 | 57,5 | 60,5 | 46           | 25,5   | 43,5    | 45,7 |         |
| 46           | 27,1 | 57,5 | 60,1 | 50           | 20,1   | 43,4    | 45,5 |         |
| 50           | 20,6 | 57,1 | 59,6 | 54           | 14,7   | 43,2    | 45,3 |         |
| 54           | 14,8 | 56,5 | 59,0 | 58           | 9,9    | 42,6    | 44,5 |         |
| 58           | 9,9  | 55,8 | 58,3 | 62           | 5,3    | 41,9    | 43,8 |         |
| 62           | 5,3  | 55,0 | 57,5 | 63           | 4,3    | 41,7    | 43,6 |         |
| 63           | 4,3  | 54,7 | 57,2 | 66           | -      | 41,3    | 43,1 |         |
| 66           | -    | 54,0 | 56,5 | 70           | -      | 40,6    | 42,3 |         |
| 70           | -    | 53,0 | 55,5 | 74           | -      | 39,9    | 41,5 |         |
| 74           | -    | 52,0 | 54,4 | 78           | -      | 39,1    | 40,7 |         |
| 78           | -    | 51,0 | 53,0 | 82           | -      | 38,3    | 39,8 |         |
| 82           | -    | 49,6 | 51,5 | 86           | -      | 37,3    | 38,7 |         |
| 86           | -    | 47,8 | 49,5 | 90           | -      | 36,2    | 37,6 |         |
| 90           | -    | 46,1 | 47,5 | 94           | -      | 35,0    | 36,2 |         |
| 94           | -    | 43,9 | 44,3 | 98           | -      | 33,9    | 34,9 |         |
| 98           | -    | 41,0 | 40,7 | 102          | -      | 32,8    | 33,6 |         |
| 102          | -    | 37,4 | 36,9 | 106          | -      | 31,5    | 31,3 |         |
| 106          | -    | 33,6 | 33,0 | 110          | -      | 28,5    | 28,1 |         |
| 110          | -    | 30,0 | 29,3 | 114          | -      | 25,5    | 24,9 |         |
| 114          | -    | 26,6 | 25,7 | 118          | -      | 22,4    | 21,7 |         |
| 118          | -    | 23,5 | 22,6 | 122          | -      | 19,5    | 18,8 |         |
| 122          | -    | 20,6 | 19,6 | 126          | -      | 16,9    | 16,1 |         |
| 126          | -    | 17,8 | 16,8 | 130          | -      | 14,4    | 13,5 |         |
| 130          | -    | 15,1 | 14,1 | 134          | -      | 12,0    | 11,0 |         |
| 134          | -    | 12,5 | 11,5 | 138          | -      | 9,6     | 8,7  |         |
| 138          | -    | 10,1 | 9,0  | 142          | -      | 7,3     | 6,3  |         |
| 142          | -    | 7,7  | 6,6  | 146          | -      | 5,1     | 4,1  |         |
| 146          | -    | 5,4  | 4,3  | 148          | -      | 4,1     | -    |         |
| 148          | -    | 4,3  | -    |              |        |         |      |         |

0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

\* Main boom angle 85° · Hauptauslegerwinkel 85° · Jarret de flèche principale 85° · Inclinação braccio base 85° ·  
Ángulo de pluma principal 85° · Ângulo da lança principal 85° · Угол подъема гл. стрелы 85°

Main boom angle 87°, 85°, 75°, 65° and 55°, capacities for intermediate boom positions are calculated by the crane control system IC-1 · Hauptauslegerwinkel 87°, 85°, 75°, 65° und 55°, Traglasten für Zwischenstellungen des Hauptauslegers werden von der Kransteuerung IC-1 berechnet · Jarret de flèche principale 87°, 85°, 75°, 65° et 55°, le système de commande de la grue IC-1 calcule les charges pour les positions intermédiaires de la flèche · Inclinação braccio base 87°, 85°, 75°, 65° e 55°, capacità per posizioni intermedie del braccio sono calcolate dal sistema di controllo della gru IC-1 · Ángulo de pluma principal 87°, 85°, 75°, 65° y 55°, las capacidades para posiciones de pluma intermedias son calculadas por el sistema de control de grúa IC-1 · Ângulos da lança principal 87°, 85°, 75°, 65° e 55°; as capacidades para posições da lança intermediária são calculadas pelo sistema de controle da grua IC-1 · Грузоподъемность при углах подъема главной стрелы 87°, 85°, 75°, 65° и 55°, грузоподъемность в промежуточных положениях стрелы рассчитывается системой управления краном IC-1



# FIXED FLY JIB (VESSELLIFT)

STARRER HILFSAUSLEGER (VESSELLIFT)

FLÉCHETTE FIXE (VESSELLIFT)

FALCONE FISSO (VESSELLIFT)

PLUMÍN FIJO (VESSELLIFT)

LANÇA AUXILIAR FIXA (IÇAMENTO DE EMBARCAÇÃO)

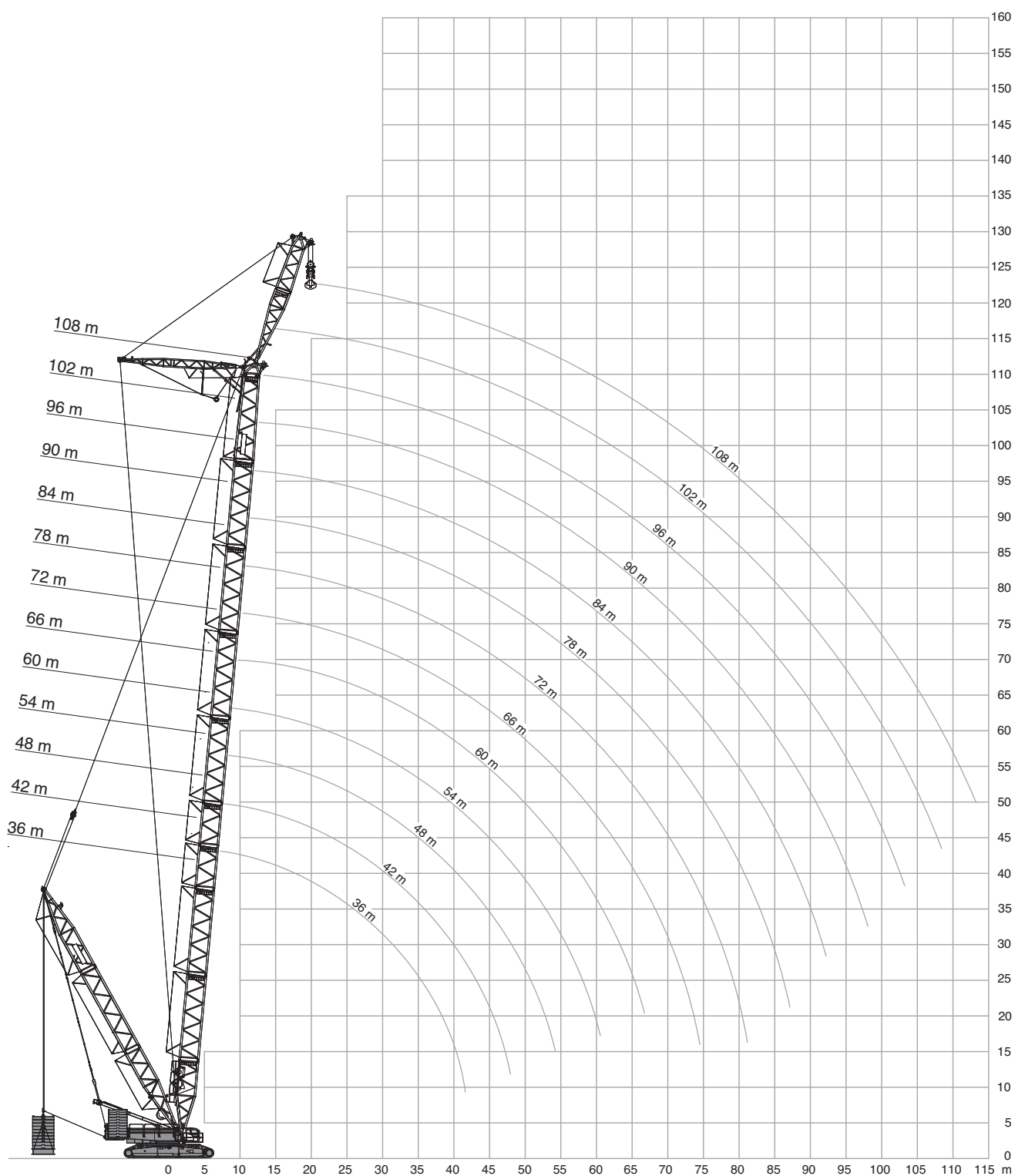
НЕПОДВИЖНАЯ СТРЕЛА С ИЗМЕНЯЕМЫМ ВЫЛЕТОМ (ПОДЪЕМ СУДОВ)



# Operation

LVSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация



# Operation

LVSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  165 t +  50 t  11-21 m  18 m  15°  8,40 m  9.8 m/s           360° EN13000 |      |       |       |       |       |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|  <div> <div>36 m</div> <div>42 m</div> <div>48 m</div> <div>54 m</div> <div>60 m</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |       |       |       |       |       |       |       |       |       |       |       |       |
| <div> <div>LVSL_1</div> <div>LVSL_3</div> <div>LVSL_1</div> <div>LVSL_3</div> <div>LVSL_1</div> <div>LVSL_3</div> <div>LVSL_4</div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |       |       |       |       |       |       |       |       |       |       |       |       |
|  <div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> <div>0 t</div> <div>0 t - 325 t</div> </div>                                                                                                                                                                                                                                                                                                                                                                        |      |       |       |       |       |       |       |       |       |       |       |       |       |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | t    | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     | t     |
| 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 199,0 | 347,0 | 190,0 | 347,0 | 347,0 | -     | -     | -     | -     | -     | -     |
| 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 184,0 | 347,0 | 176,0 | 347,0 | 347,0 | 169,0 | 347,0 | 347,0 | 162,0 | 334,0 | 347,0 |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 171,0 | 347,0 | 164,0 | 347,0 | 347,0 | 157,0 | 347,0 | 347,0 | 151,0 | 334,0 | 347,0 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 149,0 | 347,0 | 143,0 | 347,0 | 347,0 | 138,0 | 347,0 | 347,0 | 132,0 | 333,0 | 347,0 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 132,0 | 347,0 | 126,0 | 347,0 | 347,0 | 121,0 | 347,0 | 347,0 | 116,0 | 327,0 | 347,0 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 116,0 | 347,0 | 112,0 | 347,0 | 347,0 | 108,0 | 347,0 | 347,0 | 103,0 | 323,0 | 347,0 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 101,0 | 347,0 | 100,0 | 344,0 | 347,0 | 97,0  | 342,0 | 347,0 | 92,5  | 320,0 | 347,0 |
| 25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 96,5 | 335,0 | 95,2  | 333,5 | 94,0  | 331,0 | 345,5 | 91,7  | 329,0 | 344,5 | 88,0  | 317,0 | 343,5 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 90,5 | 322,0 | 89,5  | 320,0 | 88,0  | 318,0 | 344,0 | 86,5  | 316,0 | 342,0 | 83,5  | 314,0 | 340,0 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 81,0 | 298,0 | 79,5  | 296,0 | 78,0  | 293,0 | 320,0 | 76,5  | 291,0 | 318,0 | 75,0  | 290,0 | 315,0 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 72,5 | 276,0 | 71,0  | 274,0 | 69,5  | 272,0 | 297,0 | 68,0  | 270,0 | 295,0 | 66,5  | 268,0 | 293,0 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 59,8 | 236,0 | 58,3  | 240,6 | 56,8  | 238,6 | 261,0 | 55,4  | 236,6 | 259,0 | 54,0  | 234,6 | 257,0 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 49,4 | 199,3 | 47,8  | 211,0 | 46,1  | 209,3 | 229,3 | 44,5  | 207,6 | 227,3 | 43,1  | 205,6 | 225,3 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 41,2 | 166,0 | 39,5  | 185,0 | 37,4  | 184,0 | 202,0 | 35,5  | 183,0 | 200,0 | 33,9  | 181,0 | 198,0 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 34,9 | 140,0 | 32,9  | 158,3 | 30,8  | 164,6 | 181,3 | 28,9  | 163,0 | 180,0 | 27,1  | 161,6 | 178,0 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 29,2 | 114,3 | 27,3  | 135,3 | 25,1  | 145,6 | 159,3 | 23,1  | 145,6 | 162,0 | 21,3  | 144,3 | 160,0 |
| 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 27,9 | 108,0 | 26,1  | 130,5 | 23,9  | 141,0 | 153,5 | 21,9  | 142,0 | 158,0 | 20,0  | 140,5 | 156,0 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 22,5  | 116,0 | 20,2  | 127,0 | 138,0 | 18,2  | 131,0 | 146,0 | 16,3  | 129,0 | 144,0 |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | 20,5  | 109,0 | 18,3  | 117,6 | 128,6 | 16,3  | 124,3 | 137,3 | 14,3  | 123,3 | 137,6 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | -     | -     | 16,4  | 109,6 | 119,3 | 14,4  | 117,6 | 128,6 | 12,4  | 117,6 | 131,3 |
| 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | -     | -     | 13,8  | 99,0  | 107,0 | 11,7  | 107,0 | 115,6 | 9,7   | 109,2 | 121,5 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | -     | -     | -     | -     | -     | 11,0  | 103,0 | 111,3 | 8,9   | 106,5 | 118,0 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | -     | -     | -     | -     | -     | 8,0   | 91,0  | 98,0  | 5,9   | 95,5  | 104,0 |
| 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | 4,6   | 88,5  | 96,8  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 82,8  | 91,6  |
| 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -    | -     | -     | -     | -     | -     | -     | -     | -     | -     | -     | 81,0  | 88,5  |



