

# ATF 400G-6

400 TON MAX. LIFTING CAPACITY

EU STAGE IV

# ALL TERRAIN CRANE



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# GENERAL TECHNICAL DATA

ALLGEMEINE TECHNISCHE DATEN

CARACTÉRISTIQUES TECHNIQUES GÉNÉRALES

DATOS TÉCNICOS GENERALES

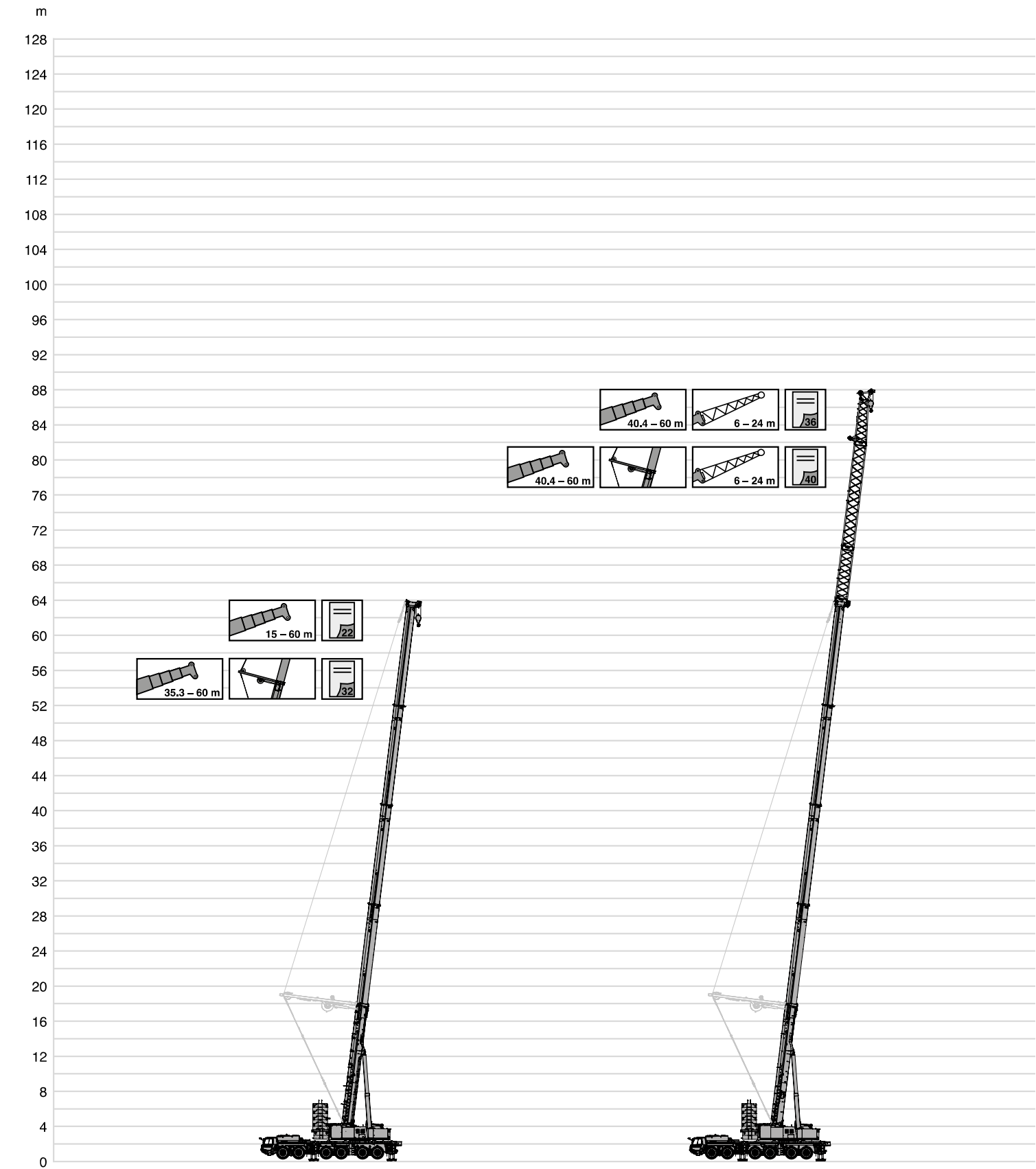
DATI TECNICI GENERALI

ОБЩИЕ ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ

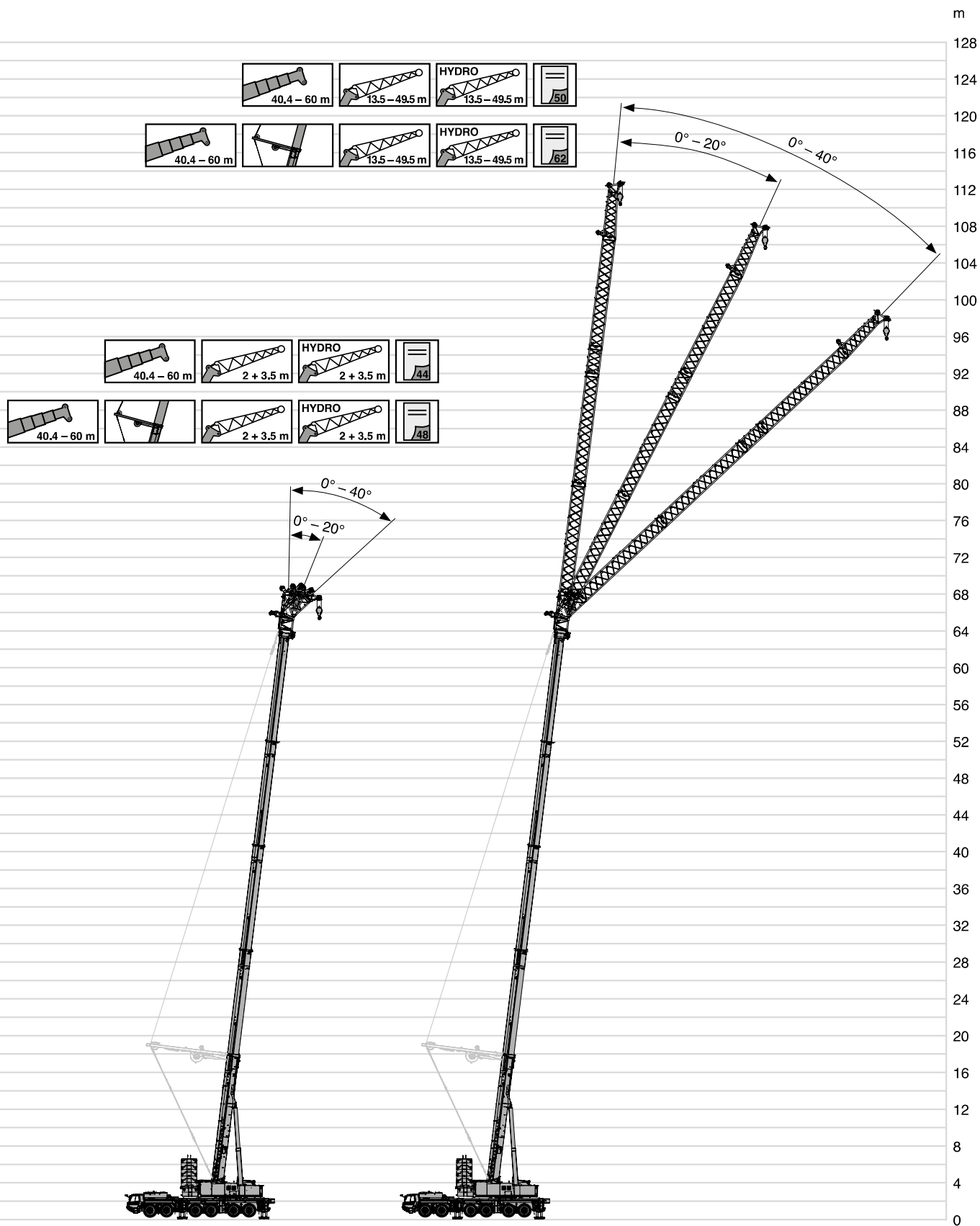


General · Allgemein · Généralités  
Generalidades · Generalità · Общие положения

Boom systems · Auslegersysteme · Systèmes de flèche  
Sistema de pluma · Sistemi di bracci · Конфигурации стрелы

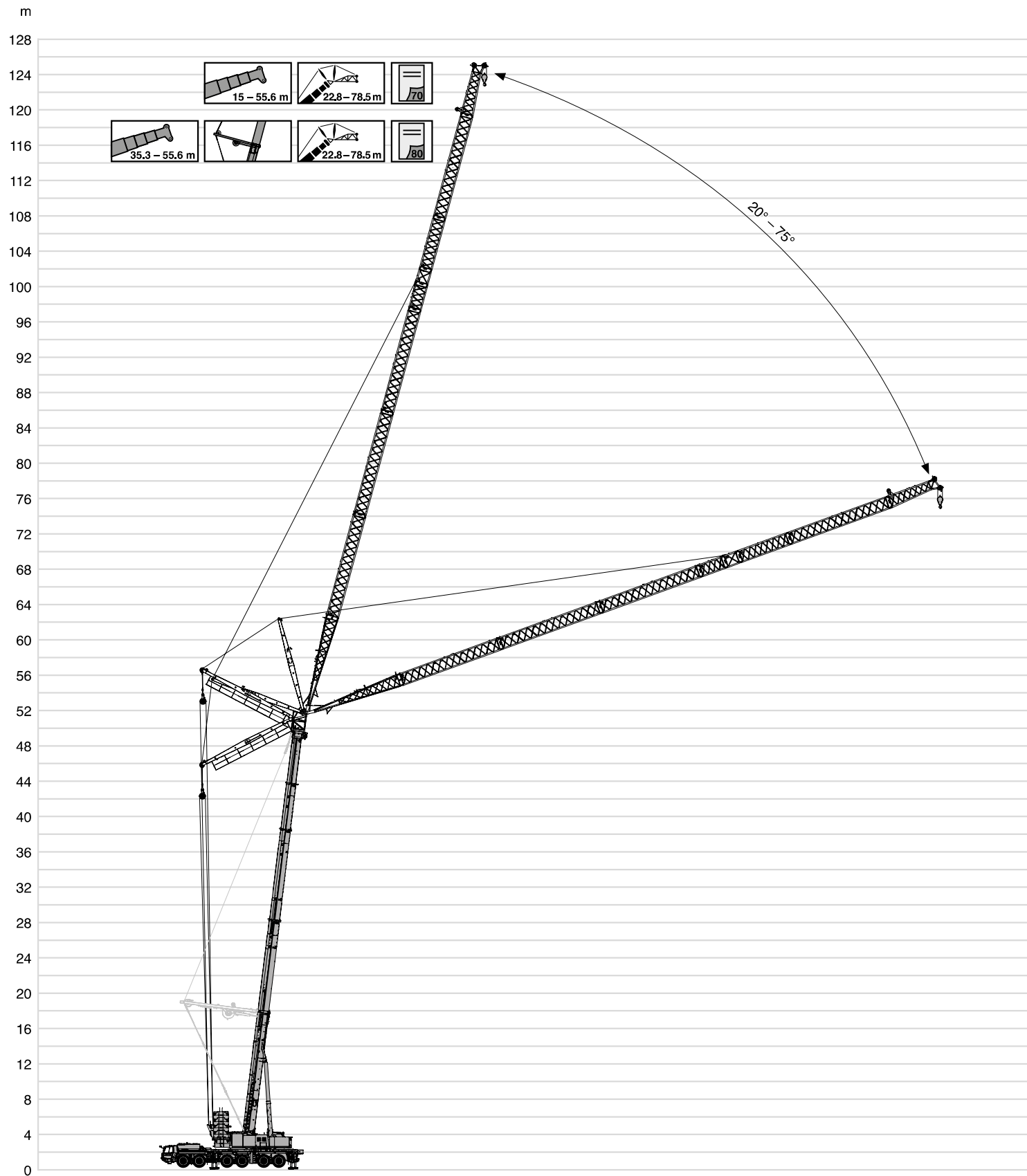


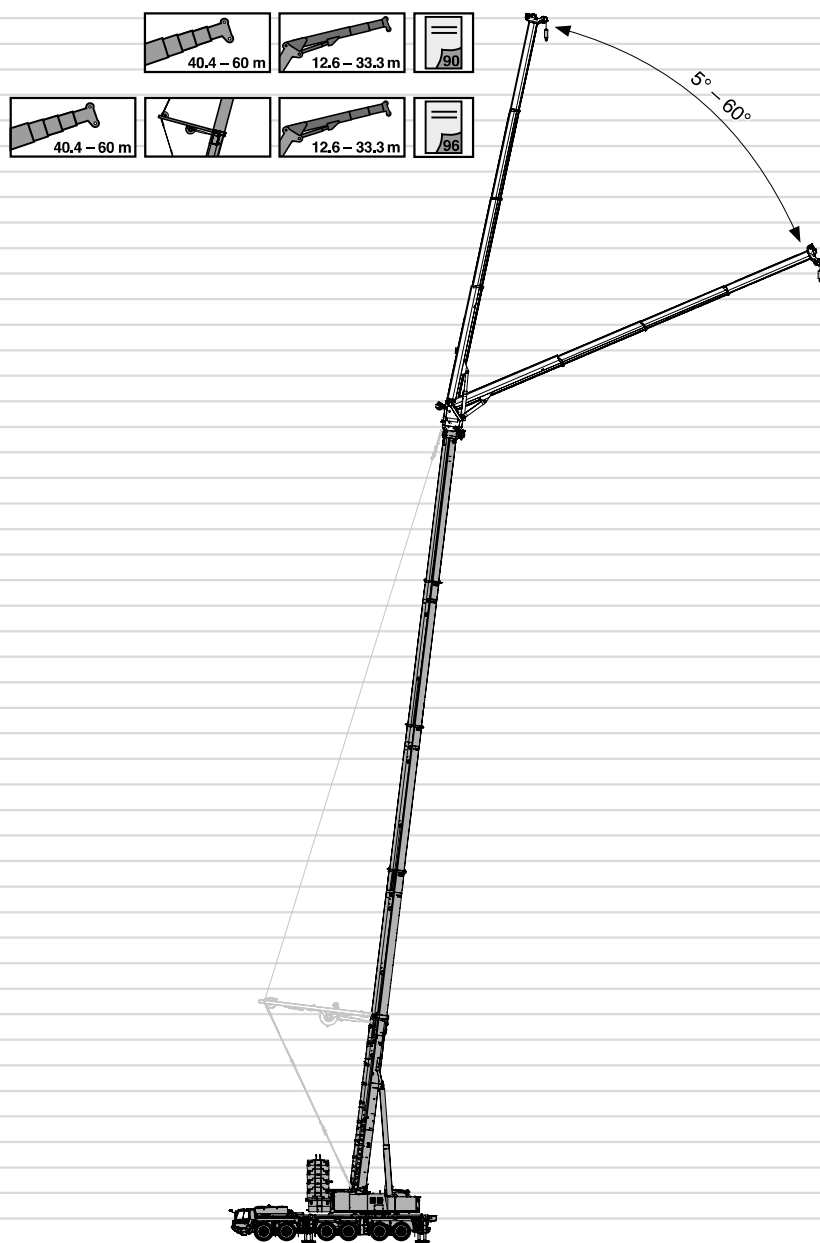




General · Allgemein · Généralités  
Generalidades · Generalità · Общие положения

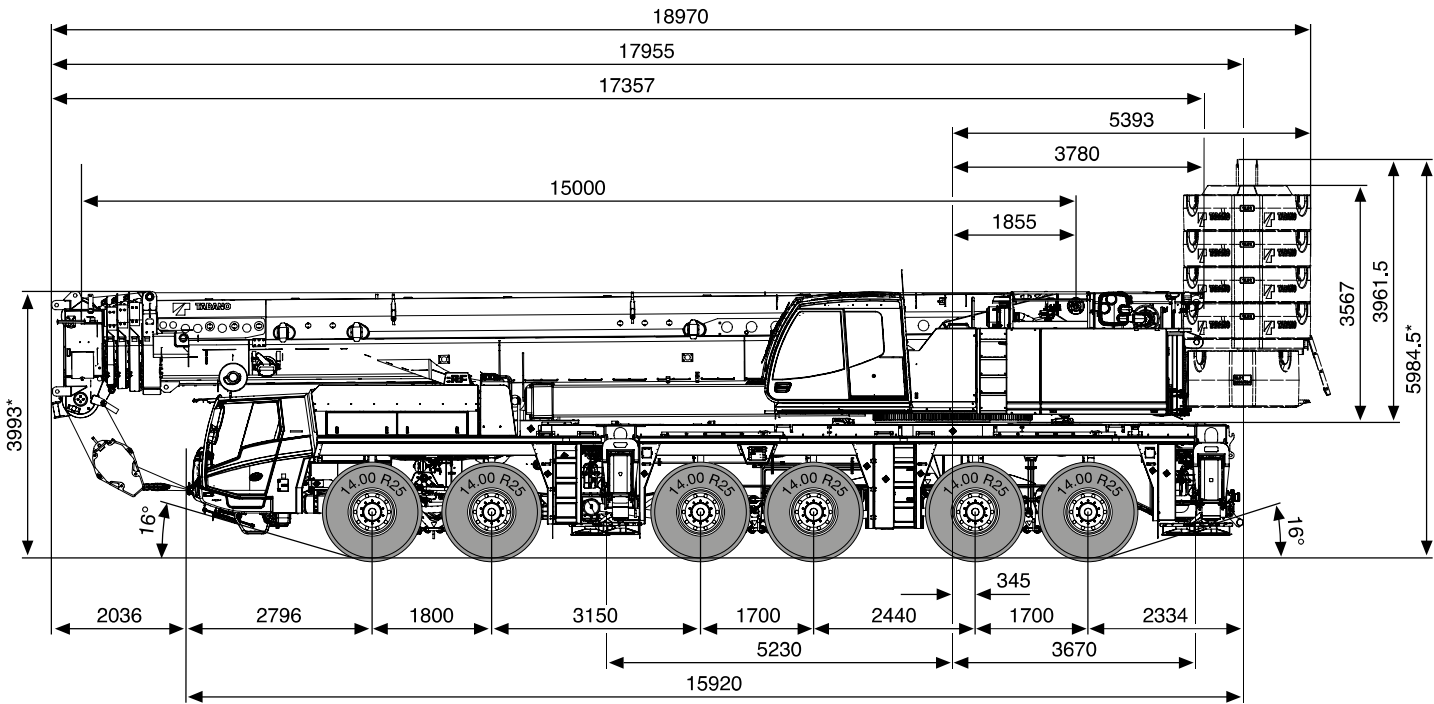
Boom systems · Auslegersysteme · Systèmes de flèche  
Sistema de pluma · Sistemi di bracci · Конфигурации стрелы



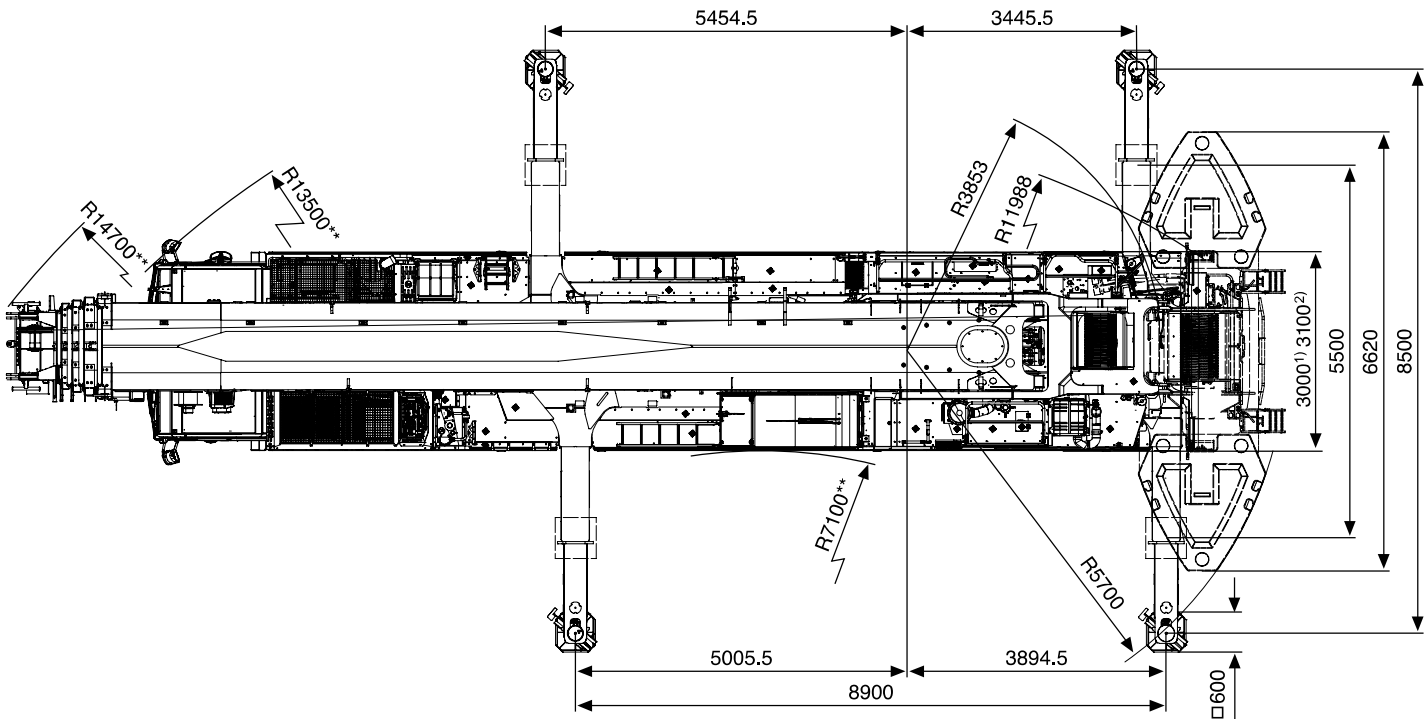


General · Allgemein · Généralités  
 Generalidades · Generalità · Общие положения

Vehicle dimensions · Fahrzeugabmessungen · Dimensions du véhicule  
 Dimensiones del vehículo · Dimensioni veicolo · Габариты машины



\* + 166  
 - 100



1) 385/95 R 25 (14.00 R25)  
 445/95 R 25 (16.00 R25)  
 2) 525/80 R 25 (20.5 R25)