0 t

65 t

125 t

165 t

205 t

245 t

285 t

325 t

LVSL\_1:  11-19 m

LVSL\_3, LVSL\_4:  11-21 m

LVSL\_3 + LVSL\_4:  225 t +  50 t

# Operation

LVSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

|  165 t +  50 t  11-21 m  18 m  15°  8,40 m  9.8 m/s 360° EN13000 |       |       |       |             |       |       |       |        |       |             |       |       |       |        |       |       |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------|-------------|-------|-------|-------|--------|-------|-------------|-------|-------|-------|--------|-------|-------|
| 66 m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |       |       |       | 72 m        |       |       |       | 75 m   |       | 78 m        |       |       |       | 81 m   |       |       |
| LVSL_1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |       |       | LVSL_1      |       |       |       | LVSL_3 |       | LVSL_1      |       |       |       | LVSL_3 |       |       |
| 0 t                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |       |       |       | 0 t - 325 t |       |       |       | 0 t    |       | 0 t - 325 t |       |       |       | 0 t    |       |       |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t     | t           | t     | t     | t     | t      | t     | t           | t     | t     | t     | t      | t     | t     |
| 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 145,0 | 294,0 | 347,0 | 347,0       | 139,0 | 262,0 | 314,0 | 314,0  | -     | -           | -     | -     | -     | -      | -     | -     |
| 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 136,0 | 294,0 | 347,0 | 347,0       | 130,0 | 262,0 | 314,0 | 314,0  | 309,0 | 314,0       | 125,0 | 217,0 | 295,0 | 308,0  | 280,0 | 281,0 |
| 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 127,0 | 294,0 | 347,0 | 347,0       | 122,0 | 262,0 | 314,0 | 314,0  | 309,0 | 314,0       | 117,0 | 217,0 | 295,0 | 307,0  | 279,0 | 281,0 |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 112,0 | 294,0 | 347,0 | 347,0       | 107,0 | 262,0 | 314,0 | 314,0  | 306,0 | 314,0       | 104,0 | 217,0 | 294,0 | 307,0  | 278,0 | 281,0 |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 100,0 | 290,0 | 347,0 | 347,0       | 95,5  | 262,0 | 314,0 | 314,0  | 303,0 | 312,0       | 92,0  | 216,0 | 291,0 | 305,0  | 277,0 | 281,0 |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 89,5  | 287,0 | 344,0 | 347,0       | 85,0  | 259,0 | 314,0 | 314,0  | 300,0 | 310,0       | 82,0  | 214,0 | 289,0 | 302,0  | 275,0 | 281,0 |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 80,0  | 284,0 | 338,0 | 337,0       | 76,5  | 256,0 | 314,0 | 314,0  | 298,0 | 307,0       | 73,5  | 212,0 | 287,0 | 299,0  | 273,0 | 281,0 |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 72,0  | 281,0 | 314,0 | 313,0       | 68,5  | 254,0 | 312,0 | 310,0  | 296,0 | 305,0       | 66,0  | 210,0 | 283,0 | 294,0  | 270,0 | 280,0 |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 65,0  | 267,0 | 291,0 | 291,0       | 62,0  | 251,0 | 290,0 | 288,0  | 287,0 | 285,0       | 59,5  | 208,0 | 279,0 | 284,0  | 266,0 | 277,0 |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 53,0  | 233,6 | 255,0 | 254,3       | 51,0  | 227,0 | 253,3 | 252,0  | 250,3 | 249,0       | 49,1  | 201,3 | 248,3 | 249,3  | 242,0 | 244,3 |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 42,3  | 204,6 | 223,6 | 223,0       | 40,9  | 203,0 | 221,6 | 220,6  | 219,0 | 217,6       | 39,6  | 190,6 | 220,0 | 219,0  | 216,6 | 215,0 |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 32,9  | 180,0 | 197,0 | 197,0       | 31,5  | 179,0 | 195,0 | 194,0  | 193,0 | 191,0       | 31,0  | 178,0 | 194,0 | 193,0  | 190,0 | 189,0 |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 26,1  | 160,6 | 176,3 | 176,3       | 24,7  | 159,6 | 174,3 | 173,3  | 172,3 | 171,0       | 24,1  | 158,6 | 173,3 | 172,3  | 170,0 | 169,0 |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 20,2  | 143,3 | 158,3 | 158,3       | 18,7  | 142,3 | 156,3 | 155,3  | 154,3 | 153,3       | 18,1  | 141,6 | 155,0 | 154,0  | 152,3 | 151,3 |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 15,2  | 128,0 | 143,0 | 143,0       | 13,6  | 127,0 | 141,0 | 140,0  | 139,0 | 138,0       | 13,0  | 127,0 | 139,0 | 138,0  | 137,0 | 136,0 |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 11,2  | 116,6 | 130,3 | 130,3       | 9,6   | 115,0 | 128,3 | 127,3  | 126,3 | 125,3       | 8,9   | 115,0 | 127,0 | 126,0  | 124,3 | 123,3 |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 7,7   | 106,3 | 119,0 | 118,6       | 5,9   | 104,5 | 117,0 | 116,0  | 115,0 | 114,0       | 5,2   | 103,6 | 116,0 | 114,6  | 113,0 | 111,8 |
| 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6,9   | 104,0 | 116,5 | 116,0       | 5,1   | 102,2 | 114,5 | 113,5  | 112,5 | 111,5       | 4,4   | 101,0 | 113,5 | 112,0  | 110,5 | 109,2 |
| 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6,1   | 101,6 | 114,0 | 113,3       | 4,3   | 100,0 | 112,0 | 111,0  | 110,0 | 109,0       | -     | 99,0  | 111,0 | 109,3  | 108,0 | 106,6 |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4,6   | 97,0  | 109,0 | 108,0       | -     | 95,5  | 107,0 | 106,0  | 105,0 | 104,0       | -     | 95,0  | 106,0 | 104,0  | 103,0 | 102,0 |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 88,0  | 97,0  | 96,3        | -     | 87,8  | 98,6  | 97,0   | 96,5  | 95,5        | -     | 87,3  | 97,0  | 96,0   | 94,6  | 93,6  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 77,5  | 85,3  | 84,5        | -     | 80,0  | 89,1  | 87,6   | 88,1  | 87,0        | -     | 80,1  | 89,3  | 88,3   | 87,0  | 86,0  |
| 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | 70,5  | 78,0  | 77,5        | -     | 74,0  | 81,1  | 79,6   | 81,6  | 80,2        | -     | 75,1  | 83,8  | 82,8   | 81,7  | 80,7  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -           | -     | 72,0  | 78,5  | 77,0   | 79,5  | 78,0        | -     | 73,5  | 82,0  | 81,0   | 80,0  | 79,0  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -           | -     | 62,5  | 70,5  | 68,5   | 69,3  | 68,0        | -     | 66,5  | 72,3  | 71,0   | 71,6  | 70,6  |
| 85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -           | -     | -     | -     | -      | 64,0  | 62,5        | -     | 60,6  | 65,0  | 63,5   | 65,2  | 64,2  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -           | -     | -     | -     | -      | -     | -           | -     | 58,3  | 63,5  | 61,8   | 63,0  | 61,9  |
| 87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -           | -     | -     | -     | -      | -     | -           | -     | 56,0  | 62,0  | 60,5   | 60,7  | 59,6  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -     | -     | -     | -           | -     | -     | -     | -      | -     | -           | -     | -     | -     | -      | 56,5  | 55,0  |

 0 t 65 t 125 t 165 t 205 t 245 t 285 t 325 t

LVSL\_1:  11-19 m

LVSL\_3, LVSL\_4:  11-21 m

LVSL\_3 + LVSL\_4:  225 t +  50 t

# Operation

LVSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| 165 t + 50 t 11-21 m 18 m 15° 8,40 m 9.8 m/s 360° EN13000 |       |            |        |        |        |        |       |            |        |        |        |        |       |            |        |       |
|-----------------------------------------------------------|-------|------------|--------|--------|--------|--------|-------|------------|--------|--------|--------|--------|-------|------------|--------|-------|
| 84 m                                                      |       |            |        |        | 87 m   |        | 90 m  |            |        |        | 93 m   |        | 96 m  |            |        |       |
| LVSL_1                                                    |       | LVSL_3     | LVSL_4 | LVSL_3 | LVSL_4 | LVSL_1 |       | LVSL_3     | LVSL_4 | LVSL_3 | LVSL_4 | LVSL_1 |       | LVSL_3     | LVSL_4 |       |
| 0 t                                                       |       | 0 t - 325t |        |        |        | 0 t    |       | 0 t - 325t |        |        |        | 0 t    |       | 0 t - 325t |        |       |
| m                                                         | t     | t          | t      | t      | t      | t      | t     | t          | t      | t      | t      | t      | t     | t          | t      | t     |
| 17                                                        | 120,0 | 196,0      | 272,0  | 281,0  | -      | -      | -     | -          | -      | -      | -      | -      | -     | -          | -      | -     |
| 18                                                        | 112,0 | 196,0      | 272,0  | 281,0  | 258,0  | 270,0  | 108,0 | 175,0      | 245,0  | 247,0  | 231,0  | 244,0  | 103,0 | 157,0      | 223,0  | 236,0 |
| 20                                                        | 99,5  | 195,0      | 271,0  | 281,0  | 257,0  | 269,0  | 95,0  | 175,0      | 244,0  | 247,0  | 231,0  | 242,0  | 90,5  | 157,0      | 223,0  | 235,0 |
| 22                                                        | 88,0  | 194,0      | 270,0  | 281,0  | 255,0  | 268,0  | 84,0  | 173,0      | 242,0  | 247,0  | 230,0  | 241,0  | 80,0  | 156,0      | 223,0  | 233,0 |
| 24                                                        | 78,5  | 192,0      | 267,0  | 279,0  | 252,0  | 265,0  | 75,0  | 172,0      | 241,0  | 247,0  | 228,0  | 239,0  | 71,0  | 155,0      | 220,0  | 233,0 |
| 26                                                        | 70,0  | 190,0      | 265,0  | 276,0  | 250,0  | 263,0  | 66,5  | 170,0      | 239,0  | 247,0  | 225,0  | 238,0  | 63,0  | 153,0      | 219,0  | 230,0 |
| 28                                                        | 62,5  | 188,0      | 262,0  | 274,0  | 249,0  | 261,0  | 59,5  | 168,0      | 236,0  | 247,0  | 225,0  | 236,0  | 56,0  | 151,0      | 218,0  | 228,0 |
| 30                                                        | 56,0  | 186,0      | 259,0  | 271,0  | 247,0  | 258,0  | 53,0  | 166,0      | 234,0  | 246,0  | 223,0  | 233,0  | 50,0  | 149,0      | 215,0  | 226,0 |
| 34                                                        | 45,9  | 180,0      | 241,0  | 243,6  | 233,0  | 236,6  | 43,1  | 161,3      | 225,3  | 231,6  | 215,0  | 223,0  | 40,2  | 144,3      | 208,3  | 218,6 |
| 38                                                        | 37,0  | 173,0      | 218,6  | 217,0  | 214,0  | 213,0  | 34,4  | 156,0      | 211,6  | 213,3  | 203,6  | 207,3  | 31,6  | 139,3      | 200,3  | 206,3 |
| 42                                                        | 29,4  | 167,0      | 192,0  | 191,0  | 188,0  | 187,0  | 27,0  | 150,0      | 191,0  | 190,0  | 185,0  | 184,0  | 24,2  | 134,0      | 187,0  | 187,0 |
| 46                                                        | 22,6  | 154,3      | 172,0  | 171,0  | 168,0  | 167,0  | 21,1  | 143,3      | 171,0  | 170,0  | 165,6  | 164,6  | 18,4  | 128,0      | 168,3  | 167,6 |
| 50                                                        | 16,7  | 140,3      | 154,0  | 153,0  | 150,3  | 149,3  | 15,6  | 134,6      | 153,0  | 152,0  | 148,3  | 147,0  | 13,3  | 122,3      | 151,0  | 150,0 |
| 54                                                        | 11,5  | 125,0      | 138,0  | 137,0  | 135,0  | 134,0  | 10,4  | 124,0      | 137,0  | 136,0  | 133,0  | 131,0  | 8,8   | 117,0      | 135,0  | 134,0 |
| 58                                                        | 7,4   | 113,6      | 125,3  | 124,3  | 122,3  | 121,3  | 6,2   | 112,6      | 123,6  | 122,6  | 120,3  | 119,0  | 4,5   | 111,0      | 122,3  | 121,3 |
| 60                                                        | 5,4   | 108,0      | 119,0  | 118,0  | 116,0  | 115,0  | 4,2   | 107,0      | 117,0  | 116,0  | 114,0  | 113,0  | -     | 105,0      | 116,0  | 115,0 |
| 61                                                        | 4,5   | 105,0      | 116,5  | 115,5  | 113,5  | 112,5  | -     | 104,5      | 114,6  | 113,5  | 111,0  | 110,5  | -     | 102,6      | 113,0  | 112,0 |
| 62                                                        | -     | 102,7      | 114,0  | 113,0  | 111,0  | 110,0  | -     | 102,1      | 112,2  | 111,0  | 108,6  | 108,0  | -     | 100,3      | 110,0  | 109,6 |
| 66                                                        | -     | 93,5       | 104,0  | 103,0  | 101,0  | 100,0  | -     | 92,5       | 102,0  | 102,0  | 99,0   | 98,0   | -     | 91,0       | 101,0  | 100,0 |
| 70                                                        | -     | 85,8       | 95,0   | 94,3   | 92,6   | 91,6   | -     | 84,8       | 93,6   | 93,3   | 90,6   | 89,6   | -     | 83,3       | 92,3   | 91,3  |
| 74                                                        | -     | 78,6       | 87,3   | 86,3   | 84,8   | 84,0   | -     | 77,6       | 86,0   | 85,3   | 82,8   | 82,0   | -     | 76,1       | 84,3   | 83,3  |
| 78                                                        | -     | 72,0       | 80,0   | 79,0   | 77,5   | 77,0   | -     | 71,0       | 79,0   | 78,0   | 75,5   | 75,0   | -     | 69,5       | 77,0   | 76,0  |
| 82                                                        | -     | 66,6       | 73,6   | 72,3   | 71,5   | 70,6   | -     | 65,4       | 72,6   | 71,3   | 69,5   | 68,5   | -     | 63,6       | 70,6   | 69,6  |
| 86                                                        | -     | 61,5       | 66,0   | 64,5   | 65,0   | 63,9   | -     | 60,0       | 66,8   | 65,0   | 63,6   | 62,6   | -     | 58,5       | 64,6   | 63,3  |
| 90                                                        | -     | 53,5       | 57,0   | 55,5   | 57,0   | 55,5   | -     | 55,0       | 60,0   | 58,5   | 58,0   | 57,0   | -     | 53,5       | 59,0   | 57,0  |
| 92                                                        | -     | 49,5       | 54,0   | 52,0   | 52,9   | 51,5   | -     | 51,7       | 56,1   | 54,6   | 54,4   | 53,3   | -     | 51,1       | 55,9   | 54,2  |
| 94                                                        | -     | -          | -      | -      | 50,5   | 48,2   | -     | 48,5       | 52,2   | 50,8   | 50,8   | 49,6   | -     | 48,8       | 52,9   | 51,4  |
| 95                                                        | -     | -          | -      | -      | 49,4   | 47,2   | -     | 46,9       | 50,2   | 48,9   | 49,0   | 47,8   | -     | 47,6       | 51,4   | 50,0  |
| 98                                                        | -     | -          | -      | -      | -      | -      | -     | 41,6       | 45,0   | 43,1   | 43,6   | 42,3   | -     | 43,2       | 46,3   | 45,1  |
| 100                                                       | -     | -          | -      | -      | -      | -      | -     | -          | -      | -      | 41,4   | 39,2   | -     | 40,0       | 42,8   | 41,6  |
| 102                                                       | -     | -          | -      | -      | -      | -      | -     | -          | -      | -      | -      | -      | -     | 36,8       | 39,3   | 38,1  |
| 103                                                       | -     | -          | -      | -      | -      | -      | -     | -          | -      | -      | -      | -      | -     | 35,2       | 37,7   | 36,3  |

 0 t  65 t  125 t  165 t  205 t  245 t  285 t  325 t

LVSL\_1:  11-19 m

LVSL\_3, LVSL\_4:  11-21 m

LVSL\_3 + LVSL\_4:  225 t +  50 t

# Operation

LVSL

Einsatz · Utilisation · Funzionamento · Uso ·  
Operação · Эксплуатация

| <div><div><div><div></div></div><div>165 t +</div><div><div><div></div></div><div>50 t</div></div><div><div><div></div></div><div>11-21 m</div></div><div><div><div></div></div><div>18 m</div></div><div><div><div></div></div><div>15°</div></div><div><div><div></div></div><div>8,40 m</div></div><div><div><div></div></div><div>9.8 m/s</div></div><div><div><div></div></div><div>360°</div></div><div>EN13000</div></div></div>                                                                                                                                                                                                                                                                   |       |       |      |       |       |       |       |       |      |       |       |       |     |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|------|-------|-------|-------|-------|-------|------|-------|-------|-------|-----|
| <div><div><div><div></div></div><div>99 m</div><div><div>LVSL_3</div><div>LVSL_4</div></div></div><div><div><div></div></div><div>102 m</div><div><div>LVSL_1</div><div>LVSL_3</div><div>LVSL_4</div></div></div><div><div><div></div></div><div>105 m</div><div><div>LVSL_3</div><div>LVSL_4</div></div></div><div><div><div></div></div><div>108 m</div><div><div>LVSL_1</div><div>LVSL_3</div><div>LVSL_4</div></div></div></div> <div><div><div></div></div><div>0 t - 325t</div></div> <div><div><div></div></div><div>0 t</div></div> <div><div><div></div></div><div>0 t - 325t</div></div> <div><div><div></div></div><div>0 t</div></div> <div><div><div></div></div><div>0 t - 325t</div></div> |       |       |      |       |       |       |       |       |      |       |       |       |     |
| m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | t     | t     | t    | t     | t     | t     | t     | t     | t    | t     | t     | t     | m   |
| 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 211,0 | 223,0 | 92,5 | 140,0 | 200,0 | 212,0 | 188,0 | 200,0 | 88,0 | 125,0 | 181,0 | 193,0 | 19  |
| 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 211,0 | 223,0 | 86,5 | 140,0 | 200,0 | 211,0 | 188,0 | 200,0 | 82,5 | 125,0 | 181,0 | 193,0 | 20  |
| 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 211,0 | 222,0 | 76,5 | 139,0 | 200,0 | 210,0 | 188,0 | 199,0 | 72,5 | 124,0 | 181,0 | 193,0 | 22  |
| 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 209,0 | 220,0 | 67,5 | 138,0 | 200,0 | 209,0 | 188,0 | 199,0 | 64,0 | 123,0 | 181,0 | 192,0 | 24  |
| 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 208,0 | 218,0 | 60,0 | 137,0 | 198,0 | 209,0 | 187,0 | 198,0 | 56,5 | 122,0 | 181,0 | 191,0 | 26  |
| 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 206,0 | 217,0 | 53,0 | 134,0 | 196,0 | 207,0 | 186,0 | 196,0 | 50,0 | 120,0 | 179,0 | 189,0 | 28  |
| 30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 204,0 | 215,0 | 47,2 | 132,0 | 195,0 | 205,0 | 184,0 | 194,0 | 44,1 | 118,0 | 177,0 | 188,0 | 30  |
| 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 198,6 | 208,6 | 37,4 | 128,6 | 189,6 | 199,0 | 179,6 | 190,0 | 34,5 | 114,6 | 173,3 | 183,0 | 34  |
| 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 192,3 | 198,6 | 28,9 | 124,3 | 184,3 | 192,0 | 174,6 | 183,0 | 26,2 | 110,6 | 167,6 | 177,3 | 38  |
| 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 183,0 | 182,0 | 21,7 | 119,0 | 179,0 | 180,0 | 170,0 | 175,0 | 19,0 | 106,0 | 163,0 | 172,0 | 42  |
| 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 163,0 | 162,0 | 16,1 | 113,6 | 164,3 | 164,0 | 157,3 | 158,3 | 13,4 | 101,3 | 154,3 | 158,0 | 46  |
| 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 145,3 | 144,3 | 11,0 | 108,3 | 149,3 | 148,3 | 143,3 | 142,3 | 8,4  | 96,6  | 144,0 | 144,3 | 50  |
| 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 133,8 | 132,8 | 7,6  | 104,3 | 137,8 | 136,8 | 131,8 | 130,8 | 5,0  | 93,0  | 135,0 | 134,3 | 53  |
| 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 130,0 | 129,0 | 6,5  | 103,0 | 134,0 | 133,0 | 128,0 | 127,0 | -    | 92,0  | 132,0 | 131,0 | 54  |
| 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 123,5 | 122,5 | 4,5  | 101,0 | 127,6 | 126,6 | 121,3 | 120,0 | -    | 89,5  | 125,6 | 124,6 | 56  |
| 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 117,0 | 116,0 | -    | 98,2  | 121,3 | 120,3 | 115,0 | 114,0 | -    | 87,0  | 119,2 | 118,2 | 58  |
| 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 106,1 | 105,1 | -    | 92,8  | 109,4 | 108,8 | 104,0 | 103,0 | -    | 82,0  | 108,0 | 107,1 | 62  |
| 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 96,5  | 95,5  | -    | 87,5  | 99,0  | 98,5  | 94,0  | 93,0  | -    | 77,0  | 98,0  | 97,5  | 66  |
| 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 88,1  | 87,1  | -    | 81,1  | 90,6  | 89,8  | 85,6  | 84,6  | -    | 72,0  | 89,0  | 87,8  | 70  |
| 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 80,5  | 79,5  | -    | 74,6  | 82,8  | 81,6  | 77,9  | 77,0  | -    | 67,2  | 80,8  | 79,3  | 74  |
| 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 73,5  | 72,5  | -    | 68,0  | 75,5  | 74,0  | 71,0  | 70,0  | -    | 62,5  | 73,5  | 72,0  | 78  |
| 82                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 67,5  | 66,5  | -    | 62,3  | 69,0  | 67,0  | 65,0  | 64,0  | -    | 58,1  | 66,7  | 65,3  | 82  |
| 86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 61,8  | 60,8  | -    | 57,0  | 62,8  | 60,5  | 59,3  | 58,3  | -    | 53,8  | 60,5  | 59,0  | 86  |
| 90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 56,5  | 55,5  | -    | 52,0  | 56,5  | 54,5  | 54,0  | 53,0  | -    | 49,5  | 54,5  | 53,0  | 90  |
| 94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 50,6  | 49,5  | -    | 47,6  | 51,5  | 49,3  | 49,6  | 48,1  | -    | 45,2  | 49,3  | 47,6  | 94  |
| 98                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 44,4  | 43,1  | -    | 43,4  | 46,5  | 44,4  | 44,2  | 42,7  | -    | 41,0  | 44,3  | 42,6  | 98  |
| 102                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 37,9  | 36,7  | -    | 38,3  | 41,2  | 40,0  | 38,2  | 37,1  | -    | 37,0  | 39,7  | 38,0  | 102 |
| 105                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 33,9  | 32,2  | -    | 33,9  | 36,4  | 35,2  | 33,8  | 32,7  | -    | 33,7  | 36,3  | 34,9  | 105 |
| 106                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -    | 32,4  | 34,8  | 33,6  | 32,4  | 31,3  | -    | 32,6  | 35,2  | 33,9  | 106 |
| 108                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -    | 29,5  | 31,6  | 30,4  | 29,5  | 28,4  | -    | 30,5  | 33,0  | 31,8  | 108 |
| 110                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -    | -     | -     | -     | 26,9  | 25,5  | -    | 27,8  | 30,0  | 28,9  | 110 |
| 111                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -    | -     | -     | -     | 26,1  | 24,5  | -    | 26,5  | 28,6  | 27,4  | 111 |
| 113                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | -     | -     | -    | -     | -     | -     | -     | -     | -    | 23,9  | 25,7  | 24,6  | 113 |

## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания



# Notes to Lifting Capacity

Anmerkungen zu den Tragfähigkeiten · Conditions d'utilisation ·

Annotazioni sulle portate · Condiciones de utilización ·

Notas sobre capacidade de içamento · Примечания по грузоподъемности

Ratings are in compliance with EN 13000.

Weight of hook blocks and slings is part of the load, and is to be deducted from the capacity ratings.  
Consult operation manual for further details.

**Note:** Data published herein is intended as a guide only and shall not be construed to warrant applicability for lifting purposes.  
Crane operation is subject to the computer charts and operation manual both supplied with the crane.

In some instances the superlift counterweight does not lift off the ground with the indicated load.

---

Tragfähigkeiten entsprechen EN 13000.

Das Gewicht der Unterflaschen, sowie die Lastaufnahmemittel, sind Bestandteile der Last und sind von den Tragfähigkeitsangaben abzuziehen.

Weitere Angaben in der Bedienungsanleitung des Kranes.

**Anmerkung:** Die Daten dieser Broschüre dienen nur zur allgemeinen Information; für ihre Richtigkeit übernehmen wir keine Haftung.  
Der Betrieb des Kranes ist nur mit den Original-Tragfähigkeitstabellen und mit der Bedienungsanleitung zulässig, die mit dem Kran mitgeliefert werden.

In einigen Fällen hebt das Superliftgegengewicht bei den angegebenen Traglasten nicht ab.

---

Le tableau de charges est conforme à la norme EN 13000.

Les poids du crochet-moufle et de tous les accessoires d'élingage font partie de la charge et sont à déduire des charges indiquées.  
Pour plus de détails consulter la notice d'utilisation de la grue.

**Nota :** Les renseignements ci-inclus sont donnés à titre indicatif et ne représentent aucune garantie d'utilisation pour les opérations de levage. La mise en service de la grue n'est autorisée qu'à condition que les tableaux de charges ainsi que le manuel de service, tels que fournis avec la grue, soient observés.

Le contrepoids du superlift ne décolle pas dans certaines configurations des tableaux de charge.

---

Le portate sono conformi alla norma EN 13000.

Il peso del bozzello e delle funi d'attacco fanno parte del carico e sono quindi da detrarre dai valori di tabella.  
Per ulteriori dettagli sulla velocità vento, consultare il manuale di istruzione della gru.

**Nota:** I dati riportati su tale prospetto sono solo a titolo indicativo e pertanto non impegnativi. L'impiego della gru è ammesso solo rispettando le tabelle originali ed il manuale di uso fornito assieme alla gru.

In alcuni casi, con il carico indicato, il contrappeso Superlift non si solleva dal suolo.

---

Las capacidades de carga están sujetas a las normas EN 13000.

El peso de los ganchos y eslingas son parte de la carga y serán deducidos de las capacidades brutas.  
Consultar los manuales de operación para ampliar información.

**Observación:** Los datos publicados son solamente orientativos y no se deben interpretar como garantía de aplicación para determinadas operaciones de elevación. La manipulación de la grúa está sujeta a las cargas programadas en el ordenador y en el manual de operaciones, ambos suministrados con la grúa.

En algunos casos, el contrapeso superlift no se eleva del suelo con la carga indicada.

---

Valores nominais de acordo com a EN 13000.

O peso dos moitões e eslingas faz parte da carga e tem de ser subtraído das capacidades nominais.  
Consultar manual de operação para outros detalhes.

**Nota:** Os dados publicados aqui destinam-se a simples orientação e não devem ser interpretados como garantia de aplicabilidade para fins de içamento. A operação da grua depende de tabelas de computador e do manual de operação, ambos fornecidos com a máquina.

Em alguns casos, o contrapeso do Superlift não levanta do solo com a carga indicada.

---

Номинальные значения соответствуют EN 13000.

Вес крюкоблока и строп является частью груза и должен вычитаться из номинальных значений грузоподъемности.  
Подробности см. в руководстве по эксплуатации.

**Примечание.** Публикуемые в настоящем издании данные приводятся только для справки и не должны использоваться при расчете нагрузки. При эксплуатации крана должны применяться компьютерные таблицы и руководство по эксплуатации, входящие в комплект поставки крана.

В некоторых случаях противовес системы суперлифт не может быть поднят с земли с указанной нагрузкой.

# TECHNICAL DESCRIPTION

TECHNISCHE BESCHREIBUNG

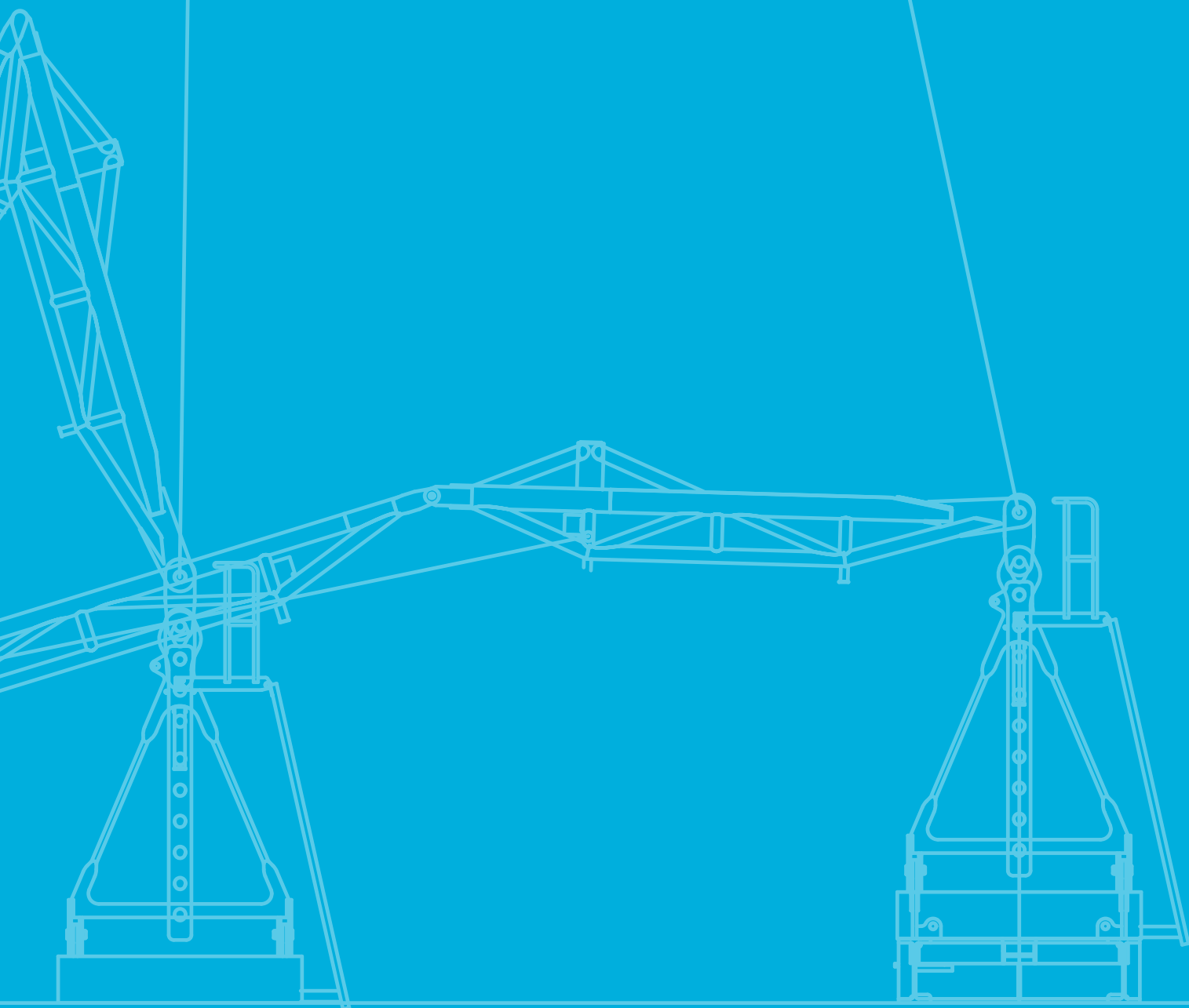
DESCRIPTIF TECHNIQUE

DESCRIZIONE TECNICA

DESCRIPCIÓN TÉCNICA

DESCRIÇÃO TÉCNICA

ТЕХНИЧЕСКОЕ ОПИСАНИЕ



# Technical Description

## Crawler carrier

3-section carrier comprising of carbody and two crawlers. Hydraulic pin connections between crawlers and carbody provide for easy assembly and removal to minimise width and weight for transportation. Track width: 8.40 m.