\*\* Minimum · minimum · mínimo · mínimo · мінімальны

# TECHNICAL DATA FOR ON-ROAD AND OFF-ROAD DRIVING

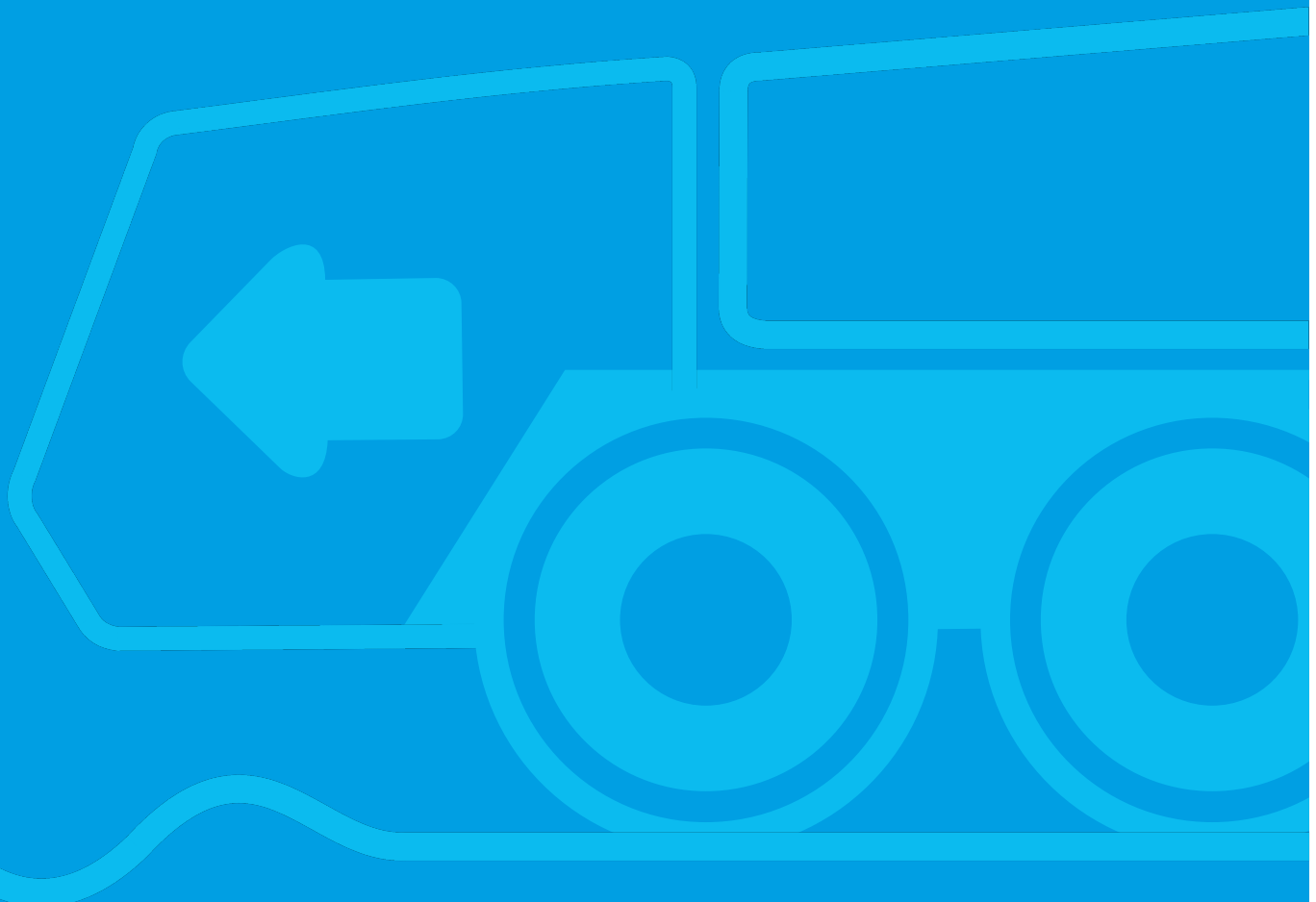
TECHNISCHE DATEN FÜR DIE STRASSEN- UND GELÄNDEFAHRT

CARACTÉRISTIQUES TECHNIQUES POUR MARCHÉ ROUTE ET TOUT TERRAIN

DATOS TÉCNICOS PARA SU TRASLADO POR CARRETERA Y TODO TERRENO

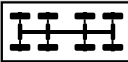
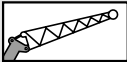
DATI TECNICI PER MARCIA SU STRADA E FUORI STRADA

ТЕХНИЧЕСКИЕ ХАРАКТЕРИСТИКИ ПРИ ДВИЖЕНИИ ПО ДОРОГАМ И БЕЗДОРОЖЬЮ



On-road and off-road driving · Straßen- und Geländefahrt · Marche route et tout terrain  
Traslado por carretera y todoterreno · Marcia su strada e fuori strada  
Движение по дорогам и бездорожью

Axle loads · Achslasten · Charges par essieu  
Cargas por eje · Carichi assiali · Нагрузка на ось

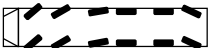
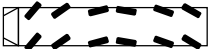
|  | TOTAL      |  |  | TYPE |  |  |
|-----------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| < 12 t                                                                            | < 72 t *** | 12 x 8                                                                            | 445/95 R 25                                                                       | 12,5 | -                                                                                   | 0 t                                                                                 |
| < 16,5 t                                                                          | < 81 t *** | 12 x 8                                                                            | 445/95 R 25                                                                       | 100  | -                                                                                   | 7,5 t                                                                               |
| max **                                                                            | 192 t **** | 12 x 8                                                                            | 445/95 R 25                                                                       | 40   | -                                                                                   | 116 t                                                                               |

\* Axle loads vary depending on equipment mounted. Individual calculation available on demand. · Achslasten variieren je nach Ausrüstungsumfang. Individuelle Berechnung auf Anfrage.  
Las cargas por ejes pueden variar según el equipamiento. Cálculo individual sobre pedido. · Les charges par essieux peuvent varier en fonction de l'équipement monté. Calcul individuel sur demande.  
I carichi degli assi variano in base all'entità dell'equipaggiamento. Calcolo individuale su richiesta. · Нагрузка на оси зависит от установленного оборудования. Индивидуальный расчет по запросу.  
\*\* Construction site · Baustelle · Chantier de construction · Obra · Cantiere · стройплощадка  
\*\*\* Without second winch · Ohne zweite Winde · Sans deuxième treuil · Sin segundo cabrestante · Senza secondo argano · Без второй лебедки  
\*\*\*\* Including second winch · Inklusive zweite Winde · Y compris deuxième treuil · Incl. segundo cabrestante · Incluso secondo argano · Без второй лебедки

Speeds and gradeability · Geschwindigkeiten und Steigfähigkeit · Vitesses de conduite et gravisement de pente  
Velocidades y pendientes superables · Velocità e pendenza · Скорость и грузоподъемность

|  |   |   |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 385/95 R 25                                                                       | 85 km/h max.                                                                                                                                                        | 60 %                                                                                                                                                                    |
| 445/95 R 25<br>525/80 R 25                                                        | 85 km/h max.                                                                                                                                                        | 53,5 %                                                                                                                                                                  |

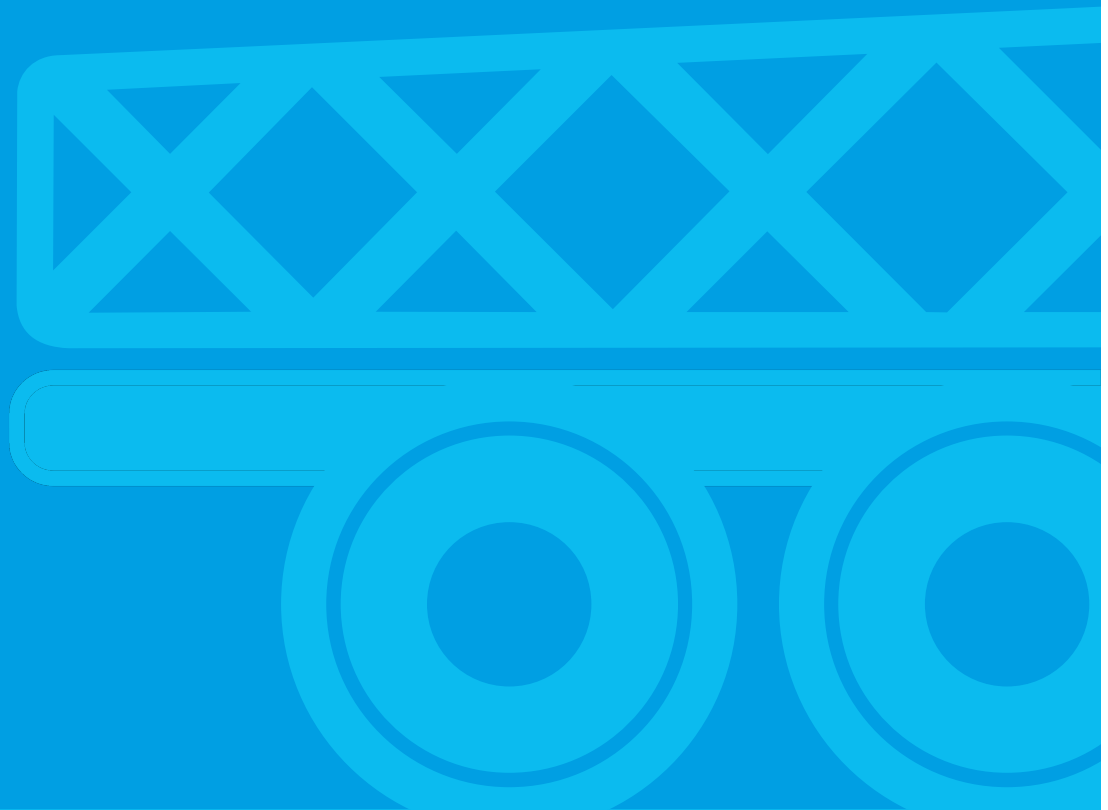
Steering · Lenkung · Direction  
Dirección · Sterzo · Рулевое управление

|                                                                                     |                                                                                     |                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  |  | v < 25 km/h                                                                                                                                                                                                                        |
|                                                                                     |  | 25 km/h ≤ v ≤ 50 km/h                                                                                                                                                                                                              |
|                                                                                     |  | v > 50 km/h                                                                                                                                                                                                                        |
|  |  | Manual steering · Manuelle Lenkung · Direction manuelle<br>Dirección manual · Sterzo manuale · Ручное управление                                                                                                                   |
|                                                                                     |  | Smallest turning circle · Kleinster Wendekreis · Rayon de braquage mini.<br>Mínimo radio · Raggio di sterzata minimo · Минимальный радиус поворота                                                                                 |
|                                                                                     |  | Diagonal steering · Hundegang · Marche en crabe<br>Marcha cangrejo · Sterzata carrello · Движение по диагонали                                                                                                                     |
|                                                                                     |  | Rear veering suppression · Heck-Ausscher-Unterdrückung<br>Suppression de déboîtement AR · Supresión de movimiento transversal de parte posterior<br>Suppressione oscillazione coda veicolo · Компенсация выноса задней части крана |



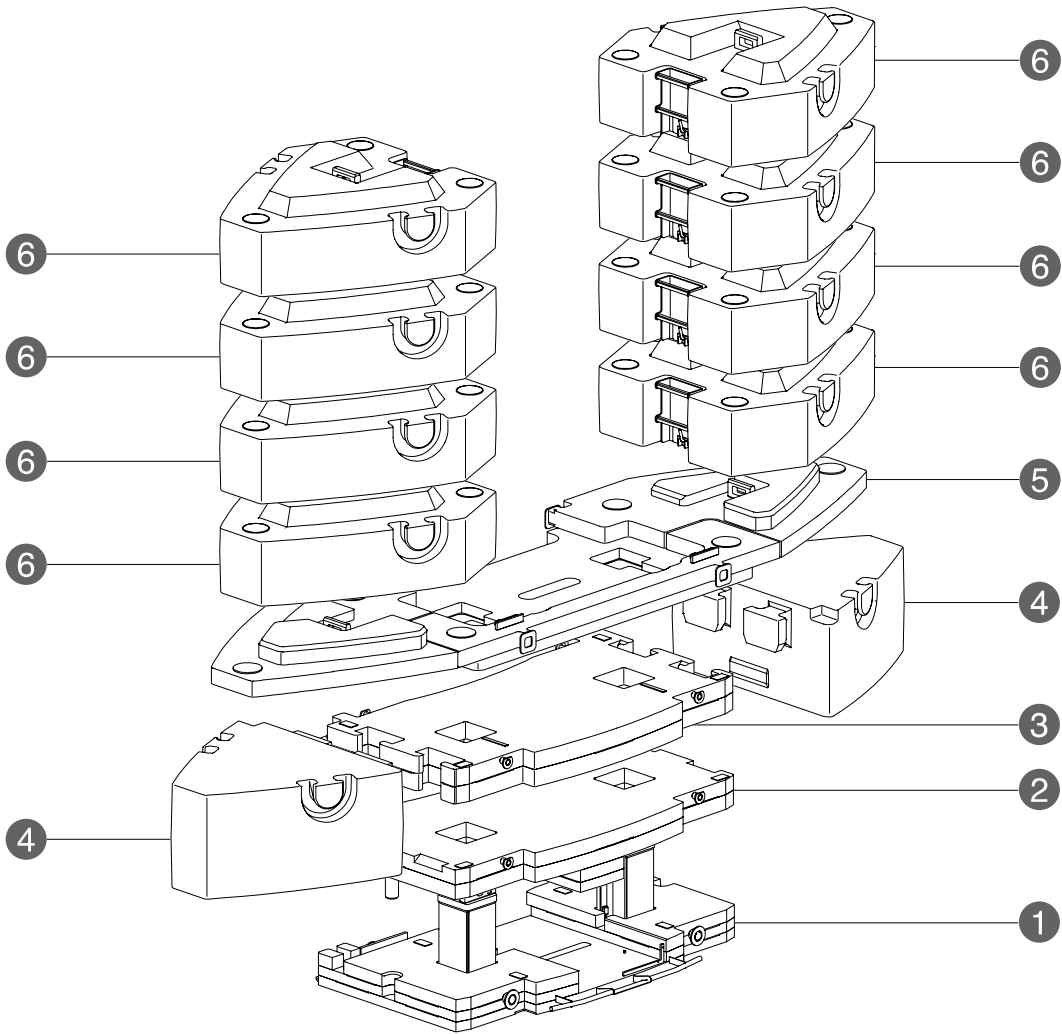
# TECHNICAL DATA FOR TRANSPORT

TECHNISCHE DATEN FÜR DEN TRANSPORT  
CARACTÉRISTIQUES TECHNIQUES POUR LE TRANSPORT  
DATOS TÉCNICOS PARA EL TRANSPORTE  
DATI TECNICI PER IL TRASPORTO  
ТЕХНИЧЕСКИЕ ДАННЫЕ ДЛЯ ТРАНСПОРТИРОВКИ



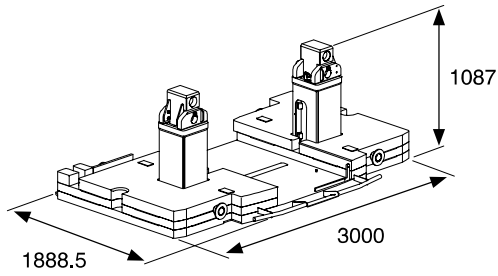
Transport · Transporte  
Trasporto · Транспортировка

Counterweight · Gegengewicht · Contrepoids  
Contrapeso · Contrappeso · Противовес

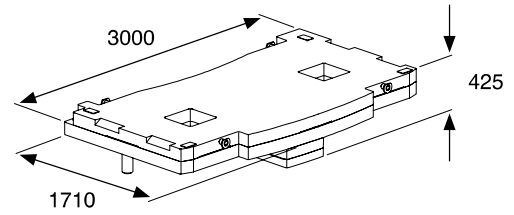


|   |        | 7.5 t | 16.5 t | 25 t | 36 t | 45 t | 56 t | 76 t | 96 t | 116 t | 136 t |
|---|--------|-------|--------|------|------|------|------|------|------|-------|-------|
| 1 | 7.5 t  | 1     | 1      | 1    | 1    | 1    | 1    | 1    | 1    | 1     | 1     |
| 2 | 9.0 t  | -     | 1      | 1    | 1    | 1    | 1    | 1    | 1    | 1     | 1     |
| 3 | 8.5 t  | -     | -      | 1    | 1    | 1    | 1    | 1    | 1    | 1     | 1     |
| 4 | 10.0 t | -     | -      | -    | -    | 2    | 2    | 2    | 2    | 2     | 2     |
| 5 | 11.0 t | -     | -      | -    | 1    | -    | 1    | 1    | 1    | 1     | 1     |
| 6 | 10.0 t | -     | -      | -    | -    | -    | -    | 2    | 4    | 6     | 8     |

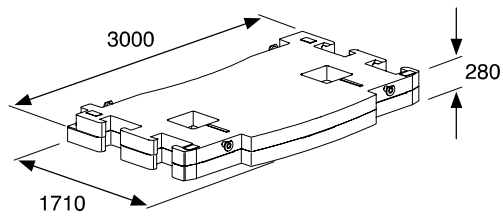
1



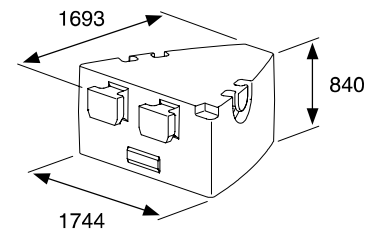
2



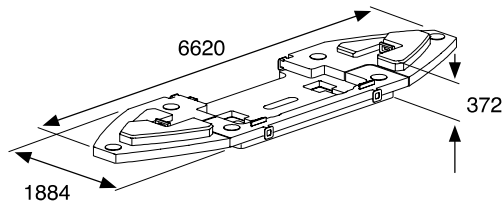
3



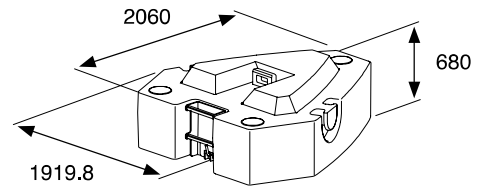
4



5



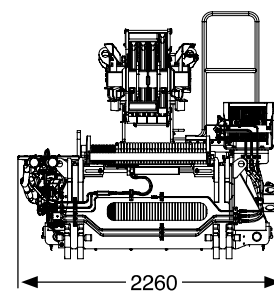
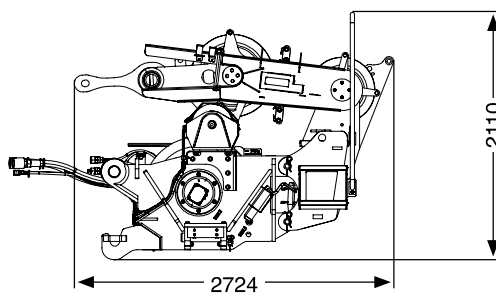
6



Carrier counterweight · Gegengewichtsträger · Porte-contrepois  
Depósito del contrapeso · Supporto contrappeso · Держатель противовеса



5869.7\*



Transport · Transporte  
Trasporto · Транспортировка

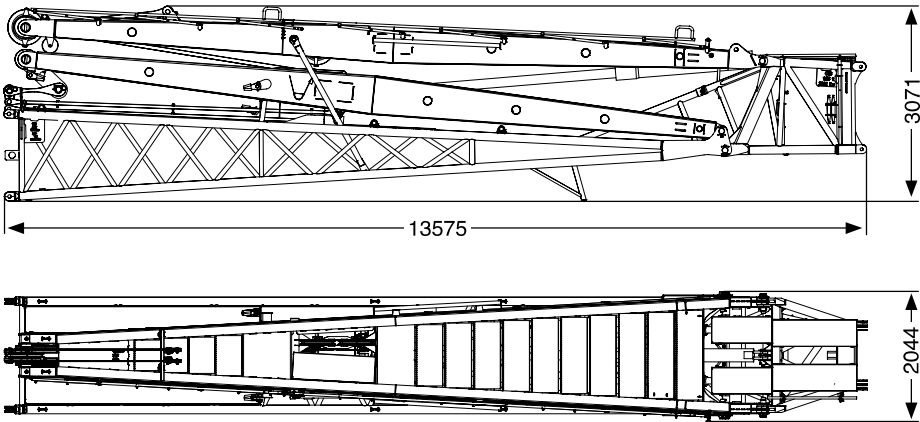
Jibs · Spitzen · Fléchettes  
Plumines · Punte · гусек

|              | <div> <div>m</div> </div> | <div> </div>                      |
|--------------|---------------------------|-----------------------------------|
| <div> </div> | 6 m                       | 8                                 |
|              | 12 m                      | 6 + 8                             |
|              | 18 m                      | 7 + 8                             |
|              | 24 m                      | 6 + 7 + 8                         |
| <div> </div> | 2 m + 3.5 m               | 9 + 10                            |
| <div> </div> | 2 m + 11.5 m              | 9 + 4 + 8                         |
|              | 2 m + 17.5 m              | 9 + 4 + 6 + 8                     |
|              | 2 m + 23.5 m              | 9 + 3 + 4 + 8                     |
|              | 2 m + 29.5 m              | 9 + 3 + 4 + 6 + 8                 |
|              | 2 m + 35.5 m              | 9 + 3 + 4 + 7 + 8                 |
|              | 2 m + 41.5 m              | 9 + 3 + 3 + 4 + 6 + 8             |
|              | 2 m + 47.5 m              | 9 + 3 + 3 + 4 + 7 + 8             |
| <div> </div> | 2.5 m + 20.3 m            | 1 + 4 + 8                         |
|              | 2.5 m + 32.3 m            | 1 + 2 + 4 + 8                     |
|              | 2.5 m + 34 m              | 1 + 2 + 4 + 5 + 8                 |
|              | 2.5 m + 40 m              | 1 + 2 + 4 + 5 + 6 + 8             |
|              | 2.5 m + 46 m              | 1 + 2 + 3 + 4 + 5 + 8             |
|              | 2.5 m + 52 m              | 1 + 2 + 3 + 4 + 5 + 6 + 8         |
|              | 2.5 m + 58 m              | 1 + 2 + 3 + 3 + 4 + 5 + 8         |
|              | 2.5 m + 64 m              | 1 + 2 + 3 + 3 + 4 + 5 + 6 + 8     |
|              | 2.5 m + 70 m              | 1 + 2 + 3 + 3 + 4 + 5 + 7 + 8     |
|              | 2.5 m + 76 m              | 1 + 2 + 3 + 3 + 4 + 5 + 6 + 7 + 8 |
| <div> </div> | 2.5 m + 46 m              | 1 + 2 + 4 + 5 + 7 + 8             |
|              | 2.5 m + 52 m              | 1 + 2 + 4 + 5 + 6 + 7 + 8         |
|              | 2.5 m + 58 m              | 1 + 2 + 3 + 4 + 5 + 7 + 8         |
|              | 2.5 m + 64 m              | 1 + 2 + 3 + 4 + 5 + 6 + 7 + 8     |

1



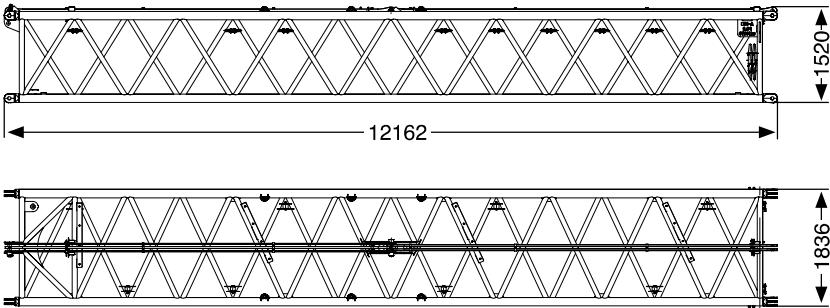
9162



2



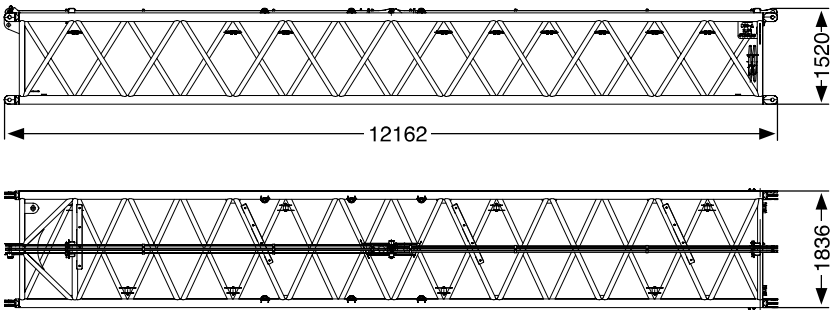
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3