|                       |                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Carbody</b>        | Bending- and torsion-resistant welded structure of box type construction, fabricated of high-strength fine grain structural steel.                                                                                                                                                                                                                                                                             |
| <b>Crawlers</b>       | Bending-resistant welded structure of high-strength fine grain structural steel. Automatic centralised lubrication is included as standard. 16 rollers on each side frame with hardened rolling surfaces. Raised position for both drive sprockets and idler wheels, drive sprockets and idler wheels provide load bearing capacity for erection, adjustable track tension. Crawler pads: 1.50 m wide.         |
| <b>Crawler drive</b>  | The tracks are powered by one hydraulic motor each through closed planetary gear reduction units running in oil bath, equipped with spring-applied hydraulically released holding brakes; the gear units are of very compact design to fit within the width of the crawlers. Each crawler is infinitely variable controlled, both independently and in opposite direction. Tractive effort: 1,400 kN per side. |
| <b>Assembly jacks</b> | Four hydraulic jacking cylinders on carbody (folding within 3 m width) for easy assembly of crawlers.                                                                                                                                                                                                                                                                                                          |

## Superstructure

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Counterweight</b>                      | 205 t (max. 225 t) counterweight on superstructure combination with 50 t central ballast. Steelbox type. Weight of counterweight blocks: 10 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Total weight</b>                       | Approx. 390 t, incl. 165 t counterweight, 24 m SH_1 boom and hook block.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Travel speed on crawlers</b>           | Max. 1,1 km/h.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Reeving winch</b>                      | Mounted on superstructure.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Frame</b>                              | Torsion-resistant welded structure fabricated of high-strength fine grain structural steel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Slew ring</b>                          | Triple-row roller bearing slew ring with external ring gear for ease of service and maintenance. Central lubrication system.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Drive<br/>EU Stage V / EPA Tier 4f</b> | Mercedes-Benz diesel engine, type OM471LA, 6 cylinder, 390 kW (523 HP) at 1600 1/min, torque 2600 Nm at 1300 1/min. The engine complies with emission standard EU Stage V / EPA Tier 4f. Pump distribution gearbox with six variable displacement axial piston pumps and additional gear pumps. Stainless steel exhaust system with particle filter, SCR catalyzer and spark arrestor certificate. Sound insulation covering. Fuel: 1217 l, AdBlue: 85 l.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Rope drums</b>                         | The standard superstructure equipment includes three rope drums – hoist 1, 2 and boom hoist. The drums are powered by hydraulic motors through closed planetary gear units running in oil bath. All rope drums have spring-applied, hydraulically released multi-disk brakes and non-wearing hydraulic braking for load lowering. Rope ends H 1, 2, 3 and W 1, 2 equipped with quick-connect rope end-fittings. All winches are removable to minimise weight for transportation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>A-frame</b>                            | Hydraulic raising systems for A-frame as standard. A-frame, boom hoist and sheave sets for boom hoist can be dismantled as one single transport unit to minimise transport weight. Dismantling of hoist 1 and 2 possible without removing A-frame first.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Slew unit</b>                          | Powered by hydraulic motors through 2 closed, planetary gear units running in oil bath. Spring-applied, hydraulically released holding brakes and non-wearing hydraulic braking. Slew speed infinitely variable 0-1 rpm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Control system</b>                     | IC-1: Electronic proportional valve pilot control integrated in stored-program control system incl. diagnostic system. Two monitors with colour displays, load moment indicator operated via a touch screen. Working speeds infinitely variable controlled by the lever position. Automatic power control for optimal utilisation of engine output; emergency control systems.<br><br>Additional functions:<br><ul style="list-style-type: none"> <li>• Infinitely variable position of Superlift counterweight with the optional adjustable Superlift system 11-19 m</li> <li>• Infinitely variable position of main boom angle in SWSL configuration 55-87° (65-87° in SW configuration)</li> <li>• Working area limitation</li> <li>• Diagnosis and troubleshooting</li> <li>• User defined joystick mode</li> </ul> <p>The crane is controlled by joystick levers ergonomically positioned in the crane cab. Wireless rigging remote control. Wireless emergency remote control.</p> |
| <b>Cab</b>                                | Comfortable cab with large windscreen and air condition. Shatterproof-glazing all around, roof window, self-contained hot air heater, full instrumentation and crane controls. Infinitely adjustable operator seat, emergency seat, multiple storage areas, 12-V power plug. The cab can be tilted back for improved operator view of boom point. A camera system is installed to monitor the rope drums. Front window can be opened. Dashboard can be adjusted for optimum ergonomics and view. Front wiper with resting position outside of window area for optimum view. For transportation, the cab swings hydraulically in front of the superstructure to minimise width.                                                                                                                                                                                                                                                                                                           |

# Technical Description

|                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Electrical equipment</b>                                               | 24 V DC. system (2 x batteries 12 V, 200 Ah).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Operator aids</b>                                                      | Load moment indicator integrated in IC-1 control (load moment, radius, angles, engine and hydraulic system monitoring), hoist limit switch, limit switches for boom movements, hydraulic boom backstop, position light, anemometer.                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Boom combinations</b>                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| See page 18-25.                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Optional equipment</b>                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Engine ECE R96</b>                                                     | <b>Optional for non-regulated markets:</b> Mercedes-Benz diesel engine, type OM471 LA, 6 cylinder, 390 kW (523 HP) at 1700 1/min, torque 2460 Nm at 1300 1/min. The engine complies with emission standard ECE R96 (similar to EU Stage III / EPA Tier 3). Stainless steel exhaust system with spark arrestor certificate. Fuel: 1217 l.                                                                                                                                                                                                                                                             |
| <b>Hydraulic quick connection</b>                                         | Allows for quick separation of superstructure from carrier (thus reducing transport weight).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Crawler pads</b>                                                       | 2.0 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Quadro drive</b>                                                       | 2 drives for each crawler carrier 2600 kN tractive force – at reduced drive speed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Alternative counterweights made of cast iron</b>                       | Reduced overall height (see page 14).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Alternative counterweight segmentation 10 t + 7.5 t or 10 t + 15 t</b> | For optimized transport in certain markets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Hydraulic cylinder on A-frame</b>                                      | For self-assembly of crawler carrier.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Hydraulic cylinder with or without hydraulic unit</b>                  | For boom pinning.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Additional lateral outrigger system</b>                                | For erection of long boom systems.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Boom Booster Kit</b>                                                   | Consists of 2 x 12 m adapter sections and up to 7 x 12 m inserts. Available in length 24 m, 48 m, 60 m, 84 m, 108 m. Extension of Superlift mast from 36 m to 39.5 m or 42 m.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Flex frame</b>                                                         | Infinite positioning of Superlift counterweight from 13-21 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Split tray</b>                                                         | Superlift tray frame with removable platform underneath the center stack of counterweights (center stack max. 125 t).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Standard SL</b>                                                        | 36 m Superlift mast incl. hoist W2.<br>SL pendant bars, mast back stop cylinders, SL tray.<br>Superlift counterweight 0 t at radius 9 m or 0-325 t on counterweight tray at fixed radii 11 m, 13 m, 15 m, 17 m and 19 m.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Variable SL</b>                                                        | Variable 36 m Superlift mast (see Standard SL).<br>Additional vertical hydraulic cylinders and stabilisation winch on superstructure (prevents weaving of counterweight especially when traveling and slewing). Height compensation using the cylinders, lifting across obstacles possible to a certain extent. Superlift counterweight 0 t at radius 9 m or 0-325 t on counterweight tray, indefinitely variable from 11-19 m.                                                                                                                                                                      |
| <b>SL counterweight carrier</b>                                           | Superlift mast (see Standard SL). Telescopic frame and counterweight carrier for total weight of 325 t, with 4 wheels / 2 axles (driven and steered – full manoeuvrability for slewing, trailing, and parallel modes). Superlift counterweight 40-325 t on counterweight carrier with fixed mast radius approx. 16 m; infinitely adjustable from 13-17 m or 17-19 m resp. with telescopic frame. The counterweight carrier allows for traveling or slewing even when the Superlift counterweight does not lift off the ground (e.g. crane with loads as indicated by load chart values in brackets). |
| <b>Hoist H3</b>                                                           | Additional hoist for main boom (to operate LF or runner), line pull same as H1, length 650 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Runner</b>                                                             | Max. lifting capacity 54 t. Mounted on boom head and boom/jib top.<br>Operation by hoist rope 3 (see variable SL).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Runner for LF standard</b>                                             | Max. lifting capacity 18 t. Operated by rope 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Special LF linkage head</b>                                            | Without sheave set for higher lifting capacities when using LF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>3 m intermediate section</b>                                           | For 3 m intermediate lengths.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

# Technische Beschreibung

## Raupenunterwagen

3-teiliger Raupenunterwagen bestehend aus Mittelstück und zwei Raupenträgern. Mittelstück und Raupen werden hydraulisch verbolzt und sind einfach demontierbar zum Erreichen günstiger Transportabmessungen und Gewichte. Spurbreite: 8,40 m.

|                          |                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Mittelstück</b>       | Biege- und verwindungssteife Kastenprofil-Schweißkonstruktion aus hochfestem Feinkornbaustahl.                                                                                                                                                                                                                                                                                                     |
| <b>Raupen</b>            | Biegesteife Schweißkonstruktion aus hochfestem Feinkornbaustahl. Automatische Zentralschmieranlage serienmäßig. 16 Laufrollen pro Seitenrahmen mit gehärteten Laufflächen. Erhöhte Lagerung von Turas und Leitrad, für Aufrichten als erweiterbare Basis nutzbar, einstellbare Kettenspannung. Bodenplatten: 1,50 m breit.                                                                         |
| <b>Raupenantrieb</b>     | Die Raupen werden von je einem Hydromotoren über geschlossene, ölbadgeschmierte Planetengetriebe mit federbelasteten, hydraulisch gelösten Haltebremsen angetrieben; die Antriebseinheiten sind sehr kompakt konzipiert, um die Breite der Raupen nicht zu überschreiten. Die Raupen können unabhängig voneinander, auch gegenläufig, stufenlos geregelt werden. Antriebskraft: 1400 kN pro Seite. |
| <b>Montageabstützung</b> | Vier hydraulische Stützzyylinder am Mittelstück (innerhalb 3 m Transportbreite anklappbar) zur einfachen Montage der Raupen.                                                                                                                                                                                                                                                                       |

## Oberwagen

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gegengewicht</b>                         | 205 t (max. 225 t) auf Oberwagen in Verbindung mit 50 t Zentralballast. Stahlkastenausführung. Gewicht der Blöcke 10 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gesamtgewicht</b>                        | Ca. 390 t, einschl. 165 t Gegengewicht, 24 m SH_1 Hauptausleger und Unterflasche.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Fahrgeschwindigkeit auf Ketten</b>       | Max. 1,1 km/h.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Einscherwinde</b>                        | Auf Oberwagen angebaut.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Rahmen</b>                               | Verformungssteife Schweißkonstruktion aus hochfestem Feinkornbaustahl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Drehkranz</b>                            | 3-reihige Rollendrehverbindung mit Außenzahnkranz für einfache Wartung. Zentralschmierung.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Antrieb<br/>EU Stage V / EPA Tier 4f</b> | Mercedes-Benz Dieselmotor, Typ OM471 LA, 6 Zylinder, 390 kW (523 PS) bei 1600 1/min., Drehmoment 2600 Nm bei 1300 1/min. Der Motor entspricht der Emissionsnorm EU Stage V / EPA Tier 4f. Pumpenverteilergetriebe mit sechs verstellbaren Axialkolbenpumpen und zusätzlichen Zahnradpumpen. Edelstahl-Abgasanlage mit Partikelfilter, SCR-Katalysator und Funkenfängerzertifikat. Motorabdeckung mit Schallisolierung. Kraftstoff: 1217 l, AdBlue: 85 l.                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Seilwinden</b>                           | Der Oberwagen ist serienmäßig mit drei Seilwinden – Hubwerk 1, Hubwerk 2 und Einziehwerk – ausgerüstet. Der Antrieb der Winden erfolgt durch Hydromotoren mit geschlossenen, ölbadgeschmierten Planetengetrieben. Alle Seilwinden sind mit federbelasteten, hydraulisch freigegebenen Lamellenbremsen und verschleißfreier, hydraulischer Bremsung für die Lastabsenkung ausgestattet. Die Seilenden der Winden H 1, 2, 3 und W 1, 2 sind mit Pressfitting und Taschen ausgestattet. Alle Winden sind zur Minimierung des Transportgewichtes demontierbar.                                                                                                                                                                                                                                                                                                               |
| <b>A-Bock</b>                               | Hydraulische A-Bock-Umlage serienmäßig. A-Bock zur Minimierung des Transportgewichtes gemeinsam mit Einziehwerk und Rollensätzen als komplette Transporteinheit demontierbar. Hubwerk 1 und 2 können ohne vorherige Demontage des A-Bocks demontiert werden.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Drehwerk</b>                             | Antrieb durch Hydromotoren über 2 geschlossene, ölbadgeschmierte Planetengetriebe. Federbelastete, hydraulisch freigegebene Haltebremse und verschleißfreie hydraulische Bremsung. Drehgeschwindigkeit stufenlos einstellbar von 0-1 1/min.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Steuerung</b>                            | IC-1: Elektronische Proportionalventilvorsteuerung integriert in speicherprogrammierte Steuerung mit Fehlerdiagnose. Zwei Farbbildschirme, Lastanzeige, Bedienung über Touchscreen. Stufenlos über Hebelposition regelbare Arbeitsgeschwindigkeiten. Antriebs-Leistungsregelung für optimale Nutzung der Motorleistung; Notsteuerung.<br><br>Zusatzfunktionen:<br><ul style="list-style-type: none"> <li>• Stufenlos einstellbare Position des Superlift-Gegengewichts mit dem Superlift-Verstellsystem 11-19 m (optional)</li> <li>• Hauptauslegerwinkel in SWSL-Konfiguration stufenlos von 55-87° verstellbar (SW: 65-87°)</li> <li>• Arbeitsbereichsbegrenzung</li> <li>• Diagnose und Fehlersuche</li> <li>• Nutzerdefinierter Joystickmodus</li> </ul> Kransteuerung durch ergonomisch angeordnete Joysticks. Funkfernsteuerung zum Rüsten. Not-Funkfernsteuerung. |
| <b>Kabine</b>                               | Komfortkabine mit großzügig dimensionierter Frontscheibe und Klimaanlage. Sicherheitsverglasung rundum, Dachfenster, motorunabhängige Warmluftheizung, Steuer- und Kontrollelemente für die Kranfunktionen. Stufenlos einstellbarer Fahrersitz, Notsitz, vielfältige Ablagemöglichkeiten, 12 V-Steckdose. Die Kabine ist zur Sichtverbesserung nach hinten neigbar. Zur Überwachung der Winden ist ein Kamerasystem installiert. Frontfenster kann geöffnet werden. Armaturenbrett für beste Sicht und Ergonomie einstellbar. Front-Wischerruhestellung außerhalb des Fensters für optimale Sicht. Während des Transportes ist die Kabine zur Minimierung der Gesamtbreite vor den Oberwagen hydraulisch geschwenkt.                                                                                                                                                     |

# Technische Beschreibung

|                                 |                                                                                                                                                                                                                                       |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Elektrische Anlage</b>       | Betriebsspannung 24 V (2 Batterien 12 V / 200 Ah).                                                                                                                                                                                    |
| <b>Sicherheitseinrichtungen</b> | Lastmomentbegrenzer in IC-1 integriert (Lastmoment, Ausladung, Winkel, Motor- und Hydrauliküberwachung), Hubendschalter, Endschalter für Auslegerbewegungen, hydraulische Ausleger-Rückfallsicherungen, Positionsleuchte, Windmesser. |

## Ausleger-Kombinationen

Siehe Seite 18-25.