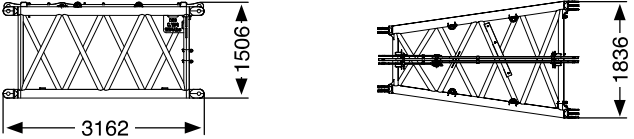
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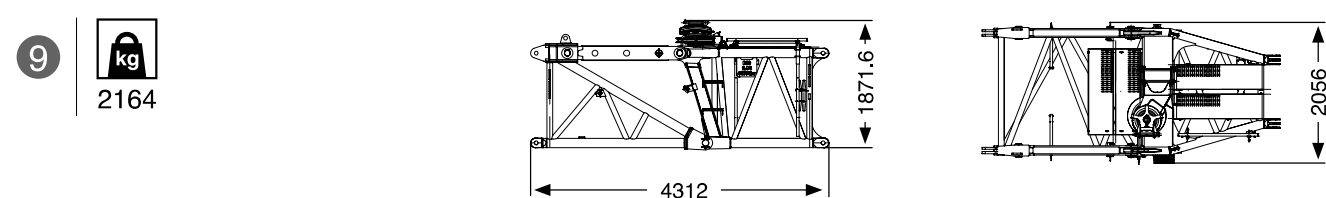
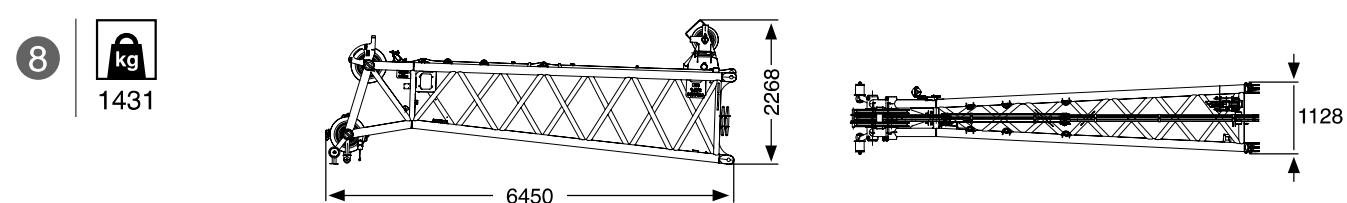
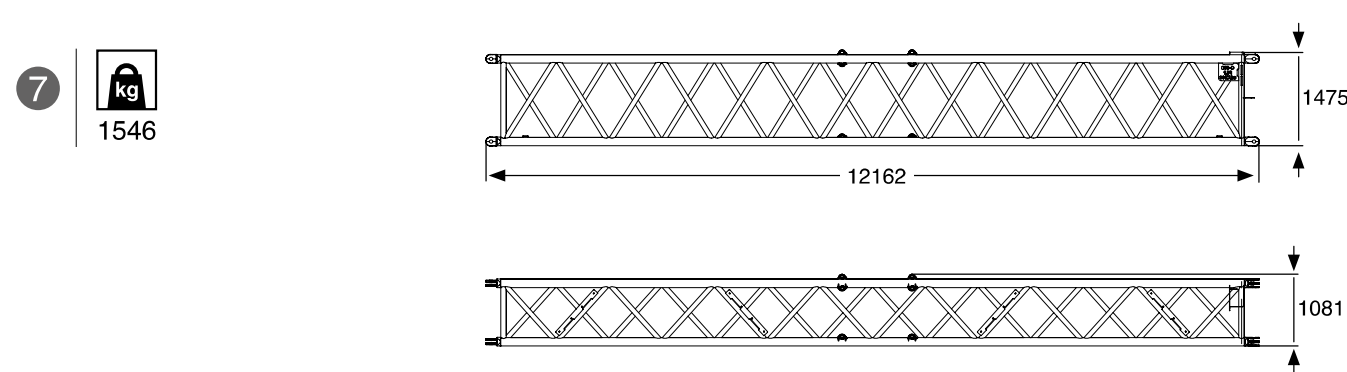
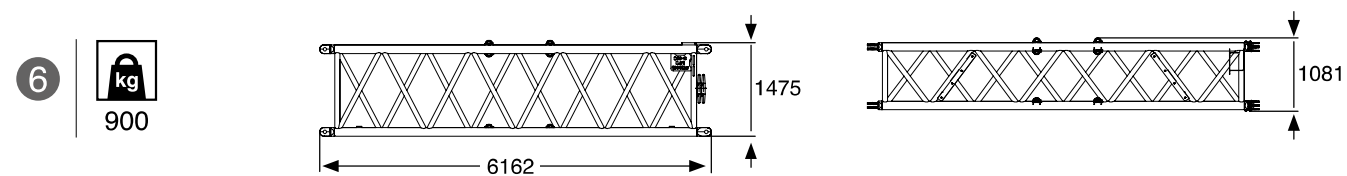


4



716

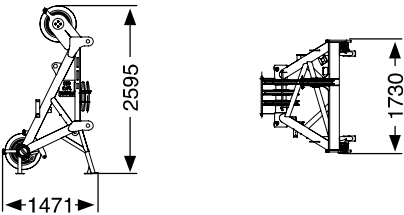




10



579



2 + 6

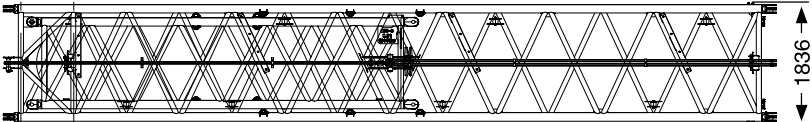
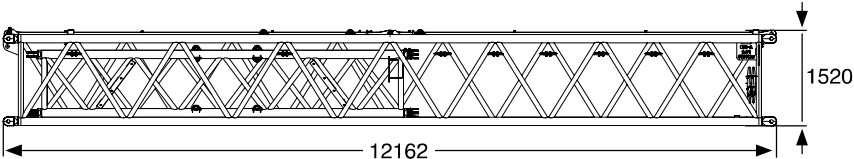


3648

3 + 6



2970



2 + 7

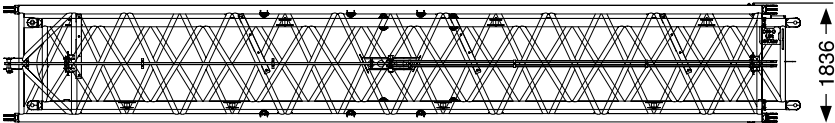
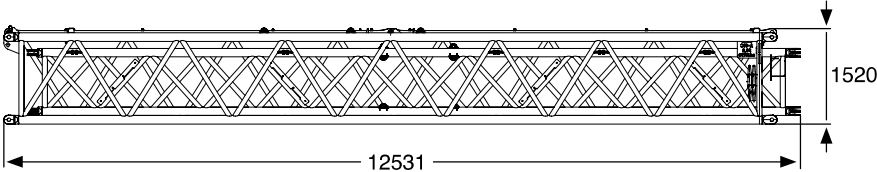


4294

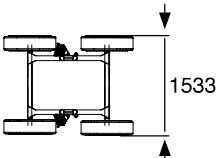
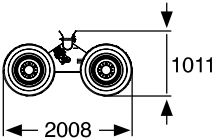
3 + 7



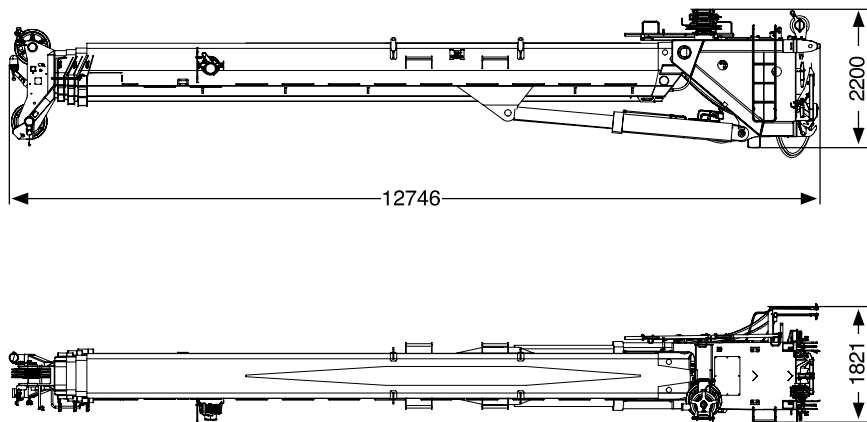
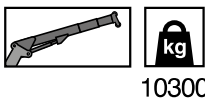
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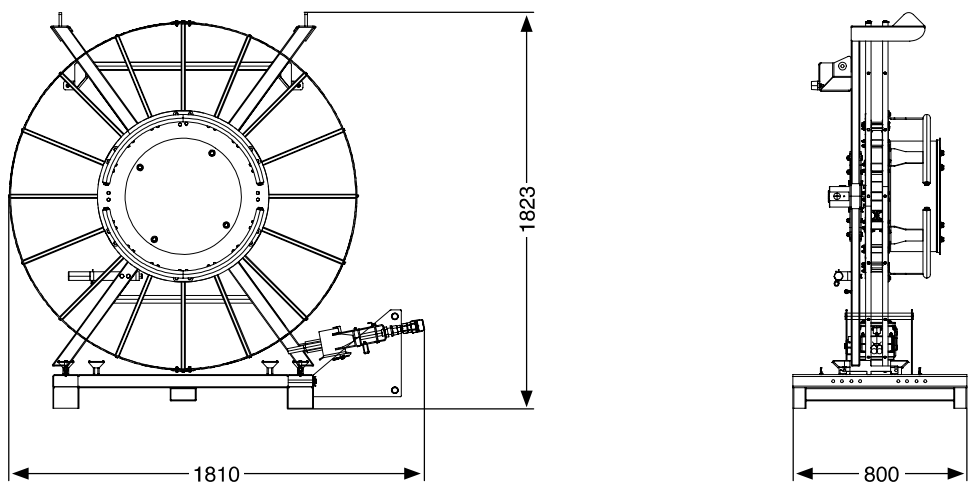
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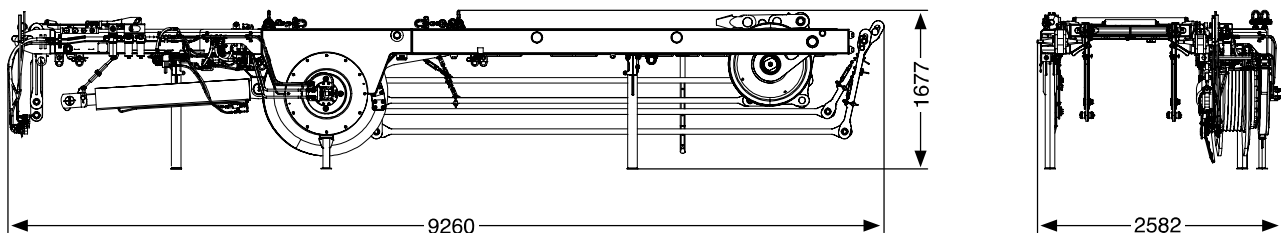
Transport · Transporte  
Trasporto · Транспортировка



Hose drum for hydraulic jib · Schlauchtrommel für hydraulische Spitze · Tambour de flexible pour fléchette hydraulique  
Devanadera para plumín hidráulico · Aspo raccoglitrubo per punta idraulica · Барабан для намотки шланга для гидравлического гуська



Power-System





# TECHNICAL DATA FOR OPERATION

TECHNISCHE DATEN FÜR DEN EINSATZ

CARACTÉRISTIQUES TECHNIQUES POUR L'UTILISATION

DATOS TÉCNICOS PARA EL USO

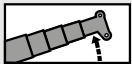
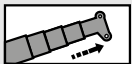
DATI TECNICI PER L'USO

ТЕХНИЧЕСКИЕ ЭКСПЛУАТАЦИОННЫЕ ХАРАКТЕРИСТИКИ



Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Main boom · Hauptausleger · Flèche principale  
Pluma principal · Braccio principale · Главная стрела

|                                                                                  |               |         |
|----------------------------------------------------------------------------------|---------------|---------|
|  | -0.8° – 83.5° | ~ 50 s  |
|  | 15 m – 60 m   | ~ 500 s |

Swing mechanism · Drehwerk · Groupe de rotation  
Mecanismo de giro · Gruppo di rotazione · Поворотный механизм

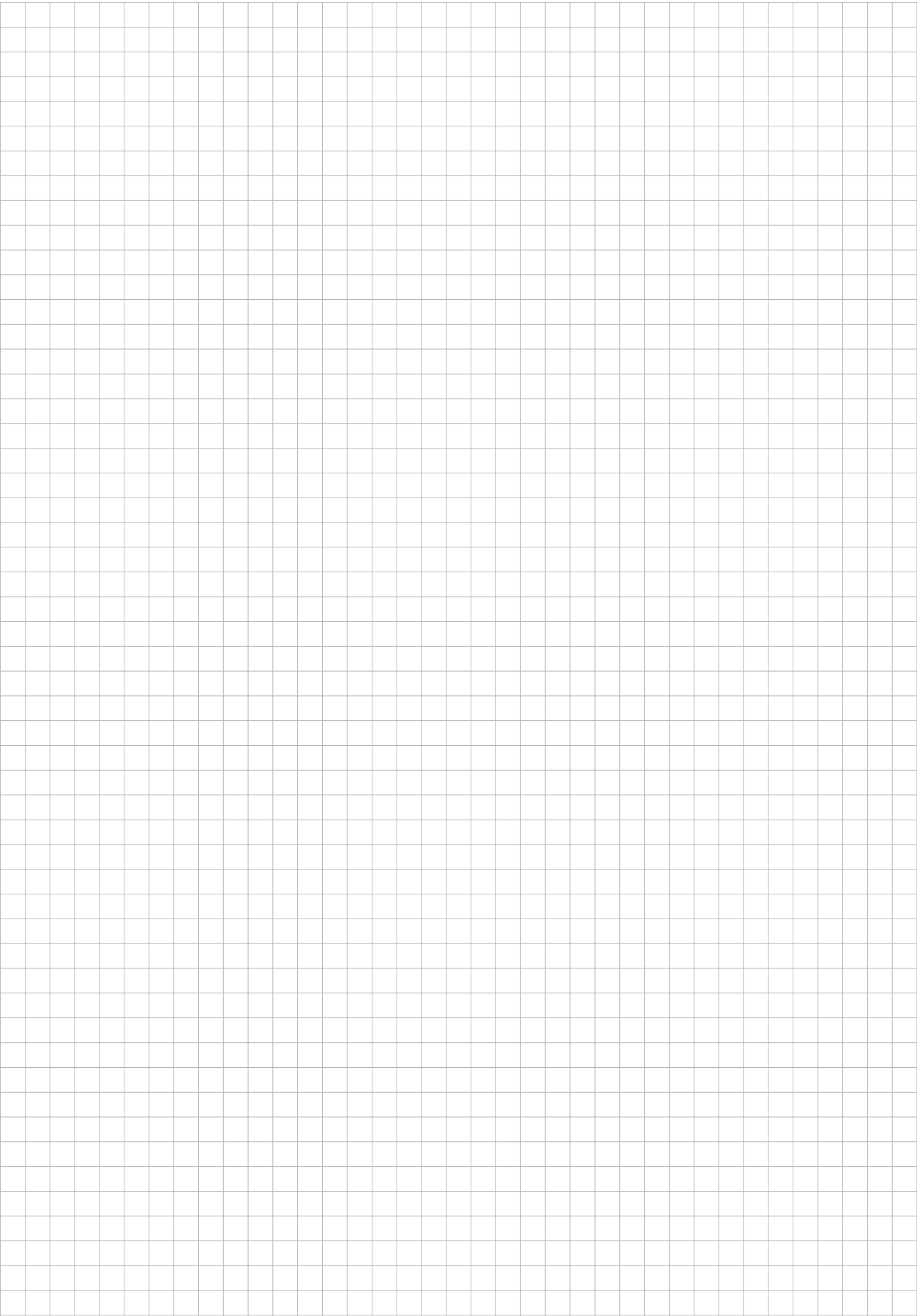
|                                                                                   |                           |                                                                                   |           |
|-----------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------|-----------|
|  | 0 – 1.1 min <sup>-1</sup> |  | 0° / 180° |
|-----------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------|-----------|

Winches · Hubwinden · Treuils  
Cabrestantes · Argani · Лебедка

|                                                                                    |  |  |  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  | 0 – 125 m/min                                                                      | 23 mm / 350 m                                                                      | 120                                                                                  |
|  | 0 – 135 m/min                                                                      | 23 mm / 580 m                                                                      | 120                                                                                  |

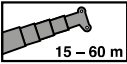
Hook blocks · Unterflaschen · Moufles  
Pastecas de carga · Bozzelli · Крюковые обоймы

|  TYPE |  |  |  |  |
|------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 250*                                                                                     | 221.6                                                                               | 9                                                                                   | 19                                                                                    | 2700                                                                                  |
| 200*                                                                                     | 177.1                                                                               | 7                                                                                   | 15                                                                                    | 2300                                                                                  |
| 160*                                                                                     | 131.4                                                                               | 5                                                                                   | 11                                                                                    | 1800                                                                                  |
| 100*                                                                                     | 84.6                                                                                | 3                                                                                   | 7                                                                                     | 1550                                                                                  |
| 40                                                                                       | 36.7                                                                                | 1                                                                                   | 3                                                                                     | 950                                                                                   |
| 12.5                                                                                     | 12.3                                                                                | -                                                                                   | 1                                                                                     | 410                                                                                   |

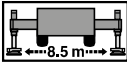


Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



15 – 60 m



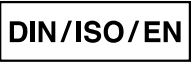
8.5 m



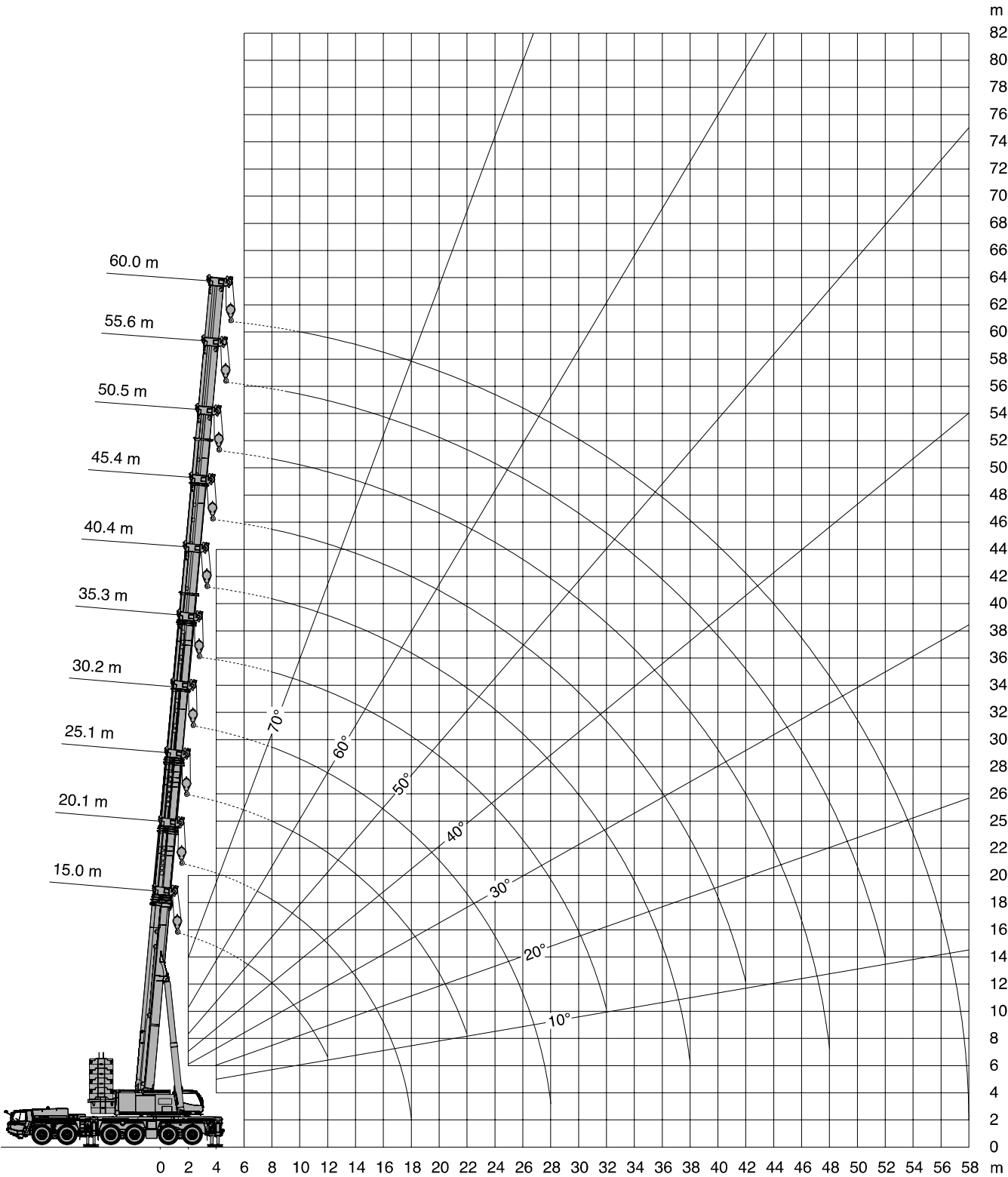
360°



136 t



DIN/ISO/EN



Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность



|  m | 15.0 m*  | 15.0 m      | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|----------|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2.7                                                                                | 400.0 ** |             |        |        |        |        |        |        |        |        |        |
| 3.0                                                                                | 360.0 ** | 1) 200.0 ** | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 307.0 ** | 200.0 **    | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 264.6 ** | 200.0 **    | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 230.0 ** | 195.1 **    | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                | 200.6 ** | 182.9 **    | 170.0  | 162.0  | 139.0  | 123.4  |        |        |        |        |        |
| 6.0                                                                                |          | 164.2       | 162.1  | 158.4  | 139.0  | 113.8  | 84.2   |        |        |        |        |
| 7.0                                                                                |          | 147.4       | 146.0  | 141.2  | 127.9  | 103.1  | 84.2   | 71.6   |        |        |        |
| 8.0                                                                                |          | 133.0       | 131.9  | 127.4  | 118.2  | 94.2   | 84.2   | 71.6   | 54.3   |        |        |
| 9.0                                                                                |          | 120.4       | 120.0  | 116.0  | 109.8  | 86.7   | 79.5   | 69.5   | 54.3   | 45.0   |        |
| 10.0                                                                               |          | 109.8       | 109.4  | 107.0  | 102.6  | 81.2   | 73.6   | 65.7   | 54.3   | 45.0   | 38.0   |
| 11.0                                                                               |          | 97.5        | 100.3  | 98.9   | 96.3   | 76.5   | 68.5   | 62.4   | 54.0   | 45.0   | 38.0   |
| 12.0                                                                               |          | 83.4        | 92.4   | 91.7   | 89.8   | 72.3   | 64.0   | 59.3   | 50.9   | 44.6   | 38.0   |
| 14.0                                                                               |          |             | 78.6   | 79.5   | 78.4   | 65.3   | 56.5   | 52.7   | 45.6   | 40.4   | 38.0   |
| 16.0                                                                               |          |             | 64.1   | 69.4   | 69.2   | 59.5   | 50.5   | 47.1   | 41.3   | 36.9   | 35.0   |
| 18.0                                                                               |          |             | 41.9   | 60.3   | 61.4   | 54.8   | 45.6   | 42.6   | 37.6   | 33.9   | 32.3   |
| 20.0                                                                               |          |             |        | 52.0   | 54.6   | 50.8   | 41.6   | 38.8   | 34.6   | 31.4   | 29.6   |
| 22.0                                                                               |          |             |        | 40.5   | 48.3   | 47.3   | 38.1   | 35.5   | 32.0   | 29.0   | 27.2   |
| 24.0                                                                               |          |             |        |        | 42.0   | 44.4   | 35.2   | 32.7   | 29.7   | 26.9   | 25.1   |
| 26.0                                                                               |          |             |        |        | 36.5   | 40.7   | 32.6   | 30.3   | 27.7   | 25.1   | 23.3   |
| 28.0                                                                               |          |             |        |        | 24.4   | 36.1   | 30.4   | 28.3   | 26.0   | 23.5   | 21.7   |
| 30.0                                                                               |          |             |        |        |        | 31.1   | 28.3   | 26.4   | 24.5   | 22.1   | 20.3   |
| 32.0                                                                               |          |             |        |        |        | 24.5   | 26.3   | 24.8   | 23.1   | 20.8   | 19.0   |
| 34.0                                                                               |          |             |        |        |        |        | 24.5   | 23.5   | 21.9   | 19.6   | 17.9   |
| 36.0                                                                               |          |             |        |        |        |        | 22.0   | 22.3   | 20.8   | 18.6   | 16.7   |
| 38.0                                                                               |          |             |        |        |        |        | 15.0   | 20.9   | 19.6   | 17.7   | 15.6   |
| 40.0                                                                               |          |             |        |        |        |        |        | 19.7   | 18.4   | 16.8   | 14.5   |
| 42.0                                                                               |          |             |        |        |        |        |        | 16.0   | 17.3   | 16.1   | 13.6   |
| 44.0                                                                               |          |             |        |        |        |        |        |        | 16.3   | 15.4   | 12.7   |
| 46.0                                                                               |          |             |        |        |        |        |        |        | 15.4   | 14.7   | 12.0   |
| 48.0                                                                               |          |             |        |        |        |        |        |        | 11.5   | 14.0   | 11.2   |
| 50.0                                                                               |          |             |        |        |        |        |        |        |        | 13.2   | 10.6   |
| 52.0                                                                               |          |             |        |        |        |        |        |        |        | 11.6   | 10.0   |
| 54.0                                                                               |          |             |        |        |        |        |        |        |        |        | 9.4    |
| 56.0                                                                               |          |             |        |        |        |        |        |        |        |        | 8.9    |
| 58.0                                                                               |          |             |        |        |        |        |        |        |        |        | 6.2    |