## Zusatzausrüstung

|                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motor ECE R96</b>                                                     | <b>Optional für nicht regulierte Märkte:</b> Mercedes-Benz Dieselmotor, Typ OM471LA, 6 Zylinder, 390 kW (523 PS) bei 1700 1/min., Drehmoment 2460 Nm bei 1300 1/min. Der Motor entspricht der Emissionsnorm ECE R96 (vergleichbar zu EU Stage III / EPA Tier 3). Edelstahl-Abgasanlage mit Funkenfängerzertifikat. Kraftstoff: 1217 l.                                                                                                                                                                                                                              |
| <b>Hydraulische Schnellverbindung</b>                                    | Für schnelle Trennung von Oberwagen und Unterwagen (Reduzierung Transportgewichte).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Bodenplatten</b>                                                      | 2,0 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Quadro-Antrieb</b>                                                    | 2 Antriebe pro Raupenträger: Vortriebskraft 2600 kN – bei reduzierter Fahrgeschwindigkeit.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Alternative Gegengewichte aus Guß</b>                                 | Verringerte Bauhöhe (vergleiche Seite 14).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Alternative Gegengewichtsstückelung 10 t + 7,5 t oder 10 t + 15 t</b> | Zur Transportoptimierung in bestimmten Märkten.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Hydraulikzylinder am A-Bock</b>                                       | Für Raupenträgerselbstmontage.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Hydraulikzylinder mit oder ohne Hydraulikaggregat</b>                 | Für Auslegerverbolzung.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Zusatzabstützung seitlich</b>                                         | Zum Aufrichten langer Auslegersysteme.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Boom Booster Kit</b>                                                  | Besteht aus 2 x 12 m Adaptersegmenten und bis zu 7 x 12 m Einsätzen.<br>Verfügbare Längen: 24 m, 48 m, 60 m, 84 m, 108 m.<br>Verlängerung des Superlift-Masts von 36 m auf 39,5 m oder 42 m.                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Flex frame</b>                                                        | Stufenlose Positionierung des Superlift-Gegengewichts von 13 m bis 21 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Split tray</b>                                                        | Superlift-Traversenrahmen mit demontierbarer Plattform unterhalb des mittigen Gegengewichtstapels (mittiger Stapel max. 125 t).                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Standard SL</b>                                                       | 36 m Superlift-Mast inkl. Winde W2.<br>SL Abspannstangen, Mast-Rückfallzylinder, SL-Traverse.<br>Superlift-Gegengewicht 0 t auf Radius 9 m oder 0-325 t auf Gegengewichts-Traverse mit fest eingestellten 11 m, 13 m, 15 m, 17 m, 19 m.                                                                                                                                                                                                                                                                                                                             |
| <b>Variabler SL</b>                                                      | 36 m Superlift-Mast (siehe Standard SL).<br>Zusätzliche, vertikale Hydraulikzylinder und Stabilisierungswinde auf dem Oberwagen (verhindert Pendeln des Gegengewichts, insbesondere beim Verfahren und Schwenken). Höhenausgleich mittels Zylinder, Hub über Störkanten / Hindernisse hinweg in bestimmten Grenzen möglich. Superlift-Gegengewicht 0 t auf Radius 9 m oder 0-325 t auf Gegengewicht-Traverse einstellbar stufenlos von 11-19 m.                                                                                                                     |
| <b>SL-Gegengewichtswagen</b>                                             | Superlift-Mast (siehe Standard SL). Teleskoprahmen und Gegengewichtswagen für 325 t Gesamtgewicht, 4 Räder / 2 Achsen (angetrieben und gelenkt – voll manövrierbar in Fahrzuständen Drehen, Hinterherfahrt und Nachlauf). Superlift-Gegengewicht 40-325 t auf Gegengewichtswagen mit festem Mastradius ca. 16 m; stufenlos einstellbar von 13-17 m bzw. 17-19 m mit Teleskoprahmen. Der Gegengewichtswagen erlaubt Fahren und Drehen, auch wenn das Superliftgegengewicht nicht vom Boden abhebt (Beispiel: Kran mit Last am Haken bei Tabellenwerten in Klammern). |
| <b>Seilwinde H3</b>                                                      | Zusätzliche Seilwinde im Hauptausleger (zum Betrieb an LF oder Runner), Seilzug wie H1, Länge 650 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Runner</b>                                                            | Max. Traglast 54 t. Montage auf Auslegerkopf und Ausleger-/Hilfsauslegerspitze.<br>Betrieb durch Hubseil 3 (siehe Variabler SL).                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Runner für LF serienmäßig</b>                                         | Max. Traglast 18 t. Betrieb durch Hubseil 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Spezieller LF-Anlenkkopf</b>                                          | Ohne Rollensatz für höhere Tragfähigkeiten am LF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>3 m-Zwischenstück</b>                                                 | Für 3 m-Zwischenlängen.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |



# Descriptif technique

## Châssis à chenilles

Le châssis à chenilles consiste en trois parties – deux chenilles et la partie centrale. Les chenilles et la partie centrale sont verrouillées hydrauliquement facilitant ainsi le montage et le démontage pour diminuer la largeur d'encombrement et le poids de transport. Largeur de chenille : 8,40 m.

|                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Partie central</b>             | Construction mécano-soudée, rigide à la flexion et à la torsion, sous forme de caissons en acier de construction de haute résistance à grains fins.                                                                                                                                                                                                                                                                                                                           |
| <b>Chenilles</b>                  | Construction mécano-soudée rigide à la flexion, réalisée en acier de construction de haute résistance à grains fins. Graissage centralisé automatique inclus de série. Chaque chenille est équipée de 16 galets d'appui dont les surfaces de roulement sont trempées. Position rehaussée pour les barbotins d'entraînement et les roues folles, garantes de la capacité de charge pendant le relevage, tension des chenilles réglable. Patins de chenilles : 1,50 m de large. |
| <b>Entraînement des chenilles</b> | Les chenilles sont entraînées par un moteur hydraulique de chaque côté, muni de réducteurs planétaires sous bain d'huile, en carter étanche, avec freins d'arrêt à commande par ressorts, à desserrage hydraulique. Grâce à leur faible encombrement, les réducteurs s'intègrent complètement dans la largeur des chenilles. Chaque chenille permet un mouvement individuel et opposé. Force de traction : 1400 kN par côté.                                                  |
| <b>Vérin de montage</b>           | Quatre vérins de montage hydrauliques sur la partie centrale (repliable sans excéder la largeur de 3 m) pour un assemblage aisé des chenilles.                                                                                                                                                                                                                                                                                                                                |

## Partie supérieure

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrepoids</b>                           | Contrepoids de 205 t (max. 225 t) sur la tourelle, en combinaison avec 50 t de lest central. Structure d'acier caissonnée pleine. Poids des blocs de contrepoids : 10 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Poids total</b>                           | Env. 390 t, avec 165 t de contrepoids, flèche de 24 m SH_1 et crochet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Vitesse de translation sur chenilles</b>  | 1,1 km/h maximum.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Tambour de mouflage</b>                   | Monté sur la partie tournante.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Charpente</b>                             | Structure mécano-soudée résistante à la torsion, en acier grain fin haute résistance.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Couronne d'orientation</b>                | Couronne d'orientation à trois rangées de rouleaux avec couronne dentée externe pour une maintenance simplifiée. Graissage automatique centralisé.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Entraînement EU Stage V / EPA Tier 4f</b> | Moteur diesel Mercedes-Benz, type OM471LA, 6 cylindres, 390 kW (523 HP) à 1600 tr/min. Couple de 2600 Nm à 1300 tr/min. Le moteur satisfait aux normes Stage V de l'UE / Tier 4f de l'APE en matière d'émissions. Boîte de distribution des pompes avec six pompes à pistons axiaux et cylindrée variable ; pompes à engrenage supplémentaires. Système d'échappement en acier inoxydable avec filtre à particules, catalyseur SRC et pare-étincelles certifié. Capot d'isolation sonore. Carburant : 1217 l ; AdBlue : 85 l.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Treuil</b>                                | L'équipement standard de la partie tournante inclut trois tambours – treuil no 1, treuil no 2 et mécanisme de relevage. Les tambours sont entraînés par des moteurs hydrauliques munis de réducteurs planétaires, sous bain d'huile, en carter étanche. Tous les tambours sont dotés de freins multidisques à commande par ressort et desserrage hydraulique et disposent d'une fonction de freinage hydraulique inusable pour l'abaissement de la charge. Les pattes de câble H 1, 2, 3 et W 1, 2 sont équipées des attaches à jonction rapide. Tous les treuils sont démontables pour diminuer le poids de transport.                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Chevalet</b>                              | Systèmes de relevage hydraulique de série. Le chevalet, le treuil de relevage et les jeux de poulies pour le treuil de relevage peuvent être démontés en un seul bloc pour minimiser le poids au transport. Démontage des treuils 1 et 2 possible sans dépose préalable du chevalet.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Mécanisme d'orientation</b>               | Entraînée par des moteurs hydrauliques munis de 2 réducteurs planétaires, sous bain d'huile, en carter étanche. Freins d'arrêt à commande par ressort, à desserrage hydraulique et freinage hydraulique inusable. Vitesse d'orientation variable en continu entre 0 et 1 tr/min.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Commande</b>                              | IC-1 Commande à électrovanne proportionnelle intégrée dans le système de commande par programme enregistré avec système de diagnostic. 2 écrans couleurs, contrôleur d'état de charge actionné par écran tactile. Les vitesses de travail sont réglées sans paliers par la position du levier. Commande automatique pour une exploitation optimale de la puissance moteur ; systèmes de commande d'urgence.<br>Fonctions additionnelles :<br><ul style="list-style-type: none"> <li>• Position variable en continu du contrepoids superlift avec système superlift réglable en option entre 11-19 m</li> <li>• Angle variable en continu de la flèche principale en configuration SWSL 55-87° (65-87° en configuration SW)</li> <li>• Limitation de la zone de travail</li> <li>• Diagnostic et dépannage</li> <li>• Mode manipulateur réglable en fonction de l'utilisateur</li> </ul> Position ergonomique des manipulateurs de commande dans la cabine du grutier. Commande à distance pour le montage. Commande d'urgence à distance sans fil. |
| <b>Cabine</b>                                | Cabine confortable avec large pare-brise et climatisation. Vitrage de sécurité panoramique, lucarne, chauffage à air autonome, tableau de bord avec l'ensemble des organes de commande et instruments de contrôle. Siège opérateur à réglage continu, siège de secours, nombreux rangements, prise 12 V. La cabine peut être inclinée vers l'arrière, pour une meilleure visibilité sur la flèche. Un système de caméras vidéo permet de surveiller les tambours. Ouverture possible du pare-brise avant. Tableau de bord réglable pour une ergonomie et une visibilité optimales. Essuie-glace avant avec position d'arrêt hors de la vitre pour une meilleure visibilité. La cabine pivote hydrauliquement pour se ranger devant la partie tournante et minimiser la largeur lors des transports.                                                                                                                                                                                                                                                |



# Descriptif technique

|                                |                                                                                                                                                                                                                                                                                     |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Installation électrique</b> | Système 24 V DC (2 batteries 12 V / 200 Ah).                                                                                                                                                                                                                                        |
| <b>Dispositif de sécurité</b>  | Contrôleur d'état de charge intégré dans la commande IC-1 (état de charge, rayon, angles, surveillance moteur et hydraulique), interrupteur de fin de course des treuils et pour les mouvements de la flèche, vérin anti-retour de flèche hydraulique, feu de position, anémomètre. |

## Combinaisons de flèche

Voir page 18-25.

## Equipements optionnels

|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Moteur ECE R96</b>                                                       | <b>En option pour les marchés non réglementés :</b> Moteur diesel Mercedes-Benz, type OM471LA, 6 cylindres, 390 kW (523 HP) à 1700 tr/min. Couple de 2460 Nm à 1300 tr/min. Le moteur satisfait aux normes ECE R96 en matière d'émissions. Système d'échappement en acier inoxydable avec pare-étincelles certifié.<br>Carburant : 1217 l.                                                                                                                                                                                                                                                                                                 |
| <b>Connexion rapide hydraulique</b>                                         | Permet une séparation rapide de la tourelle et du châssis (pour un poids de transport réduit).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Patins de chenilles</b>                                                  | 2,0 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Quatre roues motrices</b>                                                | 2 entraînements pour chaque train de chenilles : force de traction de 2600 kN, à vitesse réduite.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Contrepoids alternatifs en fonte</b>                                     | Hauteur hors tout réduite (voir page 14).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Répartition des contre-poids alternatifs 10 t + 7,5 t ou 10 t + 15 t</b> | Offre un transport optimisé pour certains marchés.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Vérin hydraulique sur chevalet</b>                                       | Pour montage autonome du châssis à chenilles.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Vérin hydraulique avec ou sans groupe hydraulique</b>                    | Pour boulonnage de la flèche.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Système de stabilisateurs latéraux</b>                                   | Complémentaires pour le montage de longs systèmes de flèche.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Kit Boom Booster</b>                                                     | Intègre deux sections d'adaptateur de 12 m et jusqu'à 7 intercalaires de 12 m.<br>Longueurs disponibles : 24 m, 48 m, 60 m, 84 m, 108 m.<br>Extension du mât Superlift de 36 m à 39,5 m ou 42 m.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Option Flex Frame</b>                                                    | Positionnement illimité du contrepoids de la Superlift entre 13 et 21 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Plateau Split Tray</b>                                                   | Plateau avec plateforme amovible située sous la pile de contrepoids centrale de la Superlift (poids maximal des contrepoids : 125 t).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Standard SL</b>                                                          | Mât 36 m superlift incl. treuil W2.<br>Tirants SL, vérin anti-retour du mât, panier SL.<br>Contrepoids superlift 0 t à 9 m de rayon ou 0-325 t sur panier de contrepoids avec rayons fixes de 11 m, 13 m, 15 m, 17 m et 19 m.                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>SL variable</b>                                                          | Mât superlift 36 m variable (voir SL standard).<br>Vérins hydrauliques verticaux additionnels et treuil de stabilisation sur la partie tournante (prévient le balancement du contrepoids, surtout pendant les déplacements et l'orientation). Compensation de la hauteur via les vérins, levage par-dessus les obstacles possibles jusqu'à un certain point.<br>Contrepoids superlift 0 t à 9 m de rayon ou 0-325 t sur panier de contrepoids avec rayons variable en continu entre 11 m et 19 m.                                                                                                                                          |
| <b>Chariot de contrepoids SL</b>                                            | Mât superlift (voir standard SL). Structure télescopique et chariot de contrepoids pour un poids total de 325 t avec 4 roues / 2 essieux (moteurs et directeurs – grande manœuvrabilité en déplacement circulaire, traction et modes parallèle). Contrepoids superlift 40-325 t sur chariot avec rayon de mât fixe de 16 m environ ; réglable en continu à 13-17 m ou 17-19 m resp. avec structure télescopique. Le chariot de contrepoids permet le déplacement ou l'orientation même avec le contrepoids superlift maintenu au sol (par ex. grue avec charges au crochet pour les valeurs entre parenthèses dans le tableau de charges). |
| <b>Treuil H3</b>                                                            | Treuil additionnel pour flèche principale (pour configuration LF ou potence), traction du câble équivalente à H1, longueur 650 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Potence</b>                                                              | Capacité max. 54 t. Montée en tête de flèche et en pointe de flèche / fléchette.<br>Utilisation avec câble de treuil 3 (voir SL variable).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Potence pour LF standard</b>                                             | Capacité de levage max. 18 t. Actionnement par câble 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Tête de tringlerie LF spéciale</b>                                       | Sans jeu de poulies pour des capacités de levage supérieures en configuration LF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Segment intermédiaire de 3 m</b>                                         | Pour longueurs intermédiaires de 3 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

# Descrizione tecnica

## Carro cingolato

Carro in 3 sezioni, comprendente la carrozzeria e due cingoli. Le giunzioni idrauliche a spina tra cingoli e carro facilitano le operazioni di montaggio e smontaggio e consentono di ridurre al minimo la larghezza e il peso in ordine di marcia. Larghezza cingolo: 8,40 m.