1) 360° Lifting capacities < 8 m working radius max. 116 t counterweight · 360° Traglasten < 8 m Arbeitsradius max. 116 t Gegengewicht  
360° forces de levage < 8 m portée max. 116 t contrepoids · 360° capacidades de elevación < 8 m radio de giro max. 116 t contrapeso  
Portate a 360° < 8 m raggio di lavoro max. 116 t contrappeso · 360° Грузоподъемность < 8 м Радиус действия макс. 116 т Противовес  
\* Over rear · Nach hinten · A l'arrière · Hacia atrás · Indietro · Назад  
\*\* With additional lifting equipment · Mit Zusatzhubausrüstung · Avec équipement de levage supplémentaire

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

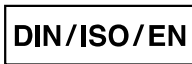
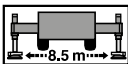
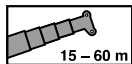


|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 200.0* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 195.1* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                | 182.9* | 170.0  | 162.0  | 139.0  | 123.4  |        |        |        |        |        |
| 6.0                                                                                | 162.3  | 162.1  | 158.4  | 139.0  | 113.8  | 84.2   |        |        |        |        |
| 7.0                                                                                | 144.2  | 143.9  | 141.2  | 127.9  | 103.1  | 84.2   | 71.6   |        |        |        |
| 8.0                                                                                | 129.3  | 128.9  | 127.4  | 118.2  | 94.2   | 84.2   | 71.6   | 54.3   |        |        |
| 9.0                                                                                | 116.9  | 116.5  | 115.8  | 109.8  | 86.7   | 79.5   | 69.5   | 54.3   | 45.0   |        |
| 10.0                                                                               | 106.4  | 106.0  | 105.9  | 102.6  | 81.2   | 73.6   | 65.7   | 54.3   | 45.0   | 38.0   |
| 11.0                                                                               | 97.5   | 97.0   | 97.0   | 96.3   | 76.5   | 68.5   | 62.4   | 54.0   | 45.0   | 38.0   |
| 12.0                                                                               | 83.4   | 89.3   | 89.3   | 89.4   | 72.3   | 64.0   | 59.3   | 50.9   | 44.6   | 38.0   |
| 14.0                                                                               |        | 76.6   | 76.5   | 76.7   | 65.3   | 56.5   | 52.7   | 45.6   | 40.4   | 38.0   |
| 16.0                                                                               |        | 64.1   | 66.2   | 66.3   | 59.5   | 50.5   | 47.1   | 41.3   | 36.9   | 35.0   |
| 18.0                                                                               |        | 41.9   | 58.9   | 58.1   | 54.8   | 45.6   | 42.6   | 37.6   | 33.9   | 32.3   |
| 20.0                                                                               |        |        | 51.0   | 50.1   | 50.8   | 41.6   | 38.8   | 34.6   | 31.4   | 29.6   |
| 22.0                                                                               |        |        | 40.5   | 43.8   | 44.9   | 38.1   | 35.5   | 32.0   | 29.0   | 27.2   |
| 24.0                                                                               |        |        |        | 40.3   | 39.7   | 35.2   | 32.7   | 29.7   | 26.9   | 25.1   |
| 26.0                                                                               |        |        |        | 36.5   | 35.5   | 32.6   | 30.3   | 27.7   | 25.1   | 23.3   |
| 28.0                                                                               |        |        |        | 24.4   | 32.0   | 30.4   | 28.3   | 26.0   | 23.5   | 21.7   |
| 30.0                                                                               |        |        |        |        | 29.0   | 28.1   | 26.4   | 24.5   | 22.1   | 20.3   |
| 32.0                                                                               |        |        |        |        | 24.5   | 25.5   | 24.8   | 23.1   | 20.8   | 19.0   |
| 34.0                                                                               |        |        |        |        |        | 23.1   | 23.5   | 21.9   | 19.6   | 17.9   |
| 36.0                                                                               |        |        |        |        |        | 21.1   | 21.9   | 20.8   | 18.6   | 16.7   |
| 38.0                                                                               |        |        |        |        |        | 15.0   | 20.1   | 19.6   | 17.7   | 15.6   |
| 40.0                                                                               |        |        |        |        |        |        | 18.5   | 18.4   | 16.8   | 14.5   |
| 42.0                                                                               |        |        |        |        |        |        | 16.0   | 17.0   | 16.1   | 13.6   |
| 44.0                                                                               |        |        |        |        |        |        |        | 15.7   | 15.4   | 12.7   |
| 46.0                                                                               |        |        |        |        |        |        |        | 14.6   | 14.7   | 12.0   |
| 48.0                                                                               |        |        |        |        |        |        |        | 11.5   | 13.8   | 11.2   |
| 50.0                                                                               |        |        |        |        |        |        |        |        | 12.8   | 10.6   |
| 52.0                                                                               |        |        |        |        |        |        |        |        | 11.6   | 10.0   |
| 54.0                                                                               |        |        |        |        |        |        |        |        |        | 9.4    |
| 56.0                                                                               |        |        |        |        |        |        |        |        |        | 8.9    |
| 58.0                                                                               |        |        |        |        |        |        |        |        |        | 6.2    |



|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 200.0* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 192.9* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                | 180.6* | 170.0  | 162.0  | 139.0  | 123.4  |        |        |        |        |        |
| 6.0                                                                                | 158.0  | 157.6  | 157.0  | 139.0  | 113.8  | 84.2   |        |        |        |        |
| 7.0                                                                                | 139.9  | 139.6  | 138.9  | 127.9  | 103.1  | 84.2   | 71.6   |        |        |        |
| 8.0                                                                                | 125.2  | 124.8  | 124.1  | 118.2  | 94.2   | 84.2   | 71.6   |        |        |        |
| 9.0                                                                                | 112.9  | 112.5  | 112.5  | 109.8  | 86.7   | 79.5   | 69.5   | 54.3   |        |        |
| 10.0                                                                               | 102.6  | 102.2  | 102.2  | 102.4  | 81.2   | 73.6   | 65.7   | 54.3   | 45.0   | 38.0   |
| 11.0                                                                               | 93.5   | 93.1   | 93.0   | 93.2   | 76.5   | 68.5   | 62.4   | 54.0   | 45.0   | 38.0   |
| 12.0                                                                               | 83.4   | 85.1   | 85.0   | 85.2   | 72.3   | 64.0   | 59.3   | 50.9   | 44.6   | 38.0   |
| 14.0                                                                               |        | 71.9   | 72.8   | 72.0   | 65.3   | 56.5   | 52.7   | 45.6   | 40.4   | 38.0   |
| 16.0                                                                               |        | 59.2   | 60.1   | 59.2   | 59.5   | 50.5   | 47.1   | 41.3   | 36.9   | 35.0   |
| 18.0                                                                               |        | 41.9   | 50.8   | 50.0   | 51.1   | 45.6   | 42.6   | 37.6   | 33.9   | 32.3   |
| 20.0                                                                               |        |        | 43.8   | 44.8   | 43.9   | 41.6   | 38.8   | 34.6   | 31.4   | 29.6   |
| 22.0                                                                               |        |        | 38.3   | 39.3   | 38.4   | 37.7   | 35.5   | 32.0   | 29.0   | 27.2   |
| 24.0                                                                               |        |        |        | 34.8   | 33.8   | 33.0   | 32.7   | 29.7   | 26.9   | 25.1   |
| 26.0                                                                               |        |        |        | 31.0   | 29.9   | 29.2   | 29.6   | 27.7   | 25.1   | 23.3   |
| 28.0                                                                               |        |        |        | 24.4   | 26.8   | 25.9   | 26.8   | 26.0   | 23.5   | 21.7   |
| 30.0                                                                               |        |        |        |        | 24.1   | 23.2   | 24.0   | 24.0   | 22.1   | 20.3   |
| 32.0                                                                               |        |        |        |        | 21.8   | 20.8   | 21.7   | 21.7   | 20.8   | 19.0   |
| 34.0                                                                               |        |        |        |        |        | 18.8   | 19.6   | 19.6   | 19.6   | 17.9   |
| 36.0                                                                               |        |        |        |        |        | 17.1   | 17.9   | 17.8   | 18.2   | 16.7   |
| 38.0                                                                               |        |        |        |        |        | 15.0   | 16.3   | 16.4   | 16.6   | 15.6   |
| 40.0                                                                               |        |        |        |        |        |        | 14.9   | 15.6   | 15.2   | 14.5   |
| 42.0                                                                               |        |        |        |        |        |        | 13.7   | 14.7   | 13.9   | 13.6   |
| 44.0                                                                               |        |        |        |        |        |        |        | 13.5   | 12.8   | 12.7   |
| 46.0                                                                               |        |        |        |        |        |        |        | 12.6   | 11.8   | 11.8   |
| 48.0                                                                               |        |        |        |        |        |        |        | 11.5   | 10.9   | 10.9   |
| 50.0                                                                               |        |        |        |        |        |        |        |        | 10.0   | 10.0   |
| 52.0                                                                               |        |        |        |        |        |        |        |        | 9.3    | 9.3    |
| 54.0                                                                               |        |        |        |        |        |        |        |        |        | 8.6    |
| 56.0                                                                               |        |        |        |        |        |        |        |        |        | 7.9    |
| 58.0                                                                               |        |        |        |        |        |        |        |        |        | 6.2    |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация



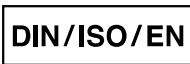
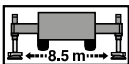
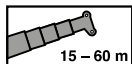
|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 200.0* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 189.0* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                | 175.6* | 170.0  | 162.0  | 139.0  | 123.4  |        |        |        |        |        |
| 6.0                                                                                | 153.2  | 152.8  | 152.2  | 139.0  | 113.8  | 84.2   |        |        |        |        |
| 7.0                                                                                | 135.3  | 134.9  | 134.3  | 127.9  | 103.1  | 84.2   | 71.6   |        |        |        |
| 8.0                                                                                | 120.8  | 120.4  | 120.3  | 118.2  | 94.2   | 84.2   | 71.6   | 54.3   |        |        |
| 9.0                                                                                | 107.9  | 107.5  | 107.5  | 107.7  | 86.7   | 79.5   | 69.5   | 54.3   | 45.0   |        |
| 10.0                                                                               | 97.2   | 96.7   | 96.7   | 95.7   | 81.2   | 73.6   | 65.7   | 54.3   | 45.0   | 38.0   |
| 11.0                                                                               | 88.2   | 87.7   | 87.6   | 84.7   | 76.5   | 68.5   | 62.4   | 54.0   | 45.0   | 38.0   |
| 12.0                                                                               | 77.4   | 76.8   | 77.8   | 75.8   | 72.3   | 64.0   | 59.3   | 50.9   | 44.6   | 38.0   |
| 14.0                                                                               |        | 60.8   | 61.7   | 60.9   | 61.5   | 56.5   | 52.7   | 45.6   | 40.4   | 38.0   |
| 16.0                                                                               |        | 51.7   | 50.7   | 51.9   | 51.1   | 49.4   | 47.1   | 41.3   | 36.9   | 35.0   |
| 18.0                                                                               |        | 41.9   | 44.1   | 43.8   | 43.0   | 42.3   | 41.8   | 37.6   | 33.9   | 32.3   |
| 20.0                                                                               |        |        | 37.9   | 37.5   | 36.6   | 35.8   | 36.3   | 34.6   | 31.4   | 29.6   |
| 22.0                                                                               |        |        | 33.0   | 32.5   | 31.5   | 30.8   | 31.7   | 31.8   | 29.0   | 27.2   |
| 24.0                                                                               |        |        |        | 28.5   | 27.5   | 26.7   | 27.6   | 27.7   | 26.9   | 25.1   |
| 26.0                                                                               |        |        |        | 25.3   | 24.2   | 23.4   | 24.3   | 24.3   | 24.7   | 23.3   |
| 28.0                                                                               |        |        |        | 22.7   | 21.5   | 20.6   | 21.5   | 22.0   | 21.9   | 21.7   |
| 30.0                                                                               |        |        |        |        | 19.2   | 18.3   | 19.2   | 20.3   | 19.6   | 19.7   |
| 32.0                                                                               |        |        |        |        | 17.3   | 17.3   | 17.6   | 18.2   | 17.5   | 17.6   |
| 34.0                                                                               |        |        |        |        |        | 16.4   | 16.6   | 16.5   | 15.7   | 15.9   |
| 36.0                                                                               |        |        |        |        |        | 15.6   | 15.4   | 14.9   | 14.2   | 14.3   |
| 38.0                                                                               |        |        |        |        |        | 14.7   | 14.0   | 13.5   | 12.8   | 12.9   |
| 40.0                                                                               |        |        |        |        |        |        | 12.8   | 12.3   | 11.6   | 11.7   |
| 42.0                                                                               |        |        |        |        |        |        | 11.8   | 11.2   | 10.5   | 10.6   |
| 44.0                                                                               |        |        |        |        |        |        |        | 10.3   | 9.5    | 9.6    |
| 46.0                                                                               |        |        |        |        |        |        |        | 9.4    | 8.6    | 8.7    |
| 48.0                                                                               |        |        |        |        |        |        |        | 8.7    | 7.8    | 7.9    |
| 50.0                                                                               |        |        |        |        |        |        |        |        | 7.1    | 7.2    |
| 52.0                                                                               |        |        |        |        |        |        |        |        | 6.5    | 6.5    |
| 54.0                                                                               |        |        |        |        |        |        |        |        |        | 5.9    |
| 56.0                                                                               |        |        |        |        |        |        |        |        |        | 5.4    |
| 58.0                                                                               |        |        |        |        |        |        |        |        |        | 4.9    |





|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 198.5* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 183.3* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                | 170.0  | 169.6  | 162.0  | 139.0  | 123.4  |        |        |        |        |        |
| 6.0                                                                                | 147.8  | 147.4  | 146.8  | 139.0  | 113.8  | 84.2   |        |        |        |        |
| 7.0                                                                                | 129.3  | 128.9  | 128.9  | 123.7  | 103.1  | 84.2   | 71.6   |        |        |        |
| 8.0                                                                                | 113.9  | 113.4  | 110.3  | 103.7  | 94.2   | 84.2   | 71.6   | 54.3   |        |        |
| 9.0                                                                                | 101.2  | 100.0  | 95.3   | 88.8   | 85.9   | 79.5   | 69.5   | 54.3   | 45.0   |        |
| 10.0                                                                               | 85.0   | 84.4   | 82.8   | 77.4   | 75.3   | 70.8   | 65.7   | 54.3   | 45.0   | 38.0   |
| 11.0                                                                               | 72.9   | 72.4   | 72.9   | 71.1   | 66.9   | 63.0   | 61.0   | 54.0   | 45.0   | 38.0   |
| 12.0                                                                               | 63.6   | 65.1   | 64.1   | 63.7   | 59.9   | 56.5   | 55.0   | 50.9   | 44.6   | 38.0   |
| 14.0                                                                               |        | 51.5   | 52.1   | 51.9   | 49.3   | 46.5   | 46.0   | 44.5   | 40.4   | 38.0   |
| 16.0                                                                               |        | 41.8   | 42.4   | 42.1   | 41.1   | 38.9   | 38.8   | 37.6   | 36.9   | 35.0   |
| 18.0                                                                               |        | 35.0   | 35.3   | 35.0   | 34.0   | 33.0   | 33.1   | 32.5   | 31.7   | 31.0   |
| 20.0                                                                               |        |        | 29.9   | 29.5   | 28.5   | 27.7   | 28.6   | 29.2   | 27.5   | 27.0   |
| 22.0                                                                               |        |        | 26.0   | 25.2   | 24.2   | 24.1   | 25.4   | 25.6   | 24.1   | 23.7   |
| 24.0                                                                               |        |        |        | 23.0   | 20.8   | 22.3   | 22.6   | 22.1   | 21.3   | 20.9   |
| 26.0                                                                               |        |        |        | 20.4   | 18.4   | 20.2   | 19.7   | 19.3   | 18.6   | 18.6   |
| 28.0                                                                               |        |        |        | 18.3   | 17.2   | 17.9   | 17.4   | 16.9   | 16.2   | 16.4   |
| 30.0                                                                               |        |        |        |        | 15.9   | 15.9   | 15.4   | 15.0   | 14.2   | 14.4   |
| 32.0                                                                               |        |        |        |        | 14.4   | 14.2   | 13.7   | 13.3   | 12.5   | 12.7   |
| 34.0                                                                               |        |        |        |        |        | 12.8   | 12.3   | 11.8   | 11.1   | 11.2   |
| 36.0                                                                               |        |        |        |        |        | 11.6   | 11.0   | 10.5   | 9.8    | 9.9    |
| 38.0                                                                               |        |        |        |        |        | 10.6   | 9.9    | 9.4    | 8.7    | 8.8    |
| 40.0                                                                               |        |        |        |        |        |        | 8.9    | 8.4    | 7.7    | 7.8    |
| 42.0                                                                               |        |        |        |        |        |        | 8.1    | 7.5    | 6.8    | 6.9    |
| 44.0                                                                               |        |        |        |        |        |        |        | 6.8    | 6.0    | 6.1    |
| 46.0                                                                               |        |        |        |        |        |        |        | 6.1    | 5.3    | 5.4    |
| 48.0                                                                               |        |        |        |        |        |        |        | 5.5    | 4.7    | 4.7    |
| 50.0                                                                               |        |        |        |        |        |        |        |        | 4.1    | 4.1    |
| 52.0                                                                               |        |        |        |        |        |        |        |        | 3.6    | 3.6    |
| 54.0                                                                               |        |        |        |        |        |        |        |        |        | 3.1    |
| 56.0                                                                               |        |        |        |        |        |        |        |        |        | 2.7    |
| 58.0                                                                               |        |        |        |        |        |        |        |        |        | 2.3    |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация



|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 195.3* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 180.1* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                | 166.8  | 166.4  | 162.0  | 139.0  | 123.4  |        |        |        |        |        |
| 6.0                                                                                | 144.2  | 143.8  | 143.0  | 137.2  | 113.8  | 84.2   |        |        |        |        |
| 7.0                                                                                | 125.0  | 124.6  | 119.6  | 111.3  | 103.1  | 84.2   | 71.6   |        |        |        |
| 8.0                                                                                | 109.8  | 106.5  | 100.6  | 93.1   | 89.4   | 83.3   | 71.6   | 54.3   |        |        |
| 9.0                                                                                | 89.9   | 89.3   | 85.6   | 81.5   | 77.1   | 72.1   | 69.3   | 54.3   | 45.0   |        |
| 10.0                                                                               | 75.3   | 74.8   | 74.2   | 72.1   | 67.5   | 63.3   | 61.1   | 54.3   | 45.0   | 38.0   |
| 11.0                                                                               | 64.5   | 66.0   | 65.0   | 63.8   | 59.8   | 56.2   | 54.5   | 52.9   | 45.0   | 38.0   |
| 12.0                                                                               | 56.2   | 57.6   | 58.2   | 57.0   | 53.5   | 50.2   | 49.4   | 47.5   | 44.6   | 38.0   |
| 14.0                                                                               |        | 45.4   | 46.0   | 45.8   | 43.4   | 40.7   | 40.4   | 39.0   | 38.2   | 37.2   |
| 16.0                                                                               |        | 37.0   | 37.6   | 37.3   | 36.1   | 33.8   | 33.8   | 34.1   | 32.1   | 31.4   |
| 18.0                                                                               |        | 30.6   | 31.1   | 30.6   | 29.5   | 28.7   | 30.6   | 29.2   | 27.4   | 26.8   |
| 20.0                                                                               |        |        | 26.2   | 26.9   | 24.6   | 26.2   | 26.5   | 25.3   | 23.7   | 23.2   |
| 22.0                                                                               |        |        | 22.5   | 23.0   | 21.5   | 23.1   | 22.6   | 22.1   | 20.6   | 20.2   |
| 24.0                                                                               |        |        |        | 20.0   | 19.8   | 19.9   | 19.4   | 19.0   | 18.1   | 17.8   |
| 26.0                                                                               |        |        |        | 17.5   | 17.3   | 17.4   | 16.9   | 16.4   | 15.7   | 15.7   |
| 28.0                                                                               |        |        |        | 15.7   | 15.2   | 15.3   | 14.8   | 14.3   | 13.6   | 13.8   |
| 30.0                                                                               |        |        |        |        | 13.5   | 13.5   | 13.0   | 12.5   | 11.8   | 12.0   |
| 32.0                                                                               |        |        |        |        | 12.1   | 12.0   | 11.5   | 11.0   | 10.3   | 10.4   |
| 34.0                                                                               |        |        |        |        |        | 10.7   | 10.2   | 9.7    | 9.0    | 9.1    |
| 36.0                                                                               |        |        |        |        |        | 9.6    | 9.0    | 8.6    | 7.8    | 8.0    |
| 38.0                                                                               |        |        |        |        |        | 8.7    | 8.1    | 7.6    | 6.8    | 6.9    |
| 40.0                                                                               |        |        |        |        |        |        | 7.2    | 6.7    | 5.9    | 6.0    |
| 42.0                                                                               |        |        |        |        |        |        | 6.5    | 5.9    | 5.2    | 5.2    |
| 44.0                                                                               |        |        |        |        |        |        |        | 5.2    | 4.5    | 4.5    |
| 46.0                                                                               |        |        |        |        |        |        |        | 4.6    | 3.8    | 3.9    |
| 48.0                                                                               |        |        |        |        |        |        |        | 4.1    | 3.3    | 3.3    |
| 50.0                                                                               |        |        |        |        |        |        |        |        | 2.7    | 2.8    |
| 52.0                                                                               |        |        |        |        |        |        |        |        | 2.3    | 2.3    |
| 54.0                                                                               |        |        |        |        |        |        |        |        |        | 1.9    |
| 56.0                                                                               |        |        |        |        |        |        |        |        |        | 1.5    |



|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 192.1* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 177.0* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                | 163.7  | 163.4  | 162.0  | 139.0  | 123.4  |        |        |        |        |        |
| 6.0                                                                                | 139.8  | 139.3  | 131.2  | 120.1  | 109.8  | 84.2   |        |        |        |        |
| 7.0                                                                                | 120.9  | 113.6  | 106.2  | 97.2   | 92.5   | 84.2   | 71.6   |        |        |        |
| 8.0                                                                                | 97.9   | 92.8   | 87.9   | 84.2   | 78.0   | 72.4   | 69.2   | 54.3   |        |        |
| 9.0                                                                                | 79.4   | 78.2   | 74.6   | 72.1   | 67.1   | 62.5   | 60.6   | 54.3   | 45.0   |        |
| 10.0                                                                               | 66.4   | 68.0   | 66.5   | 62.8   | 58.3   | 54.3   | 52.9   | 50.5   | 45.0   | 38.0   |
| 11.0                                                                               | 56.7   | 58.2   | 58.3   | 55.0   | 51.1   | 47.6   | 46.8   | 45.9   | 43.5   | 38.0   |
| 12.0                                                                               | 49.2   | 50.7   | 51.3   | 48.7   | 45.3   | 42.2   | 41.7   | 41.5   | 39.0   | 37.8   |
| 14.0                                                                               |        | 39.2   | 39.9   | 39.2   | 36.4   | 35.2   | 35.9   | 34.1   | 31.9   | 31.1   |
| 16.0                                                                               |        | 31.0   | 31.8   | 32.5   | 30.0   | 31.6   | 30.0   | 28.5   | 26.7   | 26.0   |
| 18.0                                                                               |        | 25.5   | 26.0   | 26.8   | 25.8   | 26.9   | 25.5   | 24.2   | 22.6   | 22.1   |
| 20.0                                                                               |        |        | 21.7   | 22.4   | 22.3   | 22.6   | 22.0   | 20.8   | 19.3   | 18.9   |
| 22.0                                                                               |        |        | 18.5   | 19.1   | 18.9   | 19.1   | 18.6   | 18.0   | 16.7   | 16.3   |
| 24.0                                                                               |        |        |        | 16.4   | 16.2   | 16.4   | 15.9   | 15.4   | 14.4   | 14.2   |
| 26.0                                                                               |        |        |        | 14.3   | 14.1   | 14.2   | 13.7   | 13.2   | 12.5   | 12.3   |
| 28.0                                                                               |        |        |        | 12.7   | 12.3   | 12.3   | 11.8   | 11.4   | 10.7   | 10.8   |
| 30.0                                                                               |        |        |        |        | 10.8   | 10.8   | 10.3   | 9.8    | 9.1    | 9.2    |
| 32.0                                                                               |        |        |        |        | 9.6    | 9.5    | 9.0    | 8.5    | 7.8    | 7.9    |
| 34.0                                                                               |        |        |        |        |        | 8.4    | 7.8    | 7.3    | 6.6    | 6.7    |
| 36.0                                                                               |        |        |        |        |        | 7.4    | 6.8    | 6.4    | 5.6    | 5.7    |
| 38.0                                                                               |        |        |        |        |        | 6.7    | 6.0    | 5.5    | 4.8    | 4.9    |
| 40.0                                                                               |        |        |        |        |        |        | 5.2    | 4.7    | 4.0    | 4.1    |
| 42.0                                                                               |        |        |        |        |        |        | 4.6    | 4.0    | 3.3    | 3.4    |
| 44.0                                                                               |        |        |        |        |        |        |        | 3.4    | 2.7    | 2.8    |
| 46.0                                                                               |        |        |        |        |        |        |        | 2.9    | 2.1    | 2.2    |
| 48.0                                                                               |        |        |        |        |        |        |        | 2.5    | 1.6    | 1.7    |



|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|--------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                  | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                  | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                  | 188.2* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                  | 173.1* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 5.0                                                                                  | 158.5  | 158.1  | 144.9  | 131.4  | 117.8  |        |        |        |        |        |
| 6.0                                                                                  | 134.4  | 122.1  | 112.2  | 103.7  | 95.1   | 84.2   |        |        |        |        |
| 7.0                                                                                  | 105.9  | 95.4   | 89.4   | 84.9   | 77.7   | 71.4   | 68.0   |        |        |        |
| 8.0                                                                                  | 83.8   | 80.6   | 76.0   | 70.6   | 64.6   | 59.3   | 57.2   | 54.0   |        |        |
| 9.0                                                                                  | 67.8   | 67.3   | 63.7   | 59.4   | 54.6   | 50.3   | 50.6   | 48.1   | 44.7   |        |
| 10.0                                                                                 | 56.4   | 57.0   | 54.4   | 51.0   | 47.0   | 45.4   | 44.8   | 42.1   | 39.2   | 37.8   |
| 11.0                                                                                 | 47.3   | 49.1   | 47.2   | 44.4   | 40.9   | 42.1   | 39.5   | 37.3   | 34.7   | 33.5   |
| 12.0                                                                                 | 39.8   | 41.6   | 41.8   | 40.8   | 36.5   | 37.4   | 35.2   | 33.2   | 30.9   | 30.0   |
| 14.0                                                                                 |        | 31.2   | 32.2   | 32.8   | 31.4   | 30.3   | 28.6   | 27.0   | 25.0   | 24.3   |
| 16.0                                                                                 |        | 24.4   | 25.2   | 26.1   | 25.9   | 25.1   | 23.7   | 22.3   | 20.6   | 20.1   |
| 18.0                                                                                 |        | 19.8   | 20.4   | 21.2   | 21.1   | 21.2   | 19.9   | 18.7   | 17.2   | 16.8   |
| 20.0                                                                                 |        |        | 16.8   | 17.5   | 17.4   | 17.6   | 16.9   | 15.9   | 14.5   | 14.2   |
| 22.0                                                                                 |        |        | 14.1   | 14.7   | 14.5   | 14.7   | 14.2   | 13.5   | 12.2   | 12.0   |
| 24.0                                                                                 |        |        |        | 12.5   | 12.3   | 12.4   | 11.9   | 11.5   | 10.4   | 10.2   |
| 26.0                                                                                 |        |        |        | 10.7   | 10.5   | 10.6   | 10.1   | 9.6    | 8.8    | 8.6    |
| 28.0                                                                                 |        |        |        | 9.4    | 9.0    | 9.1    | 8.5    | 8.1    | 7.4    | 7.3    |
| 30.0                                                                                 |        |        |        |        | 7.8    | 7.8    | 7.2    | 6.8    | 6.1    | 6.2    |
| 32.0                                                                                 |        |        |        |        | 6.8    | 6.7    | 6.1    | 5.7    | 5.0    | 5.1    |
| 34.0                                                                                 |        |        |        |        |        | 5.8    | 5.2    | 4.7    | 4.0    | 4.1    |
| 36.0                                                                                 |        |        |        |        |        | 5.0    | 4.4    | 3.9    | 3.2    | 3.3    |
| 38.0                                                                                 |        |        |        |        |        | 4.4    | 3.7    | 3.2    | 2.4    | 2.5    |
| 40.0                                                                                 |        |        |        |        |        |        | 3.0    | 2.5    | 1.8    | 1.8    |
| 42.0                                                                                 |        |        |        |        |        |        | 2.5    | 1.9    |        |        |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация



|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 185.2* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 168.8  | 168.4  | 148.7  | 132.5  |        |        |        |        |        |        |
| 5.0                                                                                | 154.1  | 143.9  | 128.5  | 114.2  | 104.3  |        |        |        |        |        |
| 6.0                                                                                | 118.9  | 105.0  | 97.5   | 90.5   | 81.7   | 73.4   |        |        |        |        |
| 7.0                                                                                | 90.9   | 84.9   | 78.8   | 72.0   | 64.9   | 58.9   | 57.4   |        |        |        |
| 8.0                                                                                | 71.8   | 67.8   | 63.5   | 58.7   | 53.3   | 52.9   | 49.6   | 46.1   |        |        |
| 9.0                                                                                | 58.2   | 55.7   | 53.2   | 51.1   | 45.7   | 45.6   | 42.5   | 39.6   | 36.6   |        |
| 10.0                                                                               | 47.0   | 46.9   | 45.2   | 43.8   | 41.4   | 39.5   | 36.9   | 34.5   | 31.9   | 30.7   |
| 11.0                                                                               | 38.5   | 40.2   | 39.1   | 38.1   | 36.2   | 34.6   | 32.4   | 30.4   | 28.0   | 27.1   |
| 12.0                                                                               | 32.2   | 34.0   | 34.2   | 33.6   | 31.9   | 30.7   | 28.7   | 26.9   | 24.8   | 24.0   |
| 14.0                                                                               |        | 25.1   | 26.1   | 26.7   | 25.5   | 24.6   | 23.0   | 21.6   | 19.8   | 19.2   |
| 16.0                                                                               |        | 19.4   | 20.2   | 21.1   | 20.9   | 20.2   | 18.8   | 17.6   | 16.0   | 15.6   |
| 18.0                                                                               |        | 15.5   | 16.1   | 16.9   | 16.8   | 16.8   | 15.6   | 14.5   | 13.0   | 12.7   |
| 20.0                                                                               |        |        | 13.0   | 13.7   | 13.6   | 13.9   | 13.0   | 12.0   | 10.6   | 10.3   |
| 22.0                                                                               |        |        | 10.8   | 11.4   | 11.2   | 11.4   | 10.9   | 9.9    | 8.6    | 8.4    |
| 24.0                                                                               |        |        |        | 9.4    | 9.2    | 9.4    | 8.9    | 8.2    | 7.0    | 6.8    |
| 26.0                                                                               |        |        |        | 7.9    | 7.6    | 7.7    | 7.2    | 6.7    | 5.6    | 5.5    |
| 28.0                                                                               |        |        |        | 6.8    | 6.3    | 6.4    | 5.9    | 5.4    | 4.5    | 4.4    |
| 30.0                                                                               |        |        |        |        | 5.3    | 5.3    | 4.7    | 4.3    | 3.5    | 3.4    |
| 32.0                                                                               |        |        |        |        | 4.4    | 4.3    | 3.8    | 3.3    | 2.6    | 2.5    |
| 34.0                                                                               |        |        |        |        |        | 3.5    | 3.0    | 2.5    |        |        |
| 36.0                                                                               |        |        |        |        |        | 2.9    | 2.3    | 1.8    |        |        |
| 38.0                                                                               |        |        |        |        |        | 2.4    | 1.7    |        |        |        |



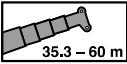
|  m | 15.0 m | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|--------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                  | 200.0* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                  | 199.3* | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                  | 180.9* | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                  | 163.8  | 146.8  | 128.4  | 115.3  |        |        |        |        |        |        |
| 5.0                                                                                  | 141.1  | 120.3  | 108.6  | 98.5   | 86.6   |        |        |        |        |        |
| 6.0                                                                                  | 99.1   | 90.8   | 82.0   | 73.4   | 65.0   | 63.3   |        |        |        |        |
| 7.0                                                                                  | 73.1   | 68.0   | 63.3   | 59.5   | 54.8   | 51.2   | 46.9   |        |        |        |
| 8.0                                                                                  | 56.4   | 53.6   | 50.8   | 48.4   | 45.1   | 42.5   | 39.2   | 36.2   |        |        |
| 9.0                                                                                  | 45.2   | 43.7   | 42.0   | 40.5   | 38.0   | 36.0   | 33.3   | 30.9   | 28.1   |        |
| 10.0                                                                                 | 36.4   | 36.5   | 35.4   | 34.5   | 32.5   | 31.0   | 28.7   | 26.6   | 24.3   | 23.3   |
| 11.0                                                                                 | 29.4   | 31.1   | 30.4   | 29.8   | 28.2   | 27.0   | 25.0   | 23.2   | 20.9   | 20.0   |
| 12.0                                                                                 | 24.3   | 26.1   | 26.4   | 26.1   | 24.7   | 23.7   | 21.8   | 20.1   | 18.0   | 17.4   |
| 14.0                                                                                 |        | 18.9   | 19.9   | 20.1   | 19.0   | 18.3   | 16.8   | 15.4   | 13.7   | 13.2   |
| 16.0                                                                                 |        | 13.9   | 14.8   | 15.7   | 15.0   | 14.4   | 13.2   | 12.0   | 10.5   | 10.2   |
| 18.0                                                                                 |        | 10.5   | 11.2   | 12.0   | 11.9   | 11.6   | 10.5   | 9.4    | 8.1    | 7.8    |
| 20.0                                                                                 |        |        | 8.6    | 9.4    | 9.2    | 9.3    | 8.3    | 7.4    | 6.1    | 5.9    |
| 22.0                                                                                 |        |        | 6.7    | 7.3    | 7.2    | 7.4    | 6.6    | 5.8    | 4.6    | 4.4    |
| 24.0                                                                                 |        |        |        | 5.8    | 5.6    | 5.8    | 5.3    | 4.4    | 3.3    |        |
| 26.0                                                                                 |        |        |        | 4.6    | 4.4    | 4.5    | 3.9    | 3.3    |        |        |
| 28.0                                                                                 |        |        |        | 3.8    | 3.3    | 3.4    | 2.9    |        |        |        |
| 30.0                                                                                 |        |        |        |        | 2.5    | 2.5    | 2.0    |        |        |        |
| 32.0                                                                                 |        |        |        |        | 1.9    | 1.8    |        |        |        |        |



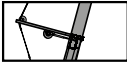
|  m | 15.0 m  | 20.1 m | 25.1 m | 30.2 m | 35.3 m | 40.4 m | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 3.0                                                                                | 200.0 * | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 3.5                                                                                | 195.4 * | 170.0  | 162.0  |        |        |        |        |        |        |        |
| 4.0                                                                                | 175.4 * | 170.0  | 162.0  | 139.0  |        |        |        |        |        |        |
| 4.5                                                                                | 150.6   | 124.7  | 112.7  | 98.4   |        |        |        |        |        |        |
| 5.0                                                                                | 119.8   | 106.1  | 93.8   | 81.2   | 69.8   |        |        |        |        |        |
| 6.0                                                                                | 80.8    | 73.4   | 66.9   | 61.7   | 55.9   | 51.4   |        |        |        |        |
| 7.0                                                                                | 58.0    | 54.4   | 51.0   | 48.0   | 44.2   | 41.1   | 37.4   |        |        |        |
| 8.0                                                                                | 44.2    | 42.5   | 40.5   | 38.8   | 36.1   | 33.9   | 31.0   | 28.0   |        |        |
| 9.0                                                                                | 35.0    | 34.4   | 33.2   | 32.2   | 30.0   | 28.1   | 25.5   | 23.1   | 20.4   |        |
| 10.0                                                                               | 28.0    | 28.0   | 27.3   | 26.7   | 24.8   | 23.5   | 21.3   | 19.3   | 17.0   | 16.2   |
| 11.0                                                                               | 22.1    | 22.9   | 22.6   | 22.4   | 20.9   | 19.9   | 18.0   | 16.3   | 14.2   | 13.6   |
| 12.0                                                                               | 17.3    | 19.0   | 19.0   | 19.0   | 17.8   | 17.0   | 15.4   | 13.8   | 12.0   | 11.5   |
| 14.0                                                                               |         | 12.9   | 13.9   | 14.1   | 13.3   | 12.7   | 11.4   | 10.1   | 8.6    | 8.2    |
| 16.0                                                                               |         | 8.9    | 9.8    | 10.7   | 10.1   | 9.6    | 8.5    | 7.5    | 6.1    | 5.8    |
| 18.0                                                                               |         | 6.3    | 7.0    | 7.9    | 7.7    | 7.4    | 6.4    | 5.4    |        |        |
| 20.0                                                                               |         |        | 5.0    | 5.8    | 5.7    | 5.6    | 4.7    | 3.8    |        |        |
| 22.0                                                                               |         |        | 3.6    | 4.2    | 4.0    | 4.2    | 3.4    |        |        |        |
| 24.0                                                                               |         |        |        | 3.0    | 2.8    | 2.9    |        |        |        |        |
| 26.0                                                                               |         |        |        | 2.0    | 1.8    | 1.9    |        |        |        |        |

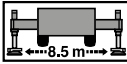
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



35.3 – 60 m





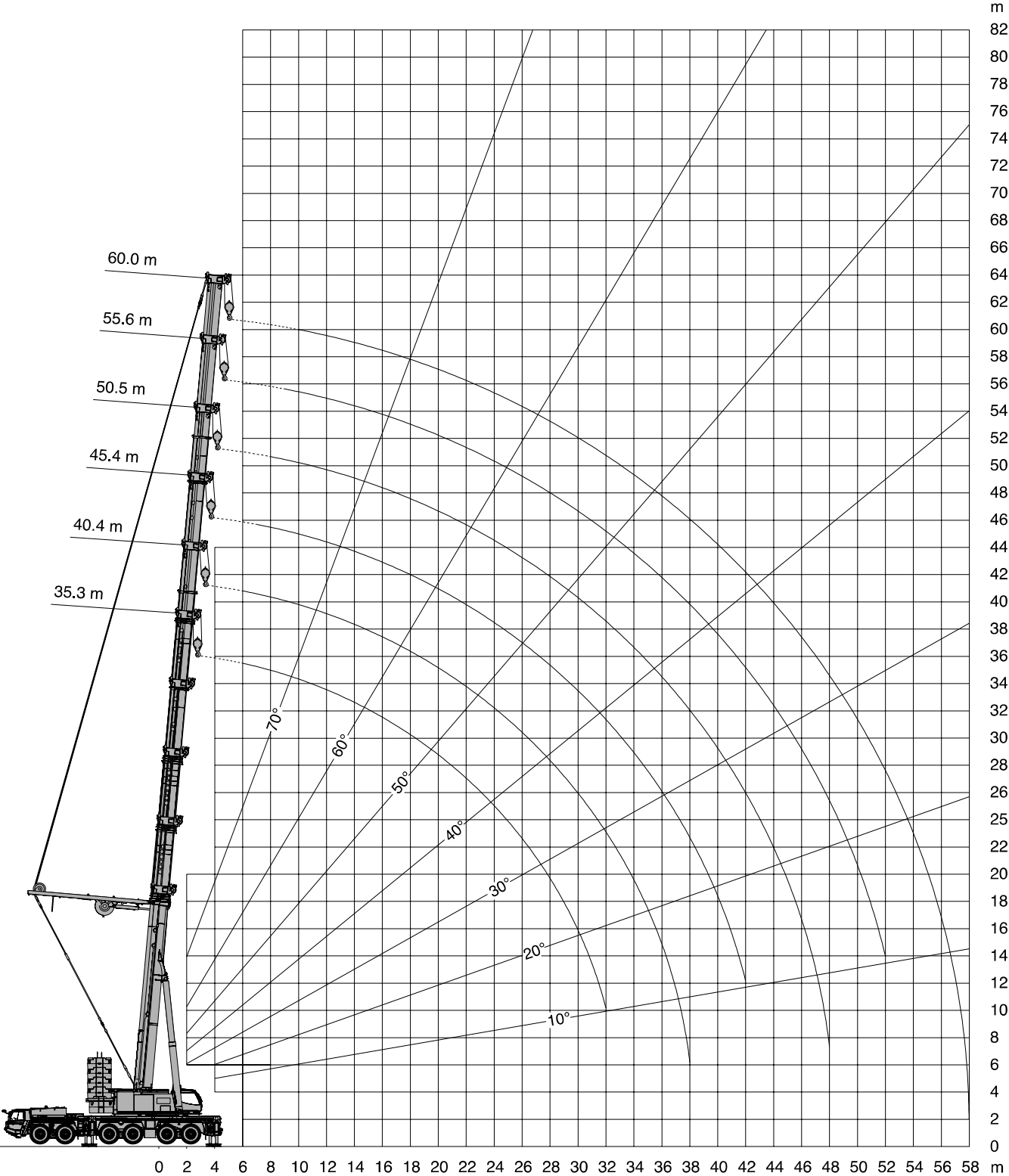
8.5 m



360°

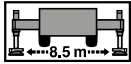
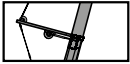
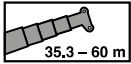
136 t

DIN/ISO/EN



Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

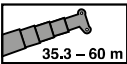


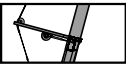
**136 t**

**DIN/ISO/EN**

| m    | 35.3 m | 40.4 m | 45.4m | 50.5 m | 55.6 m | 60.0 m |
|------|--------|--------|-------|--------|--------|--------|
| 6.0  | 118.0  | 84.2   |       |        |        |        |
| 7.0  | 118.0  | 84.2   | 68.0  |        |        |        |
| 8.0  | 116.3  | 84.2   | 68.0  | 58.0   |        |        |
| 9.0  | 105.5  | 84.2   | 68.0  | 58.0   | 45.0   |        |
| 10.0 | 96.4   | 84.2   | 68.0  | 58.0   | 45.0   | 36.0   |
| 11.0 | 88.7   | 84.2   | 68.0  | 58.0   | 45.0   | 36.0   |
| 12.0 | 82.1   | 81.6   | 68.0  | 58.0   | 44.8   | 36.0   |
| 14.0 | 71.2   | 70.9   | 68.0  | 58.0   | 44.4   | 35.1   |
| 16.0 | 62.6   | 62.5   | 62.2  | 52.3   | 44.0   | 34.0   |
| 18.0 | 55.5   | 55.6   | 55.4  | 50.4   | 43.7   | 33.4   |
| 20.0 | 49.5   | 49.9   | 49.8  | 48.4   | 41.3   | 33.0   |
| 22.0 | 44.2   | 45.0   | 45.1  | 45.2   | 37.7   | 32.7   |
| 24.0 | 39.4   | 40.7   | 41.0  | 41.2   | 34.9   | 32.4   |
| 26.0 | 34.9   | 36.8   | 37.4  | 37.8   | 33.6   | 31.3   |
| 28.0 | 30.5   | 33.2   | 34.1  | 34.7   | 32.5   | 29.1   |
| 30.0 | 25.6   | 29.8   | 31.1  | 31.9   | 31.3   | 27.4   |
| 32.0 | 19.2   | 26.4   | 28.3  | 29.4   | 29.9   | 26.6   |
| 34.0 |        | 22.7   | 25.6  | 27.1   | 27.8   | 25.8   |
| 36.0 |        | 18.4   | 22.9  | 24.8   | 25.6   | 25.1   |
| 38.0 |        | 11.3   | 20.1  | 22.7   | 23.6   | 23.6   |
| 40.0 |        |        | 16.9  | 20.5   | 21.7   | 21.8   |
| 42.0 |        |        | 12.6  | 18.3   | 20.1   | 20.2   |
| 44.0 |        |        |       | 15.9   | 18.5   | 18.7   |
| 46.0 |        |        |       | 12.9   | 16.6   | 17.3   |
| 48.0 |        |        |       | 8.3    | 14.7   | 16.0   |
| 50.0 |        |        |       |        | 12.4   | 14.5   |
| 52.0 |        |        |       |        | 9.5    | 12.8   |
| 54.0 |        |        |       |        |        | 10.8   |
| 56.0 |        |        |       |        |        | 8.4    |
| 58.0 |        |        |       |        |        | 3.7    |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

35.3 – 60 m





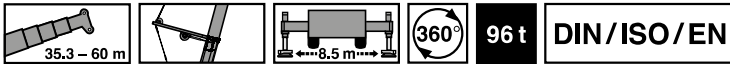
360°

116 t

DIN/ISO/EN

|  m | 35.3 m | 40.4 m | 45.4m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|-------|--------|--------|--------|
| 4.0                                                                                | 118.0  |        |       |        |        |        |
| 4.5                                                                                | 118.0  |        |       |        |        |        |
| 5.0                                                                                | 118.0  |        |       |        |        |        |
| 6.0                                                                                | 118.0  | 84.2   |       |        |        |        |
| 7.0                                                                                | 118.0  | 84.2   | 68.0  |        |        |        |
| 8.0                                                                                | 116.3  | 84.2   | 68.0  | 58.0   |        |        |
| 9.0                                                                                | 105.5  | 84.2   | 68.0  | 58.0   | 45.0   |        |
| 10.0                                                                               | 96.4   | 84.2   | 68.0  | 58.0   | 45.0   | 36.0   |
| 11.0                                                                               | 88.7   | 84.2   | 68.0  | 58.0   | 45.0   | 36.0   |
| 12.0                                                                               | 82.1   | 81.6   | 68.0  | 58.0   | 44.8   | 36.0   |
| 14.0                                                                               | 71.2   | 70.9   | 68.0  | 58.0   | 44.4   | 35.1   |
| 16.0                                                                               | 62.6   | 62.5   | 62.2  | 52.3   | 44.0   | 34.0   |
| 18.0                                                                               | 55.5   | 55.6   | 55.4  | 50.4   | 43.7   | 33.4   |
| 20.0                                                                               | 48.5   | 49.8   | 49.8  | 48.4   | 41.3   | 33.0   |
| 22.0                                                                               | 41.9   | 43.2   | 44.0  | 45.0   | 37.7   | 32.7   |
| 24.0                                                                               | 36.6   | 37.9   | 38.6  | 39.6   | 34.9   | 32.4   |
| 26.0                                                                               | 32.2   | 33.5   | 34.2  | 35.2   | 33.6   | 31.3   |
| 28.0                                                                               | 28.4   | 29.7   | 30.5  | 31.5   | 32.3   | 29.1   |
| 30.0                                                                               | 25.2   | 26.4   | 27.2  | 28.3   | 29.1   | 27.4   |
| 32.0                                                                               | 19.2   | 23.6   | 24.4  | 25.4   | 26.3   | 26.3   |
| 34.0                                                                               |        | 21.2   | 22.0  | 23.0   | 23.8   | 23.9   |
| 36.0                                                                               |        | 18.4   | 19.8  | 20.8   | 21.6   | 21.7   |
| 38.0                                                                               |        | 11.3   | 17.9  | 18.9   | 19.7   | 19.8   |
| 40.0                                                                               |        |        | 16.3  | 17.2   | 18.0   | 18.1   |
| 42.0                                                                               |        |        | 12.6  | 15.7   | 16.5   | 16.6   |
| 44.0                                                                               |        |        |       | 14.4   | 15.1   | 15.2   |
| 46.0                                                                               |        |        |       | 12.9   | 13.9   | 14.0   |
| 48.0                                                                               |        |        |       | 8.3    | 12.8   | 12.9   |
| 50.0                                                                               |        |        |       |        | 11.8   | 11.8   |
| 52.0                                                                               |        |        |       |        | 9.5    | 10.9   |
| 54.0                                                                               |        |        |       |        |        | 10.1   |
| 56.0                                                                               |        |        |       |        |        | 8.4    |
| 58.0                                                                               |        |        |       |        |        | 3.7    |