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Carrozzeria</b>              | Struttura saldata e scatolare, resistente a torsioni e flessioni, realizzata in acciaio strutturale ad alta resistenza a grana fine.                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cingoli</b>                  | Struttura saldata resistente a flessioni, realizzata in acciaio strutturale pregiato a grana fine. La dotazione di serie comprende il sistema di lubrificazione centralizzato. 16 rulli portacingolo su ciascun telaio con superficie di rotolamento bonificata. Posizione rialzata per le ruote motrici e tendicingolo. Le due ruote assicurano la capacità portante necessaria per l'erezione del braccio e consentono di regolare il tensionamento dei cingoli. Pattini dei cingoli: larghezza 1,50 m. |
| <b>Azionamento cingoli</b>      | I cingoli sono azionati da un motore idraulico ciascuno, provvisto di riduttori planetari in bagno d'olio, muniti di carter a tenuta e freno di arresto a molla, ad apertura idraulica; il design dei riduttori è estremamente compatto e si adatta perfettamente alla larghezza dei cingoli. Ogni lato è controllato a regolazione continua, con possibilità di movimento indipendente e di rotazione in direzioni opposte. Sforzo di trazione: 1.400 kN per lato.                                       |
| <b>Martinetti per montaggio</b> | Quattro cilindri idraulici di sollevamento sulla carrozzeria (ripiegabili entro una larghezza di 3 m) per facilitare il montaggio dei cingoli.                                                                                                                                                                                                                                                                                                                                                            |

## Torretta

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrappeso</b>                          | 205 t (max. 225 t) in combinazione con una zavorra centrale da 50 t. Tipo in blocchi d'acciaio pieno. Peso dei blocchi di contrappeso: 10 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Peso totale</b>                          | Circa. 390 t, incl. contrappeso 165 t, braccio 24 m SH_1 e bozzello.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Velocità di marcia su cingoli</b>        | Max. 1,1 km/h.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Verricello di avvolgimento</b>           | Montato su torretta.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Struttura</b>                            | Struttura saldata resistente a torsioni, realizzata in acciaio strutturale ad alta resistenza a grana fine.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Ralla</b>                                | Ralla con cuscinetto a tre file di rulli, con corona esterna per facilità di manutenzione. Impianto di lubrificazione centralizzata.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Azionamento EU Stage V / EPA Tier 4f</b> | Motore diesel Mercedes-Benz, tipo OM471LA, 6 cilindri, 390 kW (523 HP) a 1600 giri/min. Coppia 2600 Nm a 1300 giri/min. Il motore è conforme alle normative sulle emissioni EU Stage V / EPA Tier 4f. Riduttore di distribuzione per sei pompe a pistoncini assiali a cilindrata variabile e pompe a ingranaggi aggiuntive. Impianto di scarico in acciaio inox con filtro antiparticolato, catalizzatore di tipo SCR e parascintille munito di relativa certificazione. Rivestimento insonorizzante. Carburante: 1217 l, AdBlue: 85 l.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Tamburi avvolgimento fune</b>            | La dotazione standard della torretta comprende tre tamburi: argano 1, argano 2 e argano del braccio. I tamburi sono azionati da motori idraulici tramite riduttori planetari in bagno d'olio, dotati di carter a tenuta. Tutti i tamburi sono equipaggiati di freni multidisco a molla, ad apertura idraulica e sistema di frenatura idraulica antiusura per la discesa del carico. Le cime delle funi H 1, 2, 3 e W 1, 2 sono dotate di dispositivo a sgancio rapido. Tutti gli argani sono rimovibili, per minimizzare il peso durante il trasporto.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Cuspide</b>                              | Sistemi di sollevamento idraulico per la cuspide di serie. La cuspide, l'argano del braccio e la serie di pulegge possono essere smontate e trasportate come una singola unità, per minimizzare il peso durante il trasporto. Possibilità di smontaggio degli argani 1 e 2 senza richiedere la rimozione della cuspide.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Ralla</b>                                | Azionata da motori idraulici tramite 2 riduttori planetari in bagno d'olio, dotati di carter a tenuta. Freni di arresto a molla, frenatura idraulica antiusura, con apertura idraulica. Velocità ralla a regolazione continua 0-1 giri/min.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sistema di comando</b>                   | IC-1: Valvola di regolazione proporzionale elettronica integrata nel sistema di controllo software, comprendente sistema di diagnostica. 2 monitor a colori, limitatore di carico con touch-screen. Velocità di lavoro a regolazione continua sulla base della posizione della leva. Controllo automatico dell'alimentazione, per un utilizzo ottimale della potenza erogata dal motore; sistemi di controllo di emergenza.<br>Funzioni aggiuntive: <ul style="list-style-type: none"><li>• Posizionamento a regolazione continua del contrappeso Superlift con sistema Superlift opzionale regolabile 11-19 m</li><li>• Posizionamento a regolazione continua dell'inclinazione del braccio base in configurazione SWSL 55-87° (65-87° in configurazione SW)</li><li>• Limitazione dell'area di lavoro</li><li>• Diagnostica e individuazione dei guasti</li><li>• Modalità joystick definita dall'utente</li></ul> La gru è controllata mediante leva a joystick ubicate in posizione ergonomica nella cabina della gru. Comando wireless per attrezzamento. Comando wireless per emergenza. |
| <b>Cabina</b>                               | Comoda cabina con ampio parabrezza e climatizzazione. Vetratura di sicurezza panoramica, tettuccio apribile, riscaldatore ad aria calda indipendente, strumentazione e comandi gru completi. Sedile regolabile a piacere dall'operatore, sedile di emergenza, numerosi vani portaoggetti, presa di alimentazione 12 V. La cabina può essere inclinata per incrementare la visibilità dell'operatore sul punto di lavoro del braccio. I tamburi avvolgimento fune sono dotati di videocamera di monitoraggio. Possibilità di aprire la finestra frontale. Il cruscotto può essere regolato per massimizzare l'ergonomia e la visibilità. Tergicristallo anteriore con posizione di riposo esterna all'area del parabrezza, per massimizzare la visibilità. Per il trasporto, la cabina ruota a comando idraulico sul lato anteriore della torretta, in modo da ridurre la larghezza.                                                                                                                                                                                                            |

# Descrizione tecnica

|                                 |                                                                                                                                                                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Componenti elettrici</b>     | Impianto 24 VCC (2 batterie 12 V / 200 Ah).                                                                                                                                                                                                                               |
| <b>Dispositivi di sicurezza</b> | Limitatore di carico integrato nel dispositivo IC-1 (supervisione momento di carico, raggio, inclinazioni, motore e monitoraggio impianto idraulico), finecorsa argano, finecorsa per movimenti braccio base, antiretro idraulico braccio, luci di posizione, anemometro. |

## Combinazioni braccio

Vedere pagina 18-25.

## Equipaggiamento opzionale

|                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motore ECE R96</b>                                                               | <b>Opzionale per i mercati non regolamentati:</b> motore diesel Mercedes-Benz, tipo OM471LA, 6 cilindri, 390 kW (523 HP) a 1700 giri/min. Coppia 2460 Nm a 1300 giri/min. Il motore è conforme alle normative sulle emissioni ECE R96 (simile a EU Stage III / EPA Tier 3). Impianto di scarico in acciaio inox con parascintille munito di relativa certificazione.<br>Carburante: 1217 l.                                                                                                                                                                                                                                                   |
| <b>Attacchi rapidi idraulici</b>                                                    | Consente la rapida separazione della torretta dal carro (per ridurre il peso da trasportare).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Pattini dei cingoli</b>                                                          | 2,0 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Quadro-drive</b>                                                                 | 2 trasmissioni per ciascun cingolo: forza di trazione 2600 KN – a velocità ridotta.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>I contrappesi alternativi sono realizzati in ghisa</b>                           | Altezza totale ridotta (vedere pagina 14).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Composizione elementi del contrappeso alternativo 10 t + 7,5 t o 10 t + 15 t</b> | Per un trasporto ottimizzato in mercati specifici.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cilindro idraulico su cuspidi</b>                                                | Per il montaggio automatico del carro cingolato.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cilindro idraulico con o senza centralina idraulica</b>                          | Per il fissaggio a mezzo spine del braccio.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gruppo stabilizzatori laterali aggiuntivo</b>                                    | Per l'utilizzo di bracci di lunghezza elevata.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Kit Boom Booster</b>                                                             | Costituito da 2 sezioni di adattamento da 12 m e fino a 7 inserti da 12 m.<br>Lunghezze disponibili 24 m, 48 m, 60 m, 84 m, 108 m.<br>Estensione del montante Superlift da 36 m a 39,5 m o 42 m.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Flex frame</b>                                                                   | Posizionamento infinito del contrappeso Superlift da 13-21 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Split tray</b>                                                                   | Struttura del supporto Superlift con piattaforma rimovibile sotto lo stack centrale dei contrappesi (stack centrale max. 125 t).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Standard SL</b>                                                                  | Montante Superlift 36 m compreso argano W2.<br>SL: barre sospese, cilindri antiretro montante, telaio SL.<br>Contrappeso Superlift 0 t con uno sbraccio di 9 m o 0-325 t sul telaio contrappesi con uno sbraccio fisso di 11 m, 13 m, 15 m, 17 m e 19 m.                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>SL variabile</b>                                                                 | Montante Superlift 36 m variabile (vedere SL standard).<br>Cilindri idraulici verticali aggiuntivi e argano di stabilizzazione sulla torretta (impediscono l'oscillazione del contrappeso, in particolare durante gli spostamenti su strada e le manovre di rotazione). Compensazione altezza mediante cilindri, sollevamento con superamento di ostacoli possibile in una certa misura.<br>Contrappeso Superlift 0 t con uno sbraccio di 9 m o 0-325 t sul telaio contrappesi, con sbraccio variabile da 11 m a 19 m.                                                                                                                        |
| <b>Supporto contrappesi SL</b>                                                      | Montante Superlift (vedere SL standard). Telaio telescopico e supporto contrappesi per un peso totale di 325 t, con 4 ruote/2 assali (traente e sterzante – completa manovrabilità per rotazione, traino e modalità di spostamento parallele). Contrappeso Superlift 40-325 t su supporto contrappesi con sbraccio montante fisso di circa 16 m; regolazione continua da 13 a 17 m o da 17 a 19 m o con telaio telescopico. Il supporto contrappesi consente il trasporto su strada o la rotazione, anche con contrappeso Superlift non sollevato da terra (si applicano i carichi indicati tra parentesi nel diagramma di carico della gru). |
| <b>Argano H3</b>                                                                    | Argano aggiuntivo per braccio base (per l'uso di LF o del runner), tiro come H1, lunghezza 650 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Runner</b>                                                                       | Capacità max 54 t. Montato su testa braccio ed estremità falcone/braccio.<br>Funzionamento mediante fune argano 3 (vedere SL variabile).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Runner per LF standard</b>                                                       | Capacità max. di sollevamento 18 t. Azionato mediante la fune 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Testa tirante LF speciale</b>                                                    | Senza kit pulegge per una maggiore capacità di sollevamento quando si utilizza LF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Sezione intermedia di 3 m</b>                                                    | Per lunghezze intermedie di 3 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

# Descripción técnica

## Chasis de orugas

Chasis de 3 secciones, formado por un cuerpo central y dos orugas. La conexión con pernos hidráulicos entre las orugas y el cuerpo central aseguran un fácil montaje y desmontaje, reduciendo al mínimo la anchura y el peso para su transporte. Ancho de oruga: 8,40 m.

|                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Cuerpo central</b>              | Estructura soldada resistente a la flexión y a la torsión de construcción tipo cajón, fabricada de acero estructural de grano fino y alta resistencia.                                                                                                                                                                                                                                                                                                                          |
| <b>Orugas</b>                      | Estructura soldada resistente a la flexión, fabricada con acero de construcción de grano fino y alta resistencia. Lubricación centralizada automática incluida de serie. 16 rodillos en cada bastidor lateral con superficies de rodadura endurecidas. Posición elevada para los piñones de transmisión y las ruedas intermedias, los cuales proporcionan capacidad de soporte de carga para elevación; tensión de oruga regulable. Eslabones de las orugas: 1,50 m de anchura. |
| <b>Unidad motriz de las orugas</b> | Las orugas están propulsadas por un motor hidráulico, con engranajes planetarios en cárter cerrado y baño de aceite, equipadas con frenos de parada accionados por muelle y soltados hidráulicamente; los engranajes tienen un diseño extremadamente compacto para caber dentro de la anchura de las orugas. Cada oruga es controlada en progresión continua, tanto independientemente como en direcciones opuestas. Esfuerzo de tracción: 1400 kN por cada lado.               |
| <b>Gatos de montaje</b>            | 4 gatos hidráulicos en el cuerpo central (replegado en una anchura de 3 m) para un montaje sencillo de las orugas.                                                                                                                                                                                                                                                                                                                                                              |