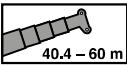




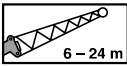
|  m | 35.3 m | 40.4 m | 45.4m | 50.5 m | 55.6 m | 60.0 m |
|------------------------------------------------------------------------------------|--------|--------|-------|--------|--------|--------|
| 4.0                                                                                | 118.0  |        |       |        |        |        |
| 4.5                                                                                | 118.0  |        |       |        |        |        |
| 5.0                                                                                | 118.0  |        |       |        |        |        |
| 6.0                                                                                | 118.0  | 84.2   |       |        |        |        |
| 7.0                                                                                | 118.0  | 84.2   | 68.0  |        |        |        |
| 8.0                                                                                | 116.3  | 84.2   | 68.0  | 58.0   |        |        |
| 9.0                                                                                | 105.5  | 84.2   | 68.0  | 58.0   | 45.0   |        |
| 10.0                                                                               | 96.4   | 84.2   | 68.0  | 58.0   | 45.0   | 36.0   |
| 11.0                                                                               | 88.7   | 84.2   | 68.0  | 58.0   | 45.0   | 36.0   |
| 12.0                                                                               | 82.1   | 81.6   | 68.0  | 58.0   | 44.8   | 36.0   |
| 14.0                                                                               | 70.2   | 69.8   | 68.0  | 58.0   | 44.4   | 35.1   |
| 16.0                                                                               | 58.2   | 58.9   | 58.1  | 52.3   | 44.0   | 34.0   |
| 18.0                                                                               | 48.6   | 49.9   | 50.1  | 49.9   | 43.7   | 33.4   |
| 20.0                                                                               | 41.2   | 42.5   | 43.3  | 43.8   | 41.3   | 33.0   |
| 22.0                                                                               | 35.3   | 36.7   | 37.5  | 38.5   | 37.7   | 32.7   |
| 24.0                                                                               | 30.4   | 31.8   | 32.6  | 33.7   | 34.5   | 32.4   |
| 26.0                                                                               | 26.4   | 27.7   | 28.6  | 29.6   | 30.5   | 30.6   |
| 28.0                                                                               | 23.0   | 24.3   | 25.2  | 26.2   | 27.1   | 27.1   |
| 30.0                                                                               | 20.2   | 21.4   | 22.3  | 23.3   | 24.1   | 24.2   |
| 32.0                                                                               | 17.8   | 19.0   | 19.8  | 20.8   | 21.7   | 21.7   |
| 34.0                                                                               |        | 16.8   | 17.7  | 18.7   | 19.5   | 19.6   |
| 36.0                                                                               |        | 15.0   | 15.8  | 16.8   | 17.6   | 17.7   |
| 38.0                                                                               |        | 11.3   | 14.1  | 15.1   | 15.9   | 16.0   |
| 40.0                                                                               |        |        | 12.7  | 13.6   | 14.4   | 14.5   |
| 42.0                                                                               |        |        | 11.4  | 12.3   | 13.1   | 13.2   |
| 44.0                                                                               |        |        |       | 11.1   | 11.9   | 12.0   |
| 46.0                                                                               |        |        |       | 10.1   | 10.8   | 10.9   |
| 48.0                                                                               |        |        |       | 8.3    | 9.8    | 9.9    |
| 50.0                                                                               |        |        |       |        | 8.9    | 9.0    |
| 52.0                                                                               |        |        |       |        | 8.1    | 8.2    |
| 54.0                                                                               |        |        |       |        |        | 7.5    |
| 56.0                                                                               |        |        |       |        |        | 6.8    |
| 58.0                                                                               |        |        |       |        |        | 3.7    |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

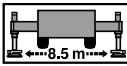
Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



40.4 – 60 m



6 – 24 m



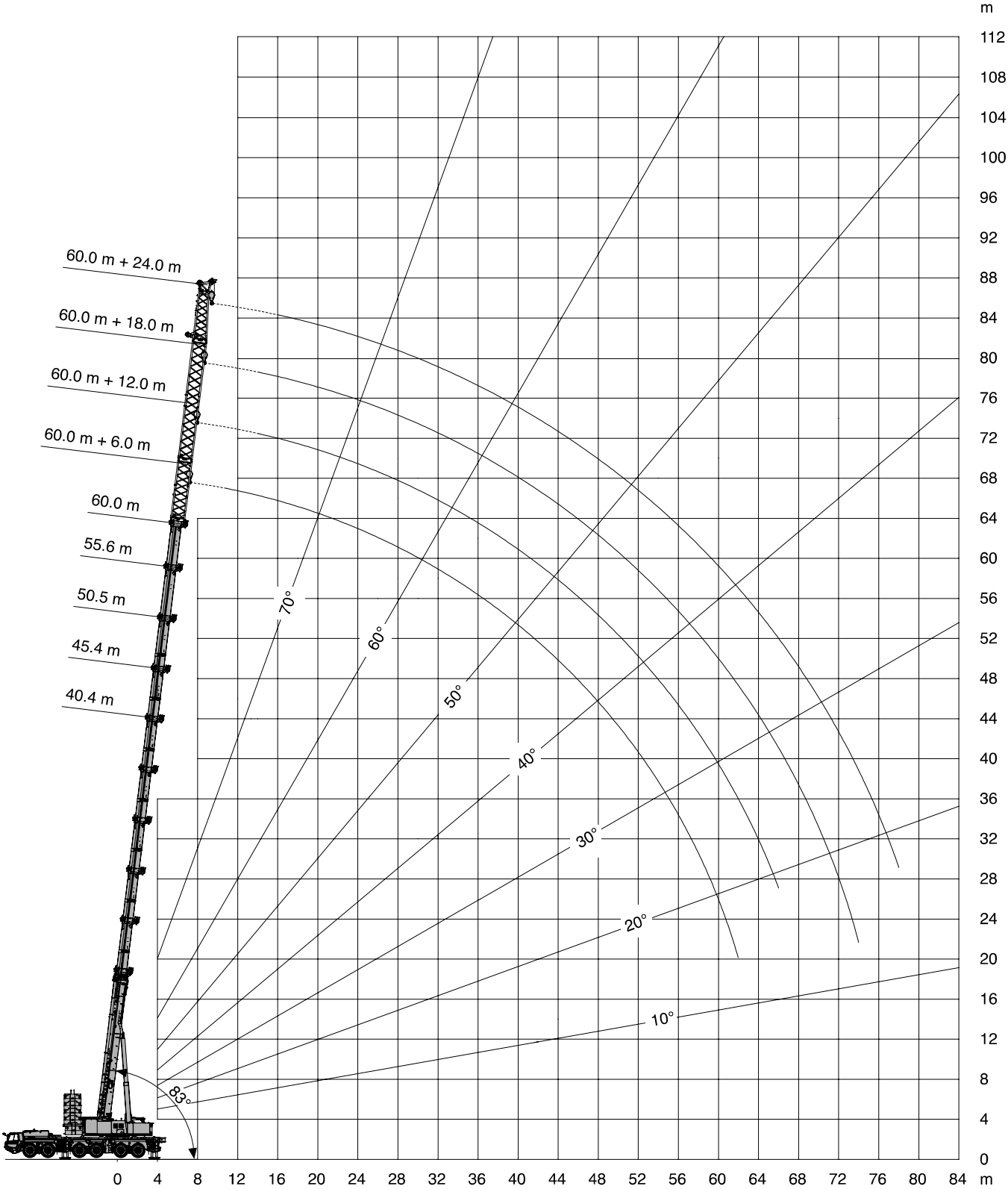
8.5 m



360°

136 t

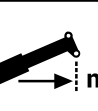
DIN/ISO/EN



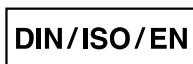
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

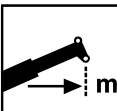
Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

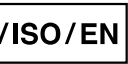


|  | 40.4 m  | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|-----------------------------------------------------------------------------------|---------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|
|                                                                                   | + 6.0 m |        |        |        |        | + 12.0 m |        |        |        |        | + 18.0 m |        |        |        |        | + 24.0 m |        |        |        |        |
|                                                                                   |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 7.0                                                                               | 58.6    |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 8.0                                                                               | 58.6    | 58.6   |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 9.0                                                                               | 58.6    | 58.6   | 45.6   |        |        | 52.3     |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 10.0                                                                              | 58.6    | 57.7   | 45.6   | 35.9   |        | 50.0     | 42.4   | 33.7   |        |        | 34.3     |        |        |        |        |          |        |        |        |        |
| 11.0                                                                              | 58.6    | 54.0   | 44.6   | 35.9   | 30.7   | 47.9     | 42.4   | 33.7   |        |        | 32.8     | 30.9   |        |        |        |          | 24.6   |        |        |        |
| 12.0                                                                              | 57.0    | 50.7   | 42.1   | 35.9   | 30.7   | 45.9     | 42.4   | 33.7   | 27.1   |        | 31.4     | 30.3   | 25.1   |        |        | 23.8     | 22.6   |        |        |        |
| 14.0                                                                              | 50.8    | 45.2   | 37.9   | 33.0   | 30.7   | 42.5     | 40.6   | 32.4   | 27.1   | 23.5   | 29.0     | 28.2   | 25.1   | 20.5   | 18.0   | 22.2     | 21.4   | 18.8   |        |        |
| 16.0                                                                              | 45.9    | 40.8   | 34.5   | 30.0   | 29.0   | 39.5     | 36.7   | 29.4   | 26.5   | 23.5   | 26.9     | 26.4   | 25.1   | 20.5   | 18.0   | 20.8     | 20.2   | 18.8   | 15.6   | 13.9   |
| 18.0                                                                              | 41.6    | 37.0   | 31.6   | 27.4   | 26.6   | 36.6     | 33.4   | 26.9   | 24.3   | 23.4   | 25.0     | 24.8   | 23.9   | 20.5   | 18.0   | 19.5     | 19.1   | 18.2   | 15.6   | 13.9   |
| 20.0                                                                              | 37.5    | 33.9   | 29.1   | 25.3   | 24.5   | 33.6     | 30.6   | 24.8   | 22.3   | 21.6   | 23.4     | 23.3   | 22.1   | 20.0   | 18.0   | 18.2     | 18.1   | 17.3   | 15.6   | 13.9   |
| 22.0                                                                              | 34.1    | 31.3   | 27.0   | 23.4   | 22.7   | 31.0     | 28.2   | 23.0   | 20.7   | 20.0   | 22.0     | 22.0   | 20.5   | 18.5   | 17.9   | 17.1     | 17.0   | 16.6   | 15.6   | 13.9   |
| 24.0                                                                              | 31.2    | 29.0   | 25.2   | 21.8   | 21.2   | 28.8     | 26.1   | 21.4   | 19.2   | 18.3   | 20.7     | 20.8   | 19.0   | 17.2   | 16.4   | 16.1     | 16.1   | 15.8   | 15.2   | 13.9   |
| 26.0                                                                              | 28.8    | 27.0   | 23.6   | 20.4   | 19.5   | 26.8     | 24.3   | 20.0   | 17.9   | 16.8   | 19.6     | 19.7   | 17.8   | 16.1   | 15.0   | 15.2     | 15.3   | 15.0   | 14.5   | 13.4   |
| 28.0                                                                              | 26.6    | 25.3   | 22.1   | 19.1   | 18.0   | 25.1     | 22.7   | 18.8   | 16.8   | 15.6   | 18.6     | 18.8   | 16.7   | 15.1   | 13.8   | 14.4     | 14.5   | 14.3   | 13.6   | 12.3   |
| 30.0                                                                              | 24.7    | 23.7   | 20.9   | 18.0   | 16.7   | 23.6     | 21.3   | 17.7   | 15.8   | 14.4   | 17.6     | 17.9   | 15.7   | 14.2   | 12.8   | 13.6     | 13.8   | 13.7   | 12.8   | 11.3   |
| 32.0                                                                              | 23.0    | 22.3   | 19.8   | 17.0   | 15.6   | 22.2     | 20.1   | 16.7   | 14.9   | 13.4   | 16.8     | 17.1   | 14.8   | 13.4   | 11.9   | 13.0     | 13.2   | 13.1   | 12.0   | 10.5   |
| 34.0                                                                              | 21.5    | 21.0   | 18.8   | 16.1   | 14.6   | 21.0     | 18.9   | 15.8   | 14.1   | 12.5   | 16.1     | 16.4   | 14.0   | 12.6   | 11.1   | 12.3     | 12.6   | 12.4   | 11.3   | 9.7    |
| 36.0                                                                              | 20.1    | 19.6   | 17.8   | 15.3   | 13.7   | 19.6     | 17.9   | 15.0   | 13.4   | 11.7   | 15.4     | 15.7   | 13.3   | 12.0   | 10.3   | 11.8     | 12.0   | 11.8   | 10.7   | 9.0    |
| 38.0                                                                              | 18.9    | 18.4   | 17.0   | 14.6   | 12.8   | 18.5     | 17.0   | 14.3   | 12.7   | 10.9   | 14.7     | 15.1   | 12.6   | 11.3   | 9.6    | 11.3     | 11.5   | 11.2   | 10.2   | 8.4    |
| 40.0                                                                              | 17.8    | 17.4   | 16.3   | 13.9   | 12.1   | 17.4     | 16.2   | 13.6   | 12.1   | 10.3   | 14.2     | 14.6   | 12.0   | 10.8   | 9.0    | 10.8     | 11.1   | 10.6   | 9.7    | 7.8    |
| 42.0                                                                              | 16.0    | 16.4   | 15.6   | 13.3   | 11.4   | 16.4     | 15.4   | 13.0   | 11.6   | 9.7    | 13.7     | 14.0   | 11.5   | 10.3   | 8.5    | 10.4     | 10.7   | 10.1   | 9.2    | 7.3    |
| 44.0                                                                              | 10.9    | 15.5   | 15.0   | 12.7   | 10.8   | 15.5     | 14.7   | 12.5   | 11.0   | 9.1    | 13.2     | 13.4   | 11.0   | 9.8    | 8.0    | 10.0     | 10.3   | 9.7    | 8.7    | 6.9    |
| 46.0                                                                              |         | 14.7   | 14.3   | 12.2   | 10.2   | 14.7     | 14.1   | 12.0   | 10.6   | 8.6    | 12.7     | 12.8   | 10.5   | 9.4    | 7.5    | 9.6      | 9.9    | 9.2    | 8.3    | 6.4    |
| 48.0                                                                              |         | 11.6   | 13.7   | 11.8   | 9.7    | 12.9     | 13.5   | 11.5   | 10.1   | 8.2    | 12.4     | 12.3   | 10.1   | 9.0    | 7.1    | 9.3      | 9.6    | 8.8    | 8.0    | 6.0    |
| 50.0                                                                              |         |        | 13.0   | 11.3   | 9.2    | 8.7      | 12.6   | 11.1   | 9.7    | 7.7    | 12.0     | 11.8   | 9.7    | 8.6    | 6.7    | 9.0      | 9.3    | 8.5    | 7.6    | 5.7    |
| 54.0                                                                              |         |        | 7.8    | 10.6   | 8.3    |          | 9.3    | 10.3   | 9.0    | 7.0    | 10.5     | 10.9   | 9.0    | 7.9    | 6.0    | 8.4      | 8.7    | 7.8    | 7.0    | 5.0    |
| 58.0                                                                              |         |        |        | 8.6    | 7.4    |          |        | 9.2    | 8.4    | 6.3    |          | 9.8    | 8.4    | 7.4    | 5.4    | 8.0      | 8.2    | 7.2    | 6.5    | 4.4    |
| 62.0                                                                              |         |        |        |        | 6.5    |          |        |        | 7.9    | 5.7    |          |        | 7.9    | 6.9    | 4.8    | 5.1      | 7.8    | 6.8    | 5.9    | 3.9    |
| 66.0                                                                              |         |        |        |        |        |          |        |        |        | 5.2    |          |        |        | 5.0    | 6.4    | 4.4      |        | 6.3    | 5.4    | 3.5    |
| 70.0                                                                              |         |        |        |        |        |          |        |        |        |        |          |        |        |        | 5.6    | 4.0      |        | 6.0    | 5.0    | 3.1    |
| 74.0                                                                              |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        | 3.7      |        |        | 4.6    | 2.8    |
| 78.0                                                                              |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        | 2.5    |

Uso · Эксплуатация



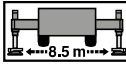
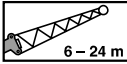
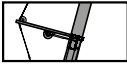
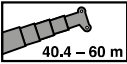
|  | 40.4 m  | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|----------------------------------------------------------------------------------|---------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|
|                                                                                  | + 6.0 m |        |        |        |        | + 12.0 m |        |        |        |        | + 18.0 m |        |        |        |        | + 24.0 m |        |        |        |        |
| 7.0                                                                              | 58.6    |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 8.0                                                                              | 58.6    | 58.6   |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 9.0                                                                              | 58.6    | 58.6   | 45.6   |        |        | 52.3     |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 10.0                                                                             | 58.6    | 57.7   | 45.6   | 35.9   |        | 50.0     | 42.4   | 33.7   |        |        | 34.3     |        |        |        |        |          |        |        |        |        |
| 11.0                                                                             | 58.6    | 54.0   | 44.6   | 35.9   | 30.7   | 47.9     | 42.4   | 33.7   |        |        | 32.8     | 30.9   |        |        |        | 24.6     |        |        |        |        |
| 12.0                                                                             | 57.0    | 50.7   | 42.1   | 35.9   | 30.7   | 45.9     | 42.4   | 33.7   | 27.1   |        | 31.4     | 30.3   | 25.1   |        |        | 23.8     | 22.6   |        |        |        |
| 14.0                                                                             | 50.8    | 45.2   | 37.9   | 33.0   | 30.7   | 42.5     | 40.6   | 32.4   | 27.1   | 23.5   | 29.0     | 28.2   | 25.1   | 20.5   | 18.0   | 22.2     | 21.4   | 18.8   |        |        |
| 16.0                                                                             | 45.9    | 40.8   | 34.5   | 30.0   | 29.0   | 39.5     | 36.7   | 29.4   | 26.5   | 23.5   | 26.9     | 26.4   | 25.1   | 20.5   | 18.0   | 20.8     | 20.2   | 18.8   | 15.6   | 13.9   |
| 18.0                                                                             | 41.6    | 37.0   | 31.6   | 27.4   | 26.6   | 36.6     | 33.4   | 26.9   | 24.3   | 23.4   | 25.0     | 24.8   | 23.9   | 20.5   | 18.0   | 19.5     | 19.1   | 18.2   | 15.6   | 13.9   |
| 20.0                                                                             | 37.5    | 33.9   | 29.1   | 25.3   | 24.5   | 33.6     | 30.6   | 24.8   | 22.3   | 21.6   | 23.4     | 23.3   | 22.1   | 20.0   | 18.0   | 18.2     | 18.1   | 17.3   | 15.6   | 13.9   |
| 22.0                                                                             | 34.1    | 31.3   | 27.0   | 23.4   | 22.7   | 31.0     | 28.2   | 23.0   | 20.7   | 20.0   | 22.0     | 22.0   | 20.5   | 18.5   | 17.9   | 17.1     | 17.0   | 16.6   | 15.6   | 13.9   |
| 24.0                                                                             | 31.2    | 29.0   | 25.2   | 21.8   | 21.2   | 28.8     | 26.1   | 21.4   | 19.2   | 18.3   | 20.7     | 20.8   | 19.0   | 17.2   | 16.4   | 16.1     | 16.1   | 15.8   | 15.2   | 13.9   |
| 26.0                                                                             | 28.8    | 27.0   | 23.6   | 20.4   | 19.5   | 26.8     | 24.3   | 20.0   | 17.9   | 16.8   | 19.6     | 19.7   | 17.8   | 16.1   | 15.0   | 15.2     | 15.3   | 15.0   | 14.5   | 13.4   |
| 28.0                                                                             | 26.6    | 25.3   | 22.1   | 19.1   | 18.0   | 25.1     | 22.7   | 18.8   | 16.8   | 15.6   | 18.6     | 18.8   | 16.7   | 15.1   | 13.8   | 14.4     | 14.5   | 14.3   | 13.6   | 12.3   |
| 30.0                                                                             | 24.7    | 23.7   | 20.9   | 18.0   | 16.7   | 23.6     | 21.3   | 17.7   | 15.8   | 14.4   | 17.6     | 17.9   | 15.7   | 14.2   | 12.8   | 13.6     | 13.8   | 13.7   | 12.8   | 11.3   |
| 32.0                                                                             | 23.0    | 22.3   | 19.8   | 17.0   | 15.6   | 22.2     | 20.1   | 16.7   | 14.9   | 13.4   | 16.8     | 17.1   | 14.8   | 13.4   | 11.9   | 13.0     | 13.2   | 13.1   | 12.0   | 10.5   |
| 34.0                                                                             | 21.5    | 21.0   | 18.8   | 16.1   | 14.6   | 21.0     | 18.9   | 15.8   | 14.1   | 12.5   | 16.1     | 16.4   | 14.0   | 12.6   | 11.1   | 12.3     | 12.6   | 12.4   | 11.3   | 9.7    |
| 36.0                                                                             | 20.1    | 19.6   | 17.8   | 15.3   | 13.7   | 19.6     | 17.9   | 15.0   | 13.4   | 11.7   | 15.4     | 15.7   | 13.3   | 12.0   | 10.3   | 11.8     | 12.0   | 11.8   | 10.7   | 9.0    |
| 38.0                                                                             | 18.9    | 18.4   | 17.0   | 14.6   | 12.8   | 18.5     | 17.0   | 14.3   | 12.7   | 10.9   | 14.7     | 15.1   | 12.6   | 11.3   | 9.6    | 11.3     | 11.5   | 11.2   | 10.2   | 8.4    |
| 40.0                                                                             | 17.4    | 17.4   | 16.3   | 13.9   | 12.1   | 17.4     | 16.2   | 13.6   | 12.1   | 10.3   | 14.2     | 14.6   | 12.0   | 10.8   | 9.0    | 10.8     | 11.1   | 10.6   | 9.7    | 7.8    |
| 42.0                                                                             | 16.0    | 16.3   | 15.6   | 13.3   | 11.4   | 16.4     | 15.4   | 13.0   | 11.6   | 9.7    | 13.7     | 14.0   | 11.5   | 10.3   | 8.5    | 10.4     | 10.7   | 10.1   | 9.2    | 7.3    |
| 44.0                                                                             | 10.9    | 15.0   | 15.0   | 12.7   | 10.8   | 15.2     | 14.7   | 12.5   | 11.0   | 9.1    | 13.2     | 13.4   | 11.0   | 9.8    | 8.0    | 10.0     | 10.3   | 9.7    | 8.7    | 6.9    |
| 46.0                                                                             |         | 13.9   | 14.3   | 12.2   | 10.2   | 14.0     | 14.1   | 12.0   | 10.6   | 8.6    | 12.7     | 12.8   | 10.5   | 9.4    | 7.5    | 9.6      | 9.9    | 9.2    | 8.3    | 6.4    |
| 48.0                                                                             |         | 11.6   | 13.3   | 11.8   | 9.7    | 12.9     | 13.1   | 11.5   | 10.1   | 8.2    | 12.4     | 12.3   | 10.1   | 9.0    | 7.1    | 9.3      | 9.6    | 8.8    | 8.0    | 6.0    |
| 50.0                                                                             |         |        | 12.4   | 11.3   | 9.2    | 8.7      | 12.2   | 11.1   | 9.7    | 7.7    | 12.0     | 11.8   | 9.7    | 8.6    | 6.7    | 9.0      | 9.3    | 8.5    | 7.6    | 5.7    |
| 54.0                                                                             |         |        | 7.8    | 10.6   | 8.3    |          | 9.3    | 10.3   | 9.0    | 7.0    | 10.5     | 10.8   | 9.0    | 7.9    | 6.0    | 8.4      | 8.7    | 7.8    | 7.0    | 5.0    |
| 58.0                                                                             |         |        |        | 8.6    | 7.4    |          |        | 9.2    | 8.4    | 6.3    |          | 9.3    | 8.4    | 7.4    | 5.4    | 8.0      | 8.2    | 7.2    | 6.5    | 4.4    |
| 62.0                                                                             |         |        |        |        | 6.5    |          |        |        | 7.9    | 5.7    |          |        | 7.9    | 6.9    | 4.8    | 5.1      | 7.8    | 6.8    | 5.9    | 3.9    |
| 66.0                                                                             |         |        |        |        |        |          |        |        |        | 5.2    |          |        | 5.0    | 6.4    | 4.4    |          | 5.8    | 6.3    | 5.4    | 3.5    |
| 70.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        | 5.6    | 4.0    |          |        | 6.0    | 5.0    | 3.1    |
| 74.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        |        | 3.7    |          |        |        | 4.6    | 2.8    |
| 78.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        | 2.5    |