## Superestructura

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrapesos</b>                              | Contrapeso de 205 t (máx. 225 t) en combinación de superestructura con lastre central de 50 t. Tipo cajón de acero relleno. Peso de los bloques de contrapeso: 10 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Peso total</b>                               | Aprox. 390 t, incl. contrapeso de 165 t, pluma de 24 m SH_1 y bloque de gancho.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Velocidad de desplazamiento sobre orugas</b> | Máx. 1,1 km/h.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Cabestrante pasador</b>                      | Montado en la superestructura.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Bastidor</b>                                 | Estructura soldada resistente a la torsión, fabricada de acero de estructura de grano fino y alta resistencia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Anillo de giro</b>                           | Anillo de giro con rodamientos de tres hileras de rodillos, con corona dentada externa para una fácil reparación y mantenimiento. Sistema central de lubricación.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Tracción EU Stage V / EPA Tier 4f</b>        | Motor diésel Mercedes-Benz, tipo OM471LA, 6 cilindros, 390 kW (523 HP) a 1600 rpm. Par 2600 Nm a 1300 rpm. El motor cumple con la normativa de emisiones UE fase V / EPA Tier 4f. Caja de engranajes de distribución de bombas con seis bombas de pistón axial de desplazamiento variable y bombas de engranajes adicionales. Sistema de escape de acero inoxidable con filtro de partículas, catalizador SCR y parachispas certificado. Revestimiento con aislamiento acústico. Combustible: 1217 l, AdBlue: 85 l.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Tambores de cable</b>                        | El equipamiento de serie de la superestructura incluye tres tambores de cable: cabestrante 1, cabestrante 2 y cabestrante de pluma. Los tambores son accionados por motores hidráulicos a través de engranajes planetarios en cárter cerrado y baño de aceite. Todos los tambores de cable tienen frenos multidisco accionados por muelle y soltados hidráulicamente, y frenado sin desgaste para reducir el peso. Los extremos de los cables H 1, 2, 3 y W 1, 2 están equipados con accesorios de conexión rápida. Todos los cabestrantes pueden ser desmontados para minimizar el peso de transporte.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Caballote</b>                                | Sistema hidráulico de elevación para caballote de serie. El caballote, el cabestrante de pluma y los juegos de poleas para cabestrante de pluma pueden desmontarse como una sola unidad de transporte para minimizar el peso de transporte. Es posible desmontar los cabestrantes 1 y 2 sin retirar primero el caballote.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Mecanismo de giro</b>                        | Accionado por dos motores hidráulicos a través de engranajes planetarios en cárter cerrado y baño de aceite. Frenos accionados por muelle y soltados hidráulicamente, así como frenado hidráulico sin desgaste. Velocidad de giro en progresión continua de 0-1 rpm.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Sistema de control</b>                       | IC-1: Control piloto electrónico de válvulas proporcionales integrado en un sistema de control por programa almacenado, incl. sistema de diagnóstico. 2 monitores con pantallas a color, indicador de momento de carga operado mediante una pantalla táctil. Velocidades de trabajo controladas en progresión continua por la posición de la palanca. Control automático de potencia para un aprovechamiento óptimo de la potencia del motor; sistemas de control de emergencia.<br>Funciones adicionales:<br><ul style="list-style-type: none"> <li>• Posición del contrapeso Superlift variable en progresión continua con el sistema opcional Superlift ajustable de 11 a 19 m</li> <li>• Posición del ángulo de la pluma principal variable en progresión continua en configuración SWSL 55-87° (65-87° en configuración SW)</li> <li>• Limitación del área de trabajo</li> <li>• Diagnóstico y resolución de problemas</li> <li>• Modo de joystick definido por el usuario</li> </ul> La grúa se controla mediante palancas de joystick ergonómicamente colocadas en la cabina. Control remoto inalámbrico para montaje. Control remoto inalámbrico de emergencia. |
| <b>Cabina</b>                                   | Confortable cabina con amplio parabrisas y aire acondicionado. Lunas de seguridad, luna en el techo, calefacción de aire caliente autónoma, instrumentos y controles completos de la grúa. Asiento del operador totalmente ajustable, asiento de emergencia, múltiples áreas de almacenamiento, toma eléctrica de 12 V. La cabina puede ser inclinada hacia atrás para mejorar la visibilidad de manejo de la pluma. Ha sido instalado un sistema de cámara para supervisar los tambores de cable. Es posible abrir la luna delantera. El cuadro de mandos puede ajustarse para una ergonomía y una visibilidad óptimas. Limpiaparabrisas delantero con posición de reposo fuera del área de la luna para una óptima visibilidad. Para su transporte, la cabina gira hidráulicamente delante de la superestructura para reducir la anchura al mínimo.                                                                                                                                                                                                                                                                                                                   |

# Descripción técnica

|                                  |                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipamiento eléctrico</b>    | Sistema de 24 V (2 baterías de 12 V / 200 Ah).                                                                                                                                                                                                                                                                                  |
| <b>Dispositivos de seguridad</b> | Indicador de momento de carga integrado en el control IC-1 (momento de carga, radio, ángulos, monitorización del motor y el sistema hidráulico), interruptor limitador de elevación, interruptores limitadores para los movimientos de la pluma, estabilizadores hidráulicos dorsales de la pluma, luz de posición, anemómetro. |

## Combinaciones de pluma

Véase página 18-25.

## Equipamiento opcional

|                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motor ECE R96</b>                                                        | <b>Opcional para los mercados no regulados:</b> Motor diésel Mercedes-Benz, tipo OM471LA, 6 cilindros, 390 kW (523 HP) a 1700 rpm. Par 2460 Nm a 1300 rpm. El motor cumple con la normativa de emisiones ECE R96 (similar a UE fase III / EPA Tier 3). Sistema de escape de acero inoxidable con parachispas certificado.<br>Combustible: 1217 l.                                                                                                                                                                                                                                                                             |
| <b>Conexión hidráulica rápida</b>                                           | Permite separar rápidamente la superestructura del vehículo (reduciendo así el peso de transporte).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Eslabones de las orugas</b>                                              | 2,0 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Transmisión Quadro</b>                                                   | 2 transmisiones para cada chasis de orugas: fuerza de tracción 2600 kN – a una menor velocidad de desplazamiento.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Contrapesos alternativos hechos de hierro colado</b>                     | Altura total reducida (véase página 14).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Segmentación de contrapeso alternativo de 10 t + 7,5 t o 10 t + 15 t</b> | Para el transporte optimizado en ciertos mercados.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cilindro hidráulico en el caballete</b>                                  | Para automontaje del chasis de orugas.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Cilindro hidráulico con o sin unidad hidráulica</b>                      | Para fijación de pernos de pluma.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Sistema de estabilizadores laterales</b>                                 | Para erigir sistemas de pluma larga.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Kit Boom Booster</b>                                                     | Se compone de 2 secciones de adaptación de 12 m y hasta 7 insertos de 12 m.<br>Longitudes disponibles 24 m, 48 m, 60 m, 84 m, 108 m.<br>Extensión de mástil Superlift de 36 m a 39,5 m o 42 m.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Flex frame</b>                                                           | Posicionamiento infinito del contrapeso Superlift de 13 a 21 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Bandeja Split Tray</b>                                                   | Bastidor de bandeja Superlift con plataforma extraíble debajo de la pila central de contrapesos (pila central máx. 125 t).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>SL estándar</b>                                                          | 36 m mástil Superlift incl. cabestrante W2.<br>Barras colgantes SL, cilindros de apoyo de mástil, bandeja SL.<br>Contrapeso Superlift de 0 t a un radio de 9 m o 0-325 t en bandeja de contrapesos a radios fijos de 11 m, 13 m, 15 m, 17 m y 19 m.                                                                                                                                                                                                                                                                                                                                                                           |
| <b>SL variable</b>                                                          | Mástil Superlift variable de 36 m (véase SL estándar).<br>Cilindros hidráulicos verticales adicionales y cabestrante de estabilización en la superestructura (evita que los contrapesos oscilen, especialmente en desplazamientos y giros). Compensación de altura usando los cilindros, elevación a través de obstáculos posible hasta cierta medida. Contrapeso Superlift de 0 t a un radio de 9 m o 0-325 t en bandeja de contrapesos, progresión continua de 11 m a 19 m.                                                                                                                                                 |
| <b>Carro de contrapesos SL</b>                                              | Mástil Superlift (véase SL estándar). Bastidor telescópico y carro de contrapesos para un peso total de 325 t, con cuatro ruedas/2 ejes (con tracción y dirección: maniobrabilidad completa para modos paralelo, de giro y de remolque). Contrapeso Superlift de 40-325 t en carro de contrapesos con radio de mástil fijo de aprox. 16 m; ajustable en progresión continua de 13-17 m o 17-19 m, o con bastidor telescópico. El carro de contrapeso permite la marcha y el giro incluso cuando el contrapeso Superlift no se eleva del suelo (p.ej. grúa con cargas según indicadas entre paréntesis en la tabla de cargas). |
| <b>Cabestrante H3</b>                                                       | Cabestrante adicional para pluma principal (para operar LF o runner), tracción de cable igual que H1, longitud 650 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Runner</b>                                                               | Capacidad máx. de elevación: 54 t. Montado en la cabeza de la pluma y en la parte superior de la pluma / plumín. Operado por el cable de cabestrante 3 (véase SL Variable).                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Runner para LF estándar</b>                                              | Capacidad de elevación máx. 18 t. Accionado por cable 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Cabezal de conexión LF especial</b>                                      | Sin juego de poleas para mayores capacidades de elevación cuando se empela LF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sección intermedia de 3 m</b>                                            | Para longitudes intermedias de 3 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |



# Descrição técnica

## Veículo sobre esteiras

Veículo transportador de 3 seções com torre de rotação e duas esteiras. Conexões por pinos hidráulicos entre as esteiras e o chassi facilitam a instalação e a retirada, diminuindo a largura e o peso para o transporte. Largura das esteiras: 8,40 m.

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Torre de rotação</b>    | Estrutura soldada de construção celular resistente a flexão e torção fabricada com aço estrutural de granulação fina e alta resistência.                                                                                                                                                                                                                                                                                                         |
| <b>Esteiras</b>            | Estrutura soldada resistente à flexão fabricada com aço estrutural de granulação fina e alta resistência. Lubrificação centralizada automática como item de série. 16 roletes em cada chassi com superfícies de rolamento temperadas. Posição elevada das engrenagens motoras e das rodas livres, todas com retesamento das esteiras ajustável para a capacidade de carga no içamento. Sapatas das esteiras: 1,50 m de largura.                  |
| <b>Tração da esteira</b>   | As esteiras são comandadas por um motor hidráulico cada uma, através de caixas fechadas com engrenagens planetárias em banho de óleo, equipadas com freios de retenção com liberação hidráulica por ação de mola; as caixas têm construção bastante compacta, próprias para a largura das esteiras. Cada esteira tem controle de variação infinita, tanto em modo independente quanto em sentidos inversos. Esforço de tração: 1400 kN por lado. |
| <b>Macacos de montagem</b> | Quatro cilindros hidráulicos de levantamento na torre de giro (fechando com menos de 3 metros de largura) para facilitar a montagem das esteiras.                                                                                                                                                                                                                                                                                                |

## Superestrutura

|                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Contrapeso</b>                            | Contrapeso de 205 t (máx. 225 t) na superestrutura combinado com 50 t de lastro central. Tipo caixa de aço cheia. Peso dos blocos de contrapeso: 10 t.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Peso total</b>                            | Aprox. 390 t, incl. contrapeso de 165 t, lança de 24 m SH_1 e moitão.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Velocidade de percurso sobre esteiras</b> | Máx. 1,1 km/h.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Guincho de passagem</b>                   | Montado na superestrutura.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Chassi</b>                                | Estrutura soldada resistente à torsão fabricada com aço estrutural de granulação fina e alta resistência.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Anel de giro</b>                          | Anel de giro com rolamento de três carreiras de rolos e coroa externa para facilidade de serviço e manutenção. Sistema de lubrificação central.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Acionamento EU Stage V / EPA Tier 4f</b>  | Motor a diesel Mercedes-Benz, tipo OM471LA, 6 cilindros, 390 kW (523 HP) a 1600 rpm. Torque de 2600 Nm a 1300 rpm. O motor cumpre as normas de emissões Stage V da UE/Tier 4f da EPA. Caixa de engrenagens de distribuição para as bombas com seis bombas de pistão axial com deslocamento variável e bombas de engrenagens adicionais. Escapamento em aço inoxidável com filtro de partículas, catalisador SCR e certificado de extintor de faíscas. Revestimento com isolamento sonoro. Combustível: 1217 l, AdBlue: 85 l.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Tambores dos cabos de aço</b>             | O equipamento padrão da superestrutura inclui três tambores para cabos de aço – guincho 1, guincho 2 e guincho da lança. Os tambores são comandados por motores hidráulicos através de caixas fechadas com engrenagens planetárias em banho de óleo. Todos os tambores contam com freios multidisco de liberação hidráulica por ação de mola e frenagem hidráulica sem desgaste para a descida das cargas. Pontas dos cabos H 1, 2, 3 e W 1, 2 equipadas com conexões de engate rápido. Todos os guinchos são removíveis para reduzir o peso durante o transporte.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Suporte angular</b>                       | Sistemas hidráulicos de elevação do suporte angular como item de série. O suporte angular, os guinchos da lança e seus conjuntos de roldanas podem ser desmontados como unidade inteira a fim de reduzir o peso para transporte. A desmontagem dos guinchos 1 e 2 é possível sem primeiro remover o suporte angular.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Unidade de giro</b>                       | Comandadas por motores hidráulicos através de 2 caixas fechadas com engrenagens planetárias em banho de óleo. Freios de retenção por ação de mola com liberação hidráulica e frenagem hidráulica sem desgaste. Velocidade de giro de 0 a 1 rpm infinitamente variável.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sistema de controle</b>                   | IC-1: Controle eletrônico proporcional do piloto da válvula integrado ao sistema de controle por programa armazenado incluindo sistema de diagnóstico. Dois monitores com tela colorida, indicador de momento de carga operado por tela de toque. Velocidades de trabalho infinitamente variáveis, controladas pela posição da alavanca. Controle automático de potência para máxima utilização do rendimento do motor; sistemas de controle de emergência.<br>Outras funções: <ul style="list-style-type: none"><li>• Posição infinitamente variável do contrapeso do Superlift com sistema opcional de ajuste de 11 a 19 m</li><li>• Posição infinitamente variável do ângulo da lança principal em configuração SWSL entre 55 e 87° (65 a 87° em configuração SW)</li><li>• Limitação da área de trabalho</li><li>• Diagnóstico e solução de problemas</li><li>• Modo das alavancas de comando definido pelo usuário</li></ul> O guindaste é controlado por alavancas de comando ergonomicamente posicionadas na cabine. Controle remoto sem fio do içamento. Controle remoto sem fio de emergência. |
| <b>Cabine</b>                                | Cabine confortável com amplo parabrisa e ar condicionado. Vidros de segurança em toda a volta, teto solar, aquecedor de ar autônomo, instrumentação completa e controles do guindaste. Assento do operador livremente regulável, assento de emergência, vários porta-objetos, plugue elétrico de 12 V. A cabine pode ser reclinada para melhorar a visão da ponta da lança pelo operador. Há um sistema de câmera instalado para monitorar os tambores dos cabos de aço. A janela dianteira pode ser aberta. Painel regulável para melhor ergonomia e visualização. Limpador do parabrisa dianteiro com posição de descanso fora do campo visível. Para transporte, a cabine rebate hidraulicamente para a frente da superestrutura a fim de diminuir a largura.                                                                                                                                                                                                                                                                                                                                        |

# Descrição técnica

|                                  |                                                                                                                                                                                                                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Equipamentos elétricos</b>    | Sistema de 24 V (2 baterias de 12 V / 200 Ah).                                                                                                                                                                                                                                                 |
| <b>Equipamentos de segurança</b> | Indicador do momento de carga integrado em controle IC-1 (momento de carga, raio, ângulos, monitoração do funcionamento do motor e do sistema hidráulico), chave limitadora do guincho, chaves limitadoras dos movimentos da lança, batentes hidráulicos da lança, luz de posição, anemômetro. |

## Combinações de lanças

Ver página 18-25.