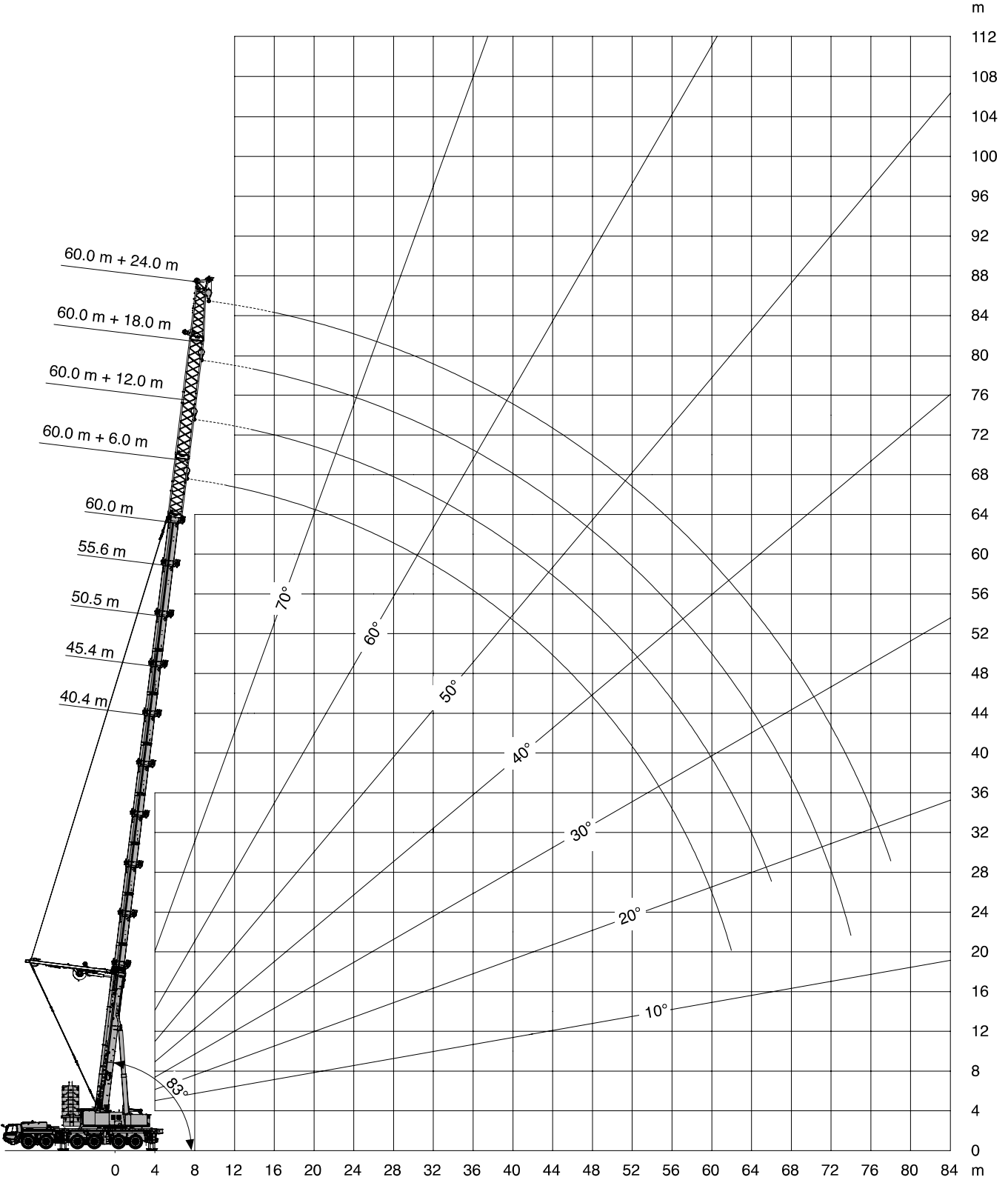
|  | 40.4 m  | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|-----------------------------------------------------------------------------------|---------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|
|                                                                                   | + 6.0 m |        |        |        |        | + 12.0 m |        |        |        |        | + 18.0 m |        |        |        |        | + 24.0 m |        |        |        |        |
| 7.0                                                                               | 54.2    |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 8.0                                                                               | 50.7    | 43.2   |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 9.0                                                                               | 47.6    | 40.8   | 32.2   |        |        | 43.5     |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 10.0                                                                              | 44.9    | 38.6   | 30.5   | 26.8   |        | 41.0     | 34.9   | 27.5   |        |        |          |        |        |        |        |          |        |        |        |        |
| 11.0                                                                              | 42.5    | 36.8   | 29.0   | 25.5   | 24.2   | 38.8     | 33.1   | 26.1   |        |        | 34.3     |        |        |        |        |          |        |        |        |        |
| 12.0                                                                              | 40.4    | 35.1   | 27.6   | 24.2   | 23.0   | 36.8     | 31.5   | 24.8   | 22.1   |        | 32.8     | 30.2   |        |        |        | 24.6     |        |        |        |        |
| 14.0                                                                              | 36.8    | 32.2   | 25.2   | 22.1   | 21.0   | 33.4     | 28.8   | 22.6   | 20.3   | 19.1   | 29.0     | 26.2   | 20.9   | 18.2   | 17.3   | 22.2     | 21.4   | 18.8   |        |        |
| 16.0                                                                              | 33.8    | 29.7   | 23.3   | 20.4   | 19.3   | 30.6     | 26.5   | 20.8   | 18.7   | 17.6   | 26.9     | 24.1   | 19.2   | 16.8   | 16.0   | 20.8     | 20.2   | 17.3   | 15.2   | 13.9   |
| 18.0                                                                              | 31.3    | 27.5   | 21.7   | 18.9   | 18.0   | 28.2     | 24.6   | 19.3   | 17.3   | 16.3   | 25.0     | 22.3   | 17.8   | 15.7   | 14.9   | 19.5     | 19.1   | 16.1   | 14.1   | 13.4   |
| 20.0                                                                              | 29.2    | 25.5   | 20.3   | 17.7   | 16.8   | 26.2     | 23.0   | 18.0   | 16.1   | 15.2   | 23.4     | 20.8   | 16.5   | 14.6   | 13.9   | 18.2     | 18.1   | 15.0   | 13.1   | 12.5   |
| 22.0                                                                              | 27.4    | 23.9   | 19.1   | 16.6   | 15.7   | 24.5     | 21.6   | 16.8   | 15.0   | 14.2   | 22.0     | 19.5   | 15.4   | 13.7   | 13.1   | 17.1     | 17.0   | 14.1   | 12.3   | 11.7   |
| 24.0                                                                              | 25.8    | 22.4   | 18.0   | 15.6   | 14.8   | 23.0     | 20.4   | 15.9   | 14.1   | 13.3   | 20.7     | 18.3   | 14.5   | 12.9   | 12.3   | 16.1     | 16.1   | 13.2   | 11.6   | 11.0   |
| 26.0                                                                              | 24.4    | 21.2   | 17.1   | 14.8   | 14.0   | 21.7     | 19.3   | 15.0   | 13.3   | 12.6   | 19.6     | 17.3   | 13.6   | 12.2   | 11.5   | 15.2     | 15.3   | 12.4   | 10.9   | 10.4   |
| 28.0                                                                              | 22.9    | 20.0   | 16.2   | 14.0   | 13.3   | 20.5     | 18.2   | 14.2   | 12.6   | 11.9   | 18.6     | 16.4   | 12.9   | 11.5   | 10.9   | 14.4     | 14.5   | 11.7   | 10.3   | 9.9    |
| 30.0                                                                              | 21.5    | 19.0   | 15.5   | 13.4   | 12.6   | 19.5     | 17.3   | 13.5   | 12.0   | 11.3   | 17.6     | 15.6   | 12.2   | 10.9   | 10.3   | 13.6     | 13.8   | 11.0   | 9.8    | 9.4    |
| 32.0                                                                              | 20.3    | 18.2   | 14.8   | 12.8   | 12.1   | 18.6     | 16.4   | 12.9   | 11.4   | 10.7   | 16.8     | 14.8   | 11.6   | 10.3   | 9.8    | 13.0     | 13.2   | 10.5   | 9.3    | 8.9    |
| 34.0                                                                              | 18.5    | 17.3   | 14.3   | 12.2   | 11.5   | 17.7     | 15.6   | 12.3   | 10.9   | 10.2   | 16.1     | 14.2   | 11.1   | 9.8    | 9.3    | 12.3     | 12.6   | 9.9    | 8.9    | 8.4    |
| 36.0                                                                              | 16.8    | 16.6   | 13.7   | 11.7   | 11.1   | 17.0     | 14.9   | 11.8   | 10.4   | 9.8    | 15.4     | 13.6   | 10.6   | 9.4    | 8.9    | 11.8     | 12.0   | 9.5    | 8.4    | 8.0    |
| 38.0                                                                              | 15.2    | 15.5   | 13.2   | 11.3   | 10.6   | 15.7     | 14.3   | 11.3   | 9.9    | 9.4    | 14.7     | 13.0   | 10.1   | 8.9    | 8.5    | 11.3     | 11.5   | 9.0    | 8.0    | 7.6    |
| 40.0                                                                              | 13.8    | 14.1   | 12.8   | 10.9   | 10.2   | 14.3     | 13.7   | 10.9   | 9.5    | 9.0    | 14.1     | 12.5   | 9.7    | 8.6    | 8.1    | 10.8     | 11.1   | 8.6    | 7.7    | 7.3    |
| 42.0                                                                              | 12.6    | 12.9   | 12.4   | 10.5   | 9.9    | 13.1     | 13.2   | 10.5   | 9.2    | 8.6    | 13.6     | 12.0   | 9.3    | 8.2    | 7.8    | 10.4     | 10.7   | 8.3    | 7.3    | 6.9    |
| 44.0                                                                              | 10.9    | 11.8   | 12.1   | 10.2   | 9.5    | 11.9     | 12.1   | 10.2   | 8.8    | 8.3    | 12.4     | 11.5   | 9.0    | 7.9    | 7.5    | 10.0     | 10.3   | 7.9    | 7.0    | 6.6    |
| 46.0                                                                              |         | 10.8   | 11.3   | 9.8    | 9.2    | 10.9     | 11.1   | 9.8    | 8.5    | 8.0    | 11.4     | 11.1   | 8.7    | 7.6    | 7.2    | 9.6      | 9.9    | 7.6    | 6.7    | 6.4    |
| 48.0                                                                              |         | 9.9    | 10.4   | 9.6    | 9.0    | 10.0     | 10.2   | 9.6    | 8.3    | 7.7    | 10.5     | 10.5   | 8.4    | 7.3    | 6.9    | 9.3      | 9.6    | 7.3    | 6.5    | 6.0    |
| 50.0                                                                              |         |        | 9.6    | 9.3    | 8.7    | 8.7      | 9.3    | 9.3    | 8.0    | 7.5    | 9.6      | 9.7    | 8.1    | 7.1    | 6.7    | 9.0      | 9.3    | 7.1    | 6.2    | 5.7    |
| 54.0                                                                              |         |        | 7.8    | 8.5    | 8.3    |          | 7.9    | 8.2    | 7.5    | 7.0    | 8.2      | 8.2    | 7.6    | 6.6    | 6.0    | 8.3      | 8.3    | 6.6    | 5.8    | 5.0    |
| 58.0                                                                              |         |        |        | 7.2    | 7.2    |          |        | 7.0    | 7.2    | 6.3    |          | 6.9    | 7.2    | 6.2    | 5.4    | 7.0      | 7.0    | 6.2    | 5.4    | 4.4    |
| 62.0                                                                              |         |        |        |        | 6.1    |          |        |        | 6.2    | 5.7    |          |        | 6.1    | 5.9    | 4.8    | 5.1      | 5.9    | 5.9    | 5.0    | 3.9    |
| 66.0                                                                              |         |        |        |        |        |          |        |        |        | 5.1    |          |        | 5.0    | 5.4    | 4.4    |          | 5.0    | 5.1    | 4.7    | 3.5    |
| 70.0                                                                              |         |        |        |        |        |          |        |        |        |        |          |        |        | 4.6    | 4.0    |          |        | 4.3    | 4.3    | 3.1    |
| 74.0                                                                              |         |        |        |        |        |          |        |        |        |        |          |        |        |        | 3.7    |          |        |        | 3.7    | 2.8    |
| 78.0                                                                              |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        | 2.5    |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



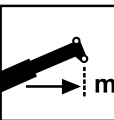
**136 t** **DIN/ISO/EN**



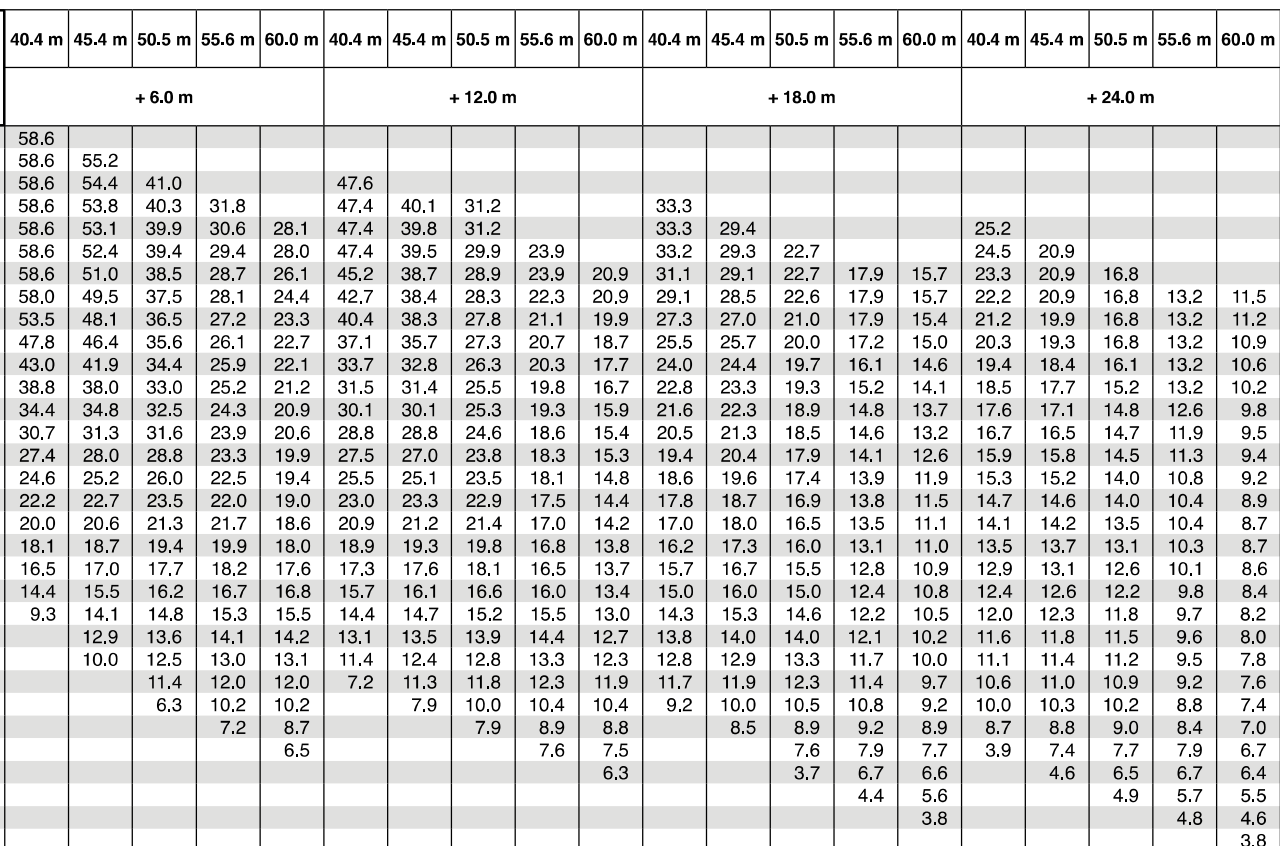
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

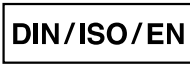


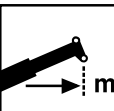
|  | 40.4 m  | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m |     |     |
|----------------------------------------------------------------------------------|---------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|-----|-----|
|                                                                                  | + 6.0 m |        |        |        |        | + 12.0 m |        |        |        |        | + 18.0 m |        |        |        |        | + 24.0 m |        |        |        |        |     |     |
| 7.0                                                                              | 58.6    |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |     |     |
| 8.0                                                                              | 58.6    | 55.2   |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |     |     |
| 9.0                                                                              | 58.6    | 54.4   | 41.0   |        |        | 47.6     |        |        |        |        |          |        |        |        |        |          |        |        |        |        |     |     |
| 10.0                                                                             | 58.6    | 53.8   | 40.3   | 31.8   |        | 47.4     | 40.1   | 31.2   |        |        | 33.3     |        |        |        |        |          |        |        |        |        |     |     |
| 11.0                                                                             | 58.6    | 53.1   | 39.9   | 30.6   | 28.1   | 47.4     | 39.8   | 31.2   |        |        | 33.3     | 29.4   |        |        |        | 25.2     |        |        |        |        |     |     |
| 12.0                                                                             | 58.6    | 52.4   | 39.4   | 29.4   | 28.0   | 47.4     | 39.5   | 29.9   | 23.9   |        | 33.2     | 29.3   | 22.7   |        |        | 24.5     | 20.9   |        |        |        |     |     |
| 14.0                                                                             | 58.6    | 51.0   | 38.5   | 28.7   | 26.1   | 45.2     | 38.7   | 28.9   | 23.9   | 20.9   | 31.1     | 29.1   | 22.7   | 17.9   | 15.7   | 23.3     | 20.9   | 16.8   |        |        |     |     |
| 16.0                                                                             | 58.0    | 49.5   | 37.5   | 28.1   | 24.4   | 42.7     | 38.4   | 28.3   | 22.3   | 20.9   | 29.1     | 28.5   | 22.6   | 17.9   | 15.7   | 22.2     | 20.9   | 16.8   | 13.2   | 11.5   |     |     |
| 18.0                                                                             | 53.5    | 48.1   | 36.5   | 27.2   | 23.3   | 40.4     | 38.3   | 27.8   | 21.1   | 19.9   | 27.3     | 27.0   | 21.0   | 17.9   | 15.4   | 21.2     | 19.9   | 16.8   | 13.2   | 11.2   |     |     |
| 20.0                                                                             | 47.8    | 46.4   | 35.6   | 26.1   | 22.7   | 37.1     | 35.7   | 27.3   | 20.7   | 18.7   | 25.5     | 25.7   | 20.0   | 17.2   | 15.0   | 20.3     | 19.3   | 16.8   | 13.2   | 10.9   |     |     |
| 22.0                                                                             | 43.0    | 41.9   | 34.4   | 25.9   | 22.1   | 33.7     | 32.8   | 26.3   | 20.3   | 17.7   | 24.0     | 24.4   | 19.7   | 16.1   | 14.6   | 19.4     | 18.4   | 16.1   | 13.2   | 10.6   |     |     |
| 24.0                                                                             | 39.1    | 38.0   | 33.0   | 25.2   | 21.2   | 31.5     | 31.4   | 25.5   | 19.8   | 16.7   | 22.8     | 23.3   | 19.3   | 15.2   | 14.1   | 18.5     | 17.7   | 15.2   | 13.2   | 10.2   |     |     |
| 26.0                                                                             | 35.8    | 34.8   | 32.5   | 24.3   | 20.9   | 30.1     | 30.1   | 25.3   | 19.3   | 15.9   | 21.6     | 22.3   | 18.9   | 14.8   | 13.7   | 17.6     | 17.1   | 14.8   | 12.6   | 9.8    |     |     |
| 28.0                                                                             | 32.9    | 32.0   | 31.6   | 23.9   | 20.6   | 28.8     | 28.8   | 24.6   | 18.6   | 15.4   | 20.5     | 21.3   | 18.5   | 14.6   | 13.2   | 16.7     | 16.5   | 14.7   | 11.9   | 9.5    |     |     |
| 30.0                                                                             | 30.3    | 29.4   | 29.1   | 23.3   | 19.9   | 27.5     | 27.0   | 23.8   | 18.3   | 15.3   | 19.4     | 20.4   | 17.9   | 14.1   | 12.6   | 15.9     | 15.8   | 14.5   | 11.3   | 9.4    |     |     |
| 32.0                                                                             | 28.0    | 27.4   | 27.1   | 22.5   | 19.4   | 25.8     | 25.1   | 23.5   | 18.1   | 14.8   | 18.6     | 19.6   | 17.4   | 13.9   | 11.9   | 15.3     | 15.2   | 14.0   | 10.8   | 9.2    |     |     |
| 34.0                                                                             | 26.0    | 25.5   | 25.2   | 22.0   | 19.0   | 24.0     | 23.3   | 22.9   | 17.5   | 14.4   | 17.8     | 18.7   | 16.9   | 13.8   | 11.5   | 14.7     | 14.6   | 14.0   | 10.4   | 8.9    |     |     |
| 36.0                                                                             | 23.4    | 23.7   | 23.4   | 21.7   | 18.6   | 22.3     | 21.8   | 21.4   | 17.0   | 14.2   | 17.0     | 18.0   | 16.5   | 13.5   | 11.1   | 14.1     | 14.2   | 13.5   | 10.4   | 8.7    |     |     |
| 38.0                                                                             | 20.7    | 22.3   | 22.0   | 21.0   | 18.0   | 20.8     | 20.4   | 20.0   | 16.8   | 13.8   | 16.2     | 17.3   | 16.0   | 13.1   | 11.0   | 13.5     | 13.7   | 13.1   | 10.3   | 8.7    |     |     |
| 40.0                                                                             | 17.9    | 20.5   | 20.8   | 20.4   | 17.6   | 19.4     | 19.2   | 18.7   | 16.5   | 13.7   | 15.7     | 16.7   | 15.5   | 12.8   | 10.9   | 12.9     | 13.1   | 12.6   | 10.1   | 8.6    |     |     |
| 42.0                                                                             | 14.4    | 18.3   | 19.6   | 19.3   | 17.2   | 18.4     | 18.0   | 17.6   | 16.0   | 13.4   | 15.0     | 16.0   | 15.0   | 12.4   | 10.8   | 12.4     | 12.6   | 12.2   | 9.8    | 8.4    |     |     |
| 44.0                                                                             |         | 9.3    | 16.0   | 18.3   | 18.2   | 16.8     | 16.6   | 16.9   | 16.6   | 15.5   | 13.0     | 14.3   | 15.3   | 14.6   | 12.2   | 10.5     | 12.0   | 12.3   | 11.8   | 9.7    | 8.2 |     |
| 46.0                                                                             |         |        | 13.4   | 16.5   | 17.2   | 16.2     | 14.3   | 16.0   | 15.7   | 15.3   | 12.7     | 13.8   | 14.7   | 14.0   | 12.1   | 10.2     | 11.6   | 11.8   | 11.5   | 9.6    | 8.0 |     |
| 48.0                                                                             |         |        | 10.0   | 14.6   | 16.2   | 15.9     | 11.4   | 14.8   | 14.8   | 14.7   | 12.3     | 13.4   | 14.0   | 13.5   | 11.7   | 10.0     | 11.1   | 11.4   | 11.2   | 9.5    | 7.8 |     |
| 50.0                                                                             |         |        |        | 12.5   | 14.9   | 15.1     | 7.2    | 12.9   | 14.1   | 14.0   | 11.9     | 12.9   | 13.2   | 12.8   | 11.4   | 9.7      | 10.6   | 11.0   | 10.9   | 9.2    | 7.6 |     |
| 54.0                                                                             |         |        |        | 6.3    | 11.6   | 13.0     |        | 7.9    | 11.8   | 12.6   | 11.5     | 9.2    | 11.8   | 11.6   | 11.0   | 9.2      | 10.0   | 10.3   | 10.2   | 8.8    | 7.4 |     |
| 58.0                                                                             |         |        |        |        | 7.2    | 10.2     |        |        | 7.9    | 10.9   | 10.9     |        |        | 8.7    | 10.5   | 10.3     | 8.9    | 9.2    | 9.7    | 9.6    | 8.4 | 7.0 |
| 62.0                                                                             |         |        |        |        |        | 6.5      |        |        |        | 7.8    |          |        |        |        | 8.3    | 9.4      | 8.6    | 3.9    | 8.4    | 8.6    | 8.3 | 6.7 |
| 66.0                                                                             |         |        |        |        |        |          |        |        |        |        | 6.8      |        |        |        |        | 3.7      | 7.7    |        | 4.6    | 7.8    | 7.8 | 6.4 |
| 70.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        | 4.4      | 6.7    |        | 4.9    | 7.1    | 6.2 |     |
| 74.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          | 3.8    |        |        |        | 4.8 | 6.0 |
| 78.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |     | 4.0 |