## Equipamentos opcionais

|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Motor ECE R96</b>                                                              | <b>Opcional para mercados não regulados:</b> motor a diesel Mercedes-Benz, tipo OM471LA, 6 cilindros, 390 kW (523 HP) a 1700 rpm. Torque de 2460 Nm a 1300 rpm. O motor cumpre a norma de emissão ECE R96 (semelhante a Stage III da UE/Tier 3 da EPA). Escapamento em aço inoxidável com certificado de extintor de faíscas.<br>Combustível: 1217 l.                                                                                                                                                                                                                                                          |
| <b>Conexão hidráulica de engate rápido</b>                                        | Permite que a superestrutura seja separada da transportadora, o que reduz o peso de transporte.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Sapatas das esteiras</b>                                                       | 2,0 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Acionamento quádruplo</b>                                                      | 2 acionadores para cada esteira: 2600 kN de força de tração em marcha reduzida.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Contrapesos alternativos feitos de ferro fundido</b>                           | Altura total reduzida (ver página 14).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Segmentação dos contrapesos com alternativa de 10 t + 7,5 t ou 10 t + 15 t</b> | Para transporte otimizado em certos mercados.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pistão hidráulico do suporte angular</b>                                       | Para automontagem do veículo da esteira.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Pistão hidráulico com ou sem unidade hidráulica</b>                            | Para pinagem da lança.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Sistema estabilizador lateral adicional</b>                                    | Para montagem de longos sistemas de lança.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Kit do extensor da lança</b>                                                   | Consiste de 2 seções adaptadoras de 12 m e até 7 suplementos de 12 m.<br>Disponíveis para comprimentos de 24 m, 48 m, 60 m, 84 m, 108 m.<br>Disponível para torre do Superlift de 36 m a 39,5 m ou 42 m.                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Flex Frame</b>                                                                 | Livre posicionamento do contrapeso do Superlift de 13 a 21 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Split Tray</b>                                                                 | Estrutura da plataforma do Superlift com outra plataforma removível embaixo da pilha de contrapesos (pilha central máx. 125 t).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>SL padrão</b>                                                                  | Mastro do Superlift 36 m incl. guincho W2.<br>Barras pendentes do SL, cilindros dos batentes da lança, base do SL.<br>Contrapeso do Superlift 0 t em raio de 9 m ou 0 a 325 t na caixa do contrapeso com raios fixos de 11 m, 13 m, 15 m, 17 m e 19 m.                                                                                                                                                                                                                                                                                                                                                         |
| <b>SL variável</b>                                                                | Mastro do Superlift 36 m variável (ver SL padrão).<br>Complemento de cilindros hidráulicos verticais e guincho de estabilização na superestrutura (impede o jogo do contrapeso especialmente durante o deslocamento e o giro). Compensação da altura usando os cilindros possibilita, até certo ponto, o içamento por cima de obstáculos. Contrapeso do Superlift 0 t no raio de 9 m ou 0-325 t na caixa do contrapeso, infinitamente variável de 11 m a 19 m.                                                                                                                                                 |
| <b>Veículo do contrapeso do SL</b>                                                | Mastro do Superlift (ver SL padrão). Estrutura telescópica e veículo do contrapeso com peso total de 325 t, 4 rodas / 2 eixos (movido e esterçável – total capacidade de manobra em modos de giro, rebocado e paralelo). Contrapeso do Superlift 40 a 325 t sobre veículo com raio do mastro fixo de aprox. 16 m; Infinitamente ajustável entre 13 e 17 m ou 17 e 19 m com estrutura telescópica. O veículo do contrapeso permite o deslocamento e o giro mesmo quando o contrapeso do superlift não sai do chão (p.ex. guindaste com as cargas indicadas pelos valores da tabela de cargas entre parênteses). |
| <b>Guincho H3</b>                                                                 | Guincho adicional para a lança principal (para operação com LF ou runner), tração no cabo igual a H1, comprimento 650 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Ponta de montagem (Runner)</b>                                                 | Capacidade máx. de 54 t. Instalado na cabeça da lança e no topo do conjunto principal/auxiliar. Operação por cabo de guincho 3 (ver SL Variável).                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Runner para LF padrão</b>                                                      | Capacidade máx. içamento 18 t. Operado pelo cabo 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Cabeça de ligação à LF especial</b>                                            | Sem conjunto de roldanas para maior capacidade de içamento durante o uso da LF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Seção intermediária de 3 m</b>                                                 | Para comprimentos intermediários de 3 m.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |



# Техническое описание

## Гусеничное шасси

3-х секционное шасси, состоящее из кузова и двух гусениц. Штифтовые соединения корпуса шасси и гусениц, обслуживаемые гидравликой, обеспечивают легкость сборки и разборки для уменьшения ширины и веса при транспортировке. Ширина колеи: 8,40 м.

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Кузов</b>              | Сварная конструкция коробчатого типа, прочная на изгиб и скручивание, изготовленная из высокопрочной мелкозернистой конструкционной стали.                                                                                                                                                                                                                                                                                                                                        |
| <b>Гусеницы</b>           | Сварная конструкция из устойчивой к изгибу высокопрочной мелкозернистой конструкционной стали. Система автоматической централизованной смазки входит в стандартную комплектацию. 16 роликов на каждой боковой раме с закаленной поверхностью качения. Подъем как ведущих звездочек так и не приводных колес, ведущие звездочки и не приводные колеса обеспечивают грузоподъемность необходимую для сборки, регулируемое натяжение гусениц. Звенья гусеничной цепи: ширина 1,50 м. |
| <b>Привод гусениц</b>     | Каждая гусеница приводится в движение отдельным гидравлическим двигателем через планетарный редуктор в закрытом корпусе с масляной ванной, каждый снабжен подпружиненным тормозом-замедлителем с гидроусилителем. Редукторы имеют очень компактную конструкцию и не выходят за ширину гусениц. Бесступенчатая регулировка движения каждой гусеницы, отдельно и в противоположном направлении. Тяговое усилие: 1400 кН на сторону.                                                 |
| <b>Сборочные домкраты</b> | Четыре цилиндра гидравлических домкратов на шасси крана (складные, не выходят за параметры ширины 3 м) для облегчения сборки гусениц.                                                                                                                                                                                                                                                                                                                                             |

## Надстройка

|                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Противовес</b>                          | Вес противовесов на надстройке 205 т (макс. 225 т) с учетом 50 т центрального балласта. Устанавливаются в клеточную конструкцию из стали. Вес блоков противовесов 10 т.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Общий вес</b>                           | Прибл. 390 т, включая противовес 165 т, стрелу длиной 24 м SH_1 и крюкоблок.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Скорость движения на гусеницах</b>      | Макс. 1,1 км/ч.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Запасовочная лебедка</b>                | Установлена на надстройке.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Рама</b>                                | Сварная конструкция прочная на изгиб и скручивание, изготовленная из высокопрочной мелкозернистой конструкционной стали.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Опорно-поворотный круг</b>              | Опорно-поворотный круг с катковой опорой с тремя рядами подшипников качения для легкого обслуживания. Система централизованной смазки.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Привод<br/>EU Stage V / EPA Tier 4f</b> | Дизельный двигатель Mercedes-Benz, тип OM471LA, 6 цилиндров, 390 кВт (523 л.с.) при 1600 об/мин. Крутящий момент 2600 Нм при 1300 об / мин. Двигатель соответствует требованиям по выбросам стандарта EU Stage V/EPA Tier 4f. Раздаточная коробка привода насосов с шестью аксиально-поршневыми насосами регулируемого объема и дополнительными шестеренчатыми насосами. Выхлопная система из нержавеющей стали с сажевым фильтром, катализатором SCR и сертифицированным искрогасителем. Шумопоглощающий кожух. Топливо: 1217 л, AdBlue: 85 л.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Канатные барабаны</b>                   | Стандартная комплектация оборудования надстройки включает три тросовых барабана – лебедок 1 и 2 и лебедки стрелы. Барабаны приводятся в движение гидравлическими двигателями через планетарную передачу, вращающуюся в масляной ванне в закрытом корпусе. Каждый канатный барабан имеет подпружиненный многодисковый тормоз с гидроусилителем и неизнашивающийся гидравлический тормоз для опускания груза. Концы тросов для лебедок H 1, 2, 3 и W 1, 2 имеют быстроразъемные соединительные концевые фитинги. Все лебедки съемные для уменьшения веса при транспортировке.                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>А-образная рама</b>                     | Гидравлическая система подъема А-образной рамы входит в стандартную комплектацию. А-образная рама, комплект шкивов для лебедки подъема стрелы снимается и перевозится одним блоком для уменьшения веса крана при перевозке. Снятие лебедок 1 и 2 возможно без снятия сначала А-образной рамы.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Поворотный механизм</b>                 | Приводятся в движение гидравлическими двигателями через планетарную передачу, вращающуюся в масляной ванне в закрытом корпусе. Подпружиненный гидравлический тормоз-замедлитель и неизнашивающийся гидравлический тормоз. Скорость поворота надстройки с бесступенчатой регулировкой в диапазоне 0-1 об/мин.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Система управления</b>                  | IS-1: Система электронного пропорционального управления через регулирующие клапаны, встроенная система управления, включающую диагностическую систему. 2 монитора с цветными дисплеями, индикатор момента нагрузки, управляемый через сенсорный экран. Бесступенчатая регулировка рабочих скоростей изменением положения рычага. Автоматическая регулировка мощности для оптимизации выходной мощности двигателя; системы аварийного управления.<br><br>Дополнительные функции:<br>• бесступенчатая регулировка положения противовеса с регулируемой системой суперлифт 11-19м (опция);<br>• бесступенчатая регулировка угла наклона главной стрелы в конфигурации SWSL в пределах 55-87° (65-87° в конфигурации SW);<br>• ограничитель рабочей зоны;<br>• диагностика и выявление неисправностей;<br>• заданный пользователем режим джойстика.<br><br>Кран управляется с помощью рычагов джойстиков, эргономически расположенных в кабинах крана. Радиопульт дистанционного управления сборкой Радиопульт аварийного управления. |
| <b>Кабина</b>                              | Комфортабельная кабина с большим ветровым стеклом и кондиционером. Безопасное остекление всех дверей и окон, потолочный люк, независимый воздушный обогреватель, полный комплект приборов и органов управления краном. Сиденье оператора с бесступенчатой регулировкой, аварийное сиденье, большое количество ящиков для хранения, разъем питания 12 В.<br>Кабина откидывается назад для лучшего обзора конца стрелы крана. Для управления канатными барабанами установлена система камер. Переднее окно открывается. Положение панели приборов регулируется, обеспечивая оптимальную эргономику и обзор. Передний стеклоочиститель ветрового стекла с позицией парковки, не закрывающей зону обзора. При транспортировке кабина вертикально откидывается перед надстройкой для сокращения ширины.                                                                                                                                                                                                                                |

# Техническое описание

|                            |                                                                                                                                                                                                                                                                         |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Электрическое оборудование | 24 В постоянного тока (2 аккумуляторных батареи 12 В, 200 Ач).                                                                                                                                                                                                          |
| Дополнительные устройства  | Индикатор момента нагрузки, встроенный в схему управления ИС-1, (момент нагрузки, радиус, углы, контроль гидравлической системы), ограничитель лебедки, ограничители движения стрелы, гидравлический ограничитель обратного хода стрелы, позиционный фонарь, анемометр. |

## Комбинации стрелы

см. стр. 18-25.

## Дополнительное оборудование

|                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Двигатель ECE R96                                              | <b>Опция для нерегулируемых рынков:</b> дизельный двигатель Mercedes-Benz, тип OM471LA, 6 цилиндров, 390 кВт (523 л. с.) при 1700 об / мин. Крутящий момент 2460 Нм при 1300 об / мин. Двигатель соответствует стандарту выбросов ECE R96 (аналогично стандарту EU Stage III / EPA Tier 3). Выхлопная система из нержавеющей стали с искрогасителем. Топливо: 1217 л.                                                                                                                                                                                                                                                                                                                                                        |
| Гидравлическая система быстросъемных соединений                | Позволяет быстро отделить верхнюю поворотную часть крана от шасси (что снижает транспортный вес).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Звенья гусеничной цепи                                         | 2,0 м.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Квадропривод                                                   | 2 привода для каждого гусеничного шасси: 2600 кН тягового усилия – на пониженной скорости движения.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Альтернативные противовесы из чугуна                           | Уменьшенная общая высота (см. стр. 14).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Блоки альтернативных противовесов 10 т + 7,5 т или 10 т + 15 т | Для оптимизации транспортировки на определенных рынках.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| А-образная рама с гидравлическим цилиндром                     | для самосборки гусеничного шасси.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Гидравлический цилиндр с или без гидравлического блока         | для штифтовой сборки стрелы.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Дополнительная система выдвижных опор                          | для сборки систем с длинными стрелами.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Комплект усилителя стрелы Boom Booster                         | Состоит из 2 переходных секций по 12 м и до 7 удлинительных секций по 12 м. Варианты длины: 24 м, 48 м, 60 м и 84 м, 108 м. Возможность удлинения мачты Superlift с 36 м до 39,5 м или 42 м.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Flex frame                                                     | Бесступенчатое позиционирование противовеса Superlift в диапазоне 13-21 м.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Платформа Split Tray                                           | Платформа для противовесов Superlift с возможностью удаления платформы из под центрального штабеля максимум 125 т).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Стрела Standard SL                                             | 36 м с мачтой Superlift вкл. лебедку W2. Растяжки системы подвески SL, цилиндры заднего упора мачты, платформа тягача для перевозки противовесов SL. Противовес superlift 0 т при радиусе 9 м или 0-325 т на платформе тягача для перевозки противовесов при фиксированных радиусах 11 м, 13 м, 15 м, 17 м и 19 м.                                                                                                                                                                                                                                                                                                                                                                                                           |
| SL с бесступенчатой регулировкой                               | Мачта Superlift 36 м с бесступенчатой регулировкой (см. стрелу Standard SL). Дополнительные гидравлические цилиндры вертикального подъема и стабилизирующая лебедка на надстройке (предотвращает колебания противовесов особенно при транспортировке и вращении). Компенсация высоты при помощи этих цилиндров, подъем через препятствия возможен в ограниченной степени. Противовес superlift 0 т при радиусе 9 м или 0-325 т на платформе тягача для перевозки противовесов при бесступенчатой регулировке радиуса в диапазоне 11-19 м.                                                                                                                                                                                    |
| Тягач с платформой для перевозки противовесов SL               | Мачта Superlift (см. стрелу Standard SL). Телескопической рама и тягач с платформой для перевозки противовесов, рассчитанная на общий вес 325 т, с 4 колесами/2 осями (ведущая и рулящая – обеспечивающие полную маневренность при вращении, буксировке и движении в параллельном режиме). Противовес Superlift 40-325 т на платформе тягача для перевозки противовесов с фиксированным радиусом около 16 м; с бесступенчатой регулировкой 13-17 м или 17-19 м соответственно с телескопической рамой. Тягач с платформой для перевозки противовесов позволяет перемещение или разворот шасси крана, даже не поднимая противовес superlift с земли (т.е. крана с поднимаемым весом, указанным в таблице нагрузок в скобках). |
| Лебедка H3                                                     | дополнительная лебедка для главной стрелы (для работы со стрелой LF или подвижным блоком), тяговое усилие на тросе то же, что и на лебедке H1, длина 650 м.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Подвижной блок                                                 | Макс. грузоподъемность 54 т. Устанавливается на головке стрелы или на верхней секции главной/вспомогательной стрелы. Управление с помощью троса лебедки 3 (см. SL с бесступенчатой регулировкой).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Подвижной блок для стандартной стрелы LF                       | Макс. грузоподъемность 18 т. Управляется тросом 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Специальная                                                    | без шкива, устанавливается для увеличения грузоподъемности при работе со стрелой LF.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Промежуточная секция 3 м                                       | Для 3-метровых промежуточных удлинителей.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

## Notes

Notizen · Notes · Nota · Notas · Notas · пометы, комментарии, примечания

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