Uso · Эксплуатация



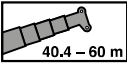




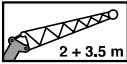
|  | 40.4 m  | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m | 40.4 m   | 45.4 m | 50.5 m | 55.6 m | 60.0 m |
|----------------------------------------------------------------------------------|---------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|----------|--------|--------|--------|--------|
|                                                                                  | + 6.0 m |        |        |        |        | + 12.0 m |        |        |        |        | + 18.0 m |        |        |        |        | + 24.0 m |        |        |        |        |
|                                                                                  |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 7.0                                                                              | 58.6    |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 8.0                                                                              | 58.6    | 55.2   |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 9.0                                                                              | 58.6    | 54.4   | 41.0   |        |        | 47.6     |        |        |        |        |          |        |        |        |        |          |        |        |        |        |
| 10.0                                                                             | 58.6    | 53.8   | 40.3   | 31.8   |        | 47.4     | 40.1   | 31.2   |        |        | 33.3     |        |        |        |        |          |        |        |        |        |
| 11.0                                                                             | 58.6    | 53.1   | 39.9   | 30.6   | 28.1   | 47.4     | 39.8   | 31.2   |        |        | 33.3     | 29.4   |        |        |        | 25.2     |        |        |        |        |
| 12.0                                                                             | 58.6    | 52.4   | 39.4   | 29.4   | 28.0   | 47.4     | 39.5   | 29.9   | 23.9   |        | 33.2     | 29.3   | 22.7   |        |        | 24.5     | 20.9   |        |        |        |
| 14.0                                                                             | 58.6    | 51.0   | 38.5   | 28.7   | 26.1   | 45.2     | 38.7   | 28.9   | 23.9   | 20.9   | 31.1     | 29.1   | 22.7   | 17.9   | 15.7   | 23.3     | 20.9   | 16.8   |        |        |
| 16.0                                                                             | 57.9    | 49.5   | 37.5   | 28.1   | 24.4   | 42.7     | 38.4   | 28.3   | 22.3   | 20.9   | 29.1     | 28.5   | 22.6   | 17.9   | 15.7   | 22.2     | 20.9   | 16.8   | 13.2   | 11.5   |
| 18.0                                                                             | 49.9    | 48.1   | 36.5   | 27.2   | 23.3   | 40.4     | 38.3   | 27.8   | 21.1   | 19.9   | 27.3     | 27.0   | 21.0   | 17.9   | 15.4   | 21.2     | 19.9   | 16.8   | 13.2   | 11.2   |
| 20.0                                                                             | 43.5    | 43.1   | 35.6   | 26.1   | 22.7   | 37.1     | 35.7   | 27.3   | 20.7   | 18.7   | 25.5     | 25.7   | 20.0   | 17.2   | 15.0   | 20.3     | 19.3   | 16.8   | 13.2   | 10.9   |
| 22.0                                                                             | 37.7    | 38.1   | 34.4   | 25.9   | 22.1   | 33.7     | 32.8   | 26.3   | 20.3   | 17.7   | 24.0     | 24.4   | 19.7   | 16.1   | 14.6   | 19.4     | 18.4   | 16.1   | 13.2   | 10.6   |
| 24.0                                                                             | 32.8    | 33.4   | 33.0   | 25.2   | 21.2   | 31.5     | 31.4   | 25.5   | 19.8   | 16.7   | 22.8     | 23.3   | 19.3   | 15.2   | 14.1   | 18.5     | 17.7   | 15.2   | 13.2   | 10.2   |
| 26.0                                                                             | 28.8    | 29.4   | 30.2   | 24.3   | 20.9   | 29.7     | 30.1   | 25.3   | 19.3   | 15.9   | 21.6     | 22.3   | 18.9   | 14.8   | 13.7   | 17.6     | 17.1   | 14.8   | 12.6   | 9.8    |
| 28.0                                                                             | 25.4    | 25.9   | 26.7   | 23.9   | 20.6   | 26.3     | 26.7   | 24.6   | 18.6   | 15.4   | 20.5     | 21.3   | 18.5   | 14.6   | 13.2   | 16.7     | 16.5   | 14.7   | 11.9   | 9.5    |
| 30.0                                                                             | 22.5    | 23.1   | 23.8   | 23.3   | 19.9   | 23.4     | 23.8   | 23.8   | 18.3   | 15.3   | 19.4     | 20.4   | 17.9   | 14.1   | 12.6   | 15.9     | 15.8   | 14.5   | 11.3   | 9.4    |
| 32.0                                                                             | 20.0    | 20.6   | 21.3   | 21.9   | 19.4   | 20.9     | 21.3   | 21.7   | 18.1   | 14.8   | 18.6     | 19.6   | 17.4   | 13.9   | 11.9   | 15.3     | 15.2   | 14.0   | 10.8   | 9.2    |
| 34.0                                                                             | 17.9    | 18.4   | 19.2   | 19.7   | 19.0   | 18.7     | 19.1   | 19.6   | 17.5   | 14.4   | 17.8     | 18.7   | 16.9   | 13.8   | 11.5   | 14.7     | 14.6   | 14.0   | 10.4   | 8.9    |
| 36.0                                                                             | 16.0    | 16.5   | 17.3   | 17.8   | 17.9   | 16.8     | 17.2   | 17.7   | 17.0   | 14.2   | 17.0     | 17.8   | 16.5   | 13.5   | 11.1   | 14.1     | 14.2   | 13.5   | 10.4   | 8.7    |
| 38.0                                                                             | 14.3    | 14.9   | 15.6   | 16.1   | 16.3   | 15.1     | 15.5   | 16.0   | 16.5   | 13.8   | 15.9     | 16.1   | 16.0   | 13.1   | 11.0   | 13.5     | 13.7   | 13.1   | 10.3   | 8.7    |
| 40.0                                                                             | 12.9    | 13.4   | 14.1   | 14.6   | 14.8   | 13.7     | 14.0   | 14.5   | 15.0   | 13.7   | 14.4     | 14.6   | 15.0   | 12.8   | 10.9   | 12.9     | 13.1   | 12.6   | 10.1   | 8.6    |
| 42.0                                                                             | 11.6    | 12.1   | 12.8   | 13.3   | 13.4   | 12.3     | 12.7   | 13.2   | 13.7   | 13.4   | 13.1     | 13.2   | 13.7   | 12.4   | 10.8   | 12.4     | 12.6   | 12.2   | 9.8    | 8.4    |
| 44.0                                                                             | 9.3     | 10.9   | 11.6   | 12.1   | 12.2   | 11.1     | 11.5   | 11.9   | 12.5   | 12.4   | 11.9     | 12.0   | 12.5   | 12.2   | 10.5   | 12.0     | 12.3   | 11.8   | 9.7    | 8.2    |
| 46.0                                                                             |         | 9.8    | 10.5   | 11.0   | 11.1   | 10.1     | 10.4   | 10.9   | 11.4   | 11.3   | 10.8     | 10.9   | 11.4   | 11.7   | 10.2   | 11.2     | 11.3   | 11.5   | 9.6    | 8.0    |
| 48.0                                                                             |         | 8.8    | 9.5    | 10.0   | 10.1   | 9.1      | 9.4    | 9.9    | 10.4   | 10.3   | 9.8      | 9.9    | 10.4   | 10.7   | 10.0   | 10.2     | 10.3   | 10.5   | 9.5    | 7.8    |
| 50.0                                                                             |         |        | 8.6    | 9.1    | 9.2    | 7.2      | 8.5    | 9.0    | 9.5    | 9.4    | 8.9      | 9.0    | 9.5    | 9.8    | 9.6    | 9.3      | 9.3    | 9.6    | 9.2    | 7.6    |
| 54.0                                                                             |         |        | 6.3    | 7.6    | 7.6    |          | 6.9    | 7.4    | 7.8    | 7.8    | 7.3      | 7.5    | 7.9    | 8.2    | 8.0    | 7.7      | 7.7    | 8.0    | 8.2    | 7.4    |
| 58.0                                                                             |         |        |        | 6.2    | 6.3    |          |        | 6.0    | 6.5    | 6.4    |          | 6.1    | 6.5    | 6.8    | 6.7    | 6.3      | 6.4    | 6.6    | 6.8    | 6.7    |
| 62.0                                                                             |         |        |        |        | 5.1    |          |        |        | 5.3    | 5.2    |          |        | 5.3    | 5.6    | 5.5    | 3.9      | 5.2    | 5.4    | 5.6    | 5.5    |
| 66.0                                                                             |         |        |        |        |        |          |        |        |        | 4.2    |          |        |        | 3.7    | 4.6    | 4.5      | 4.2    | 4.4    | 4.6    | 4.5    |
| 70.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        | 3.7    | 3.6    |          |        | 3.5    | 3.7    | 3.6    |
| 74.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        |        | 2.8    |          |        |        | 2.9    | 2.8    |
| 78.0                                                                             |         |        |        |        |        |          |        |        |        |        |          |        |        |        |        |          |        |        |        | 2.1    |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

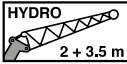
Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



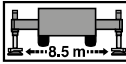
40.4 – 60 m



2 + 3.5 m



HYDRO  
2 + 3.5 m



8.5 m



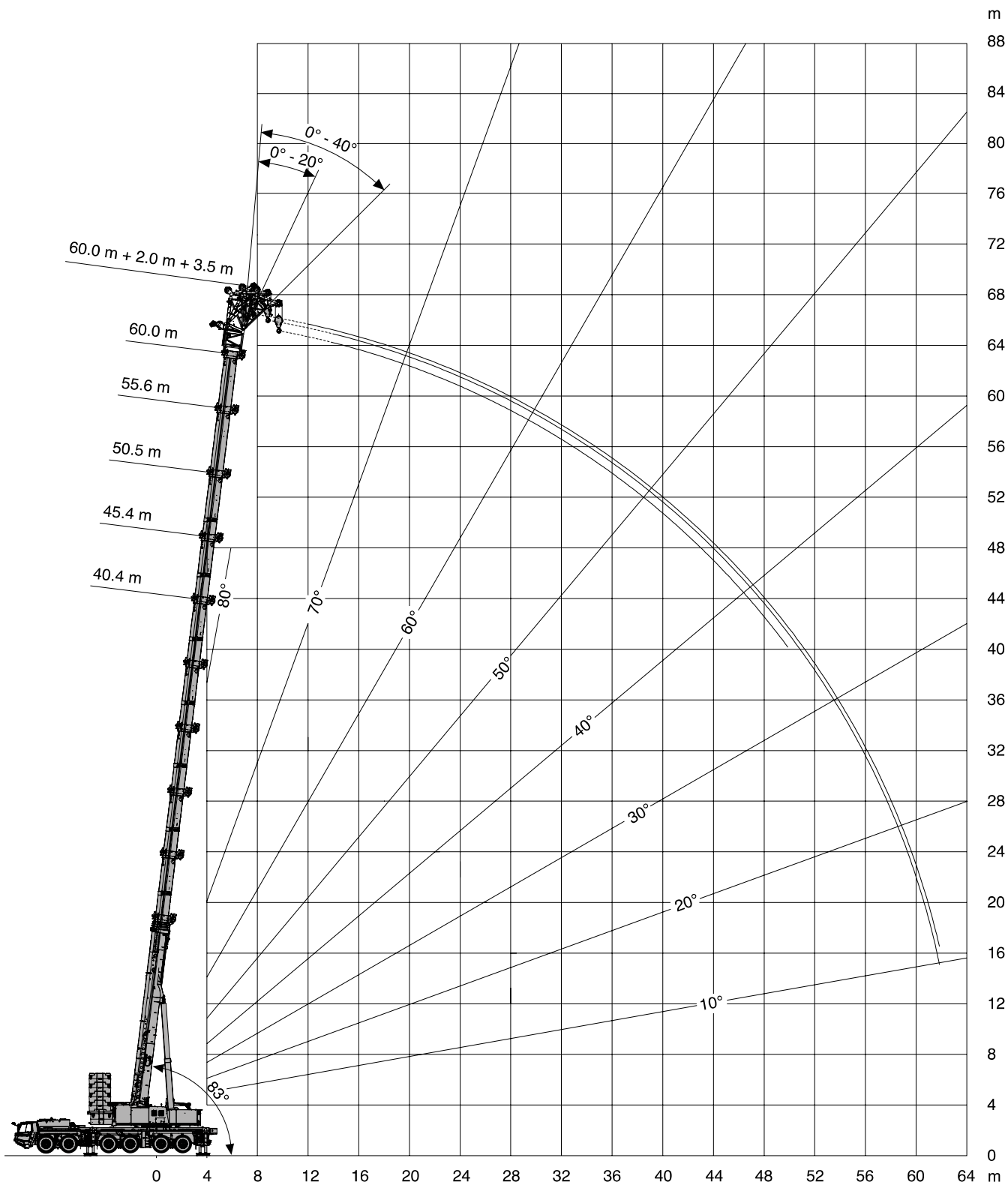
360°



136 t

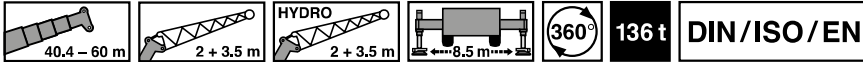
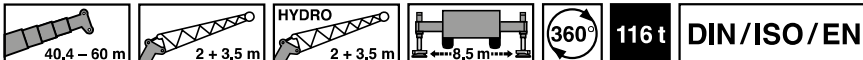


DIN/ISO/EN

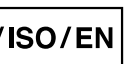


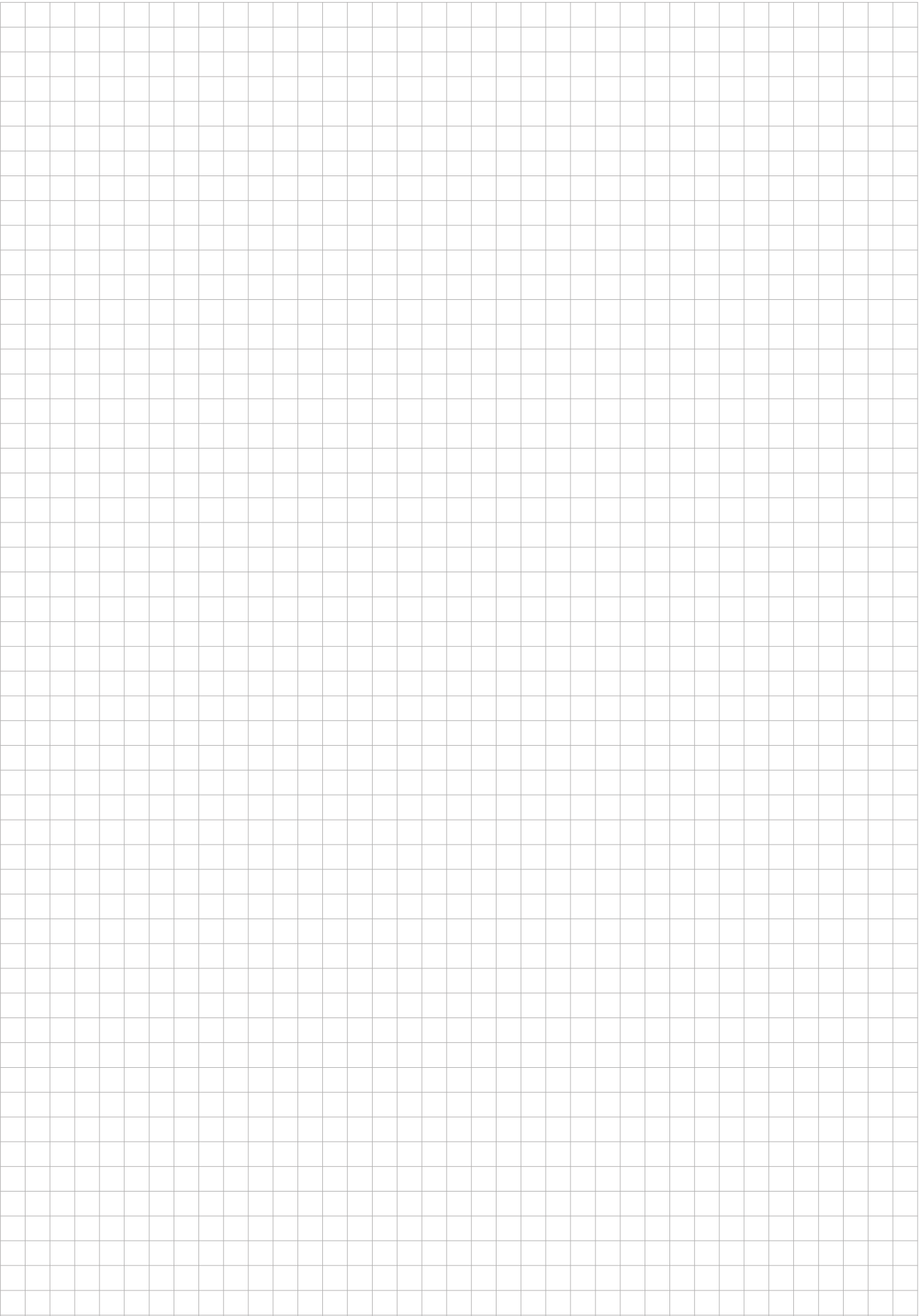
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

[illegible][illegible]

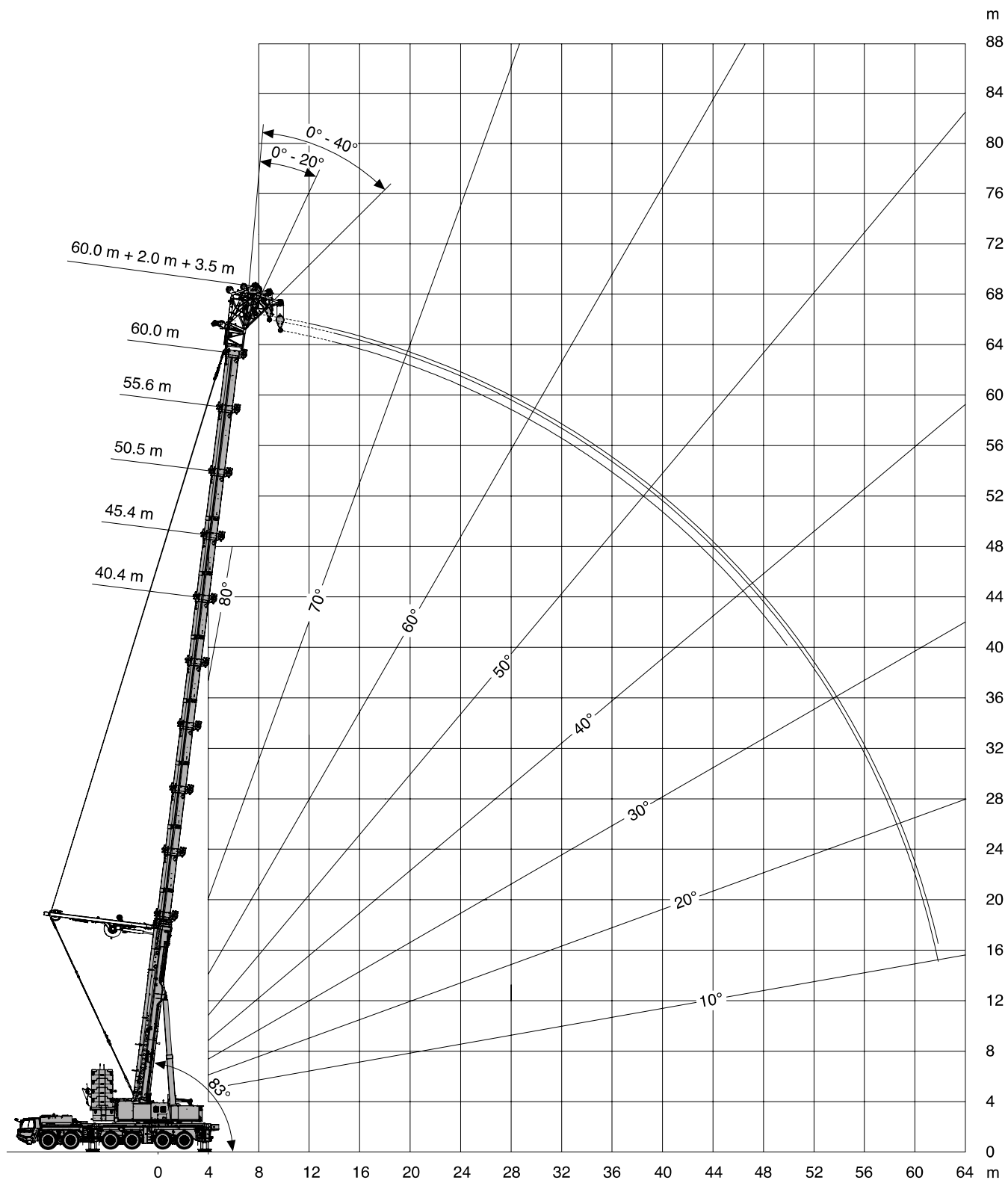
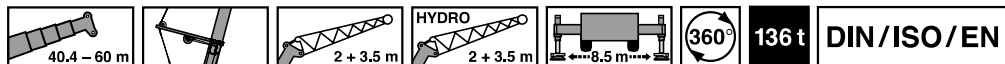
Uso · Эксплуатация

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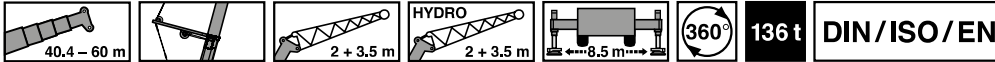
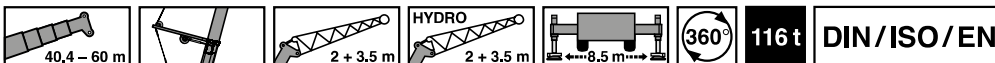
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



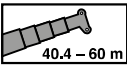
Operation · Einsatz · Utilisation  
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Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

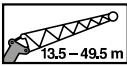
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Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



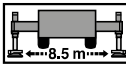
40.4 – 60 m



13.5 – 49.5 m



HYDRO  
13.5 – 49.5 m



8.5 m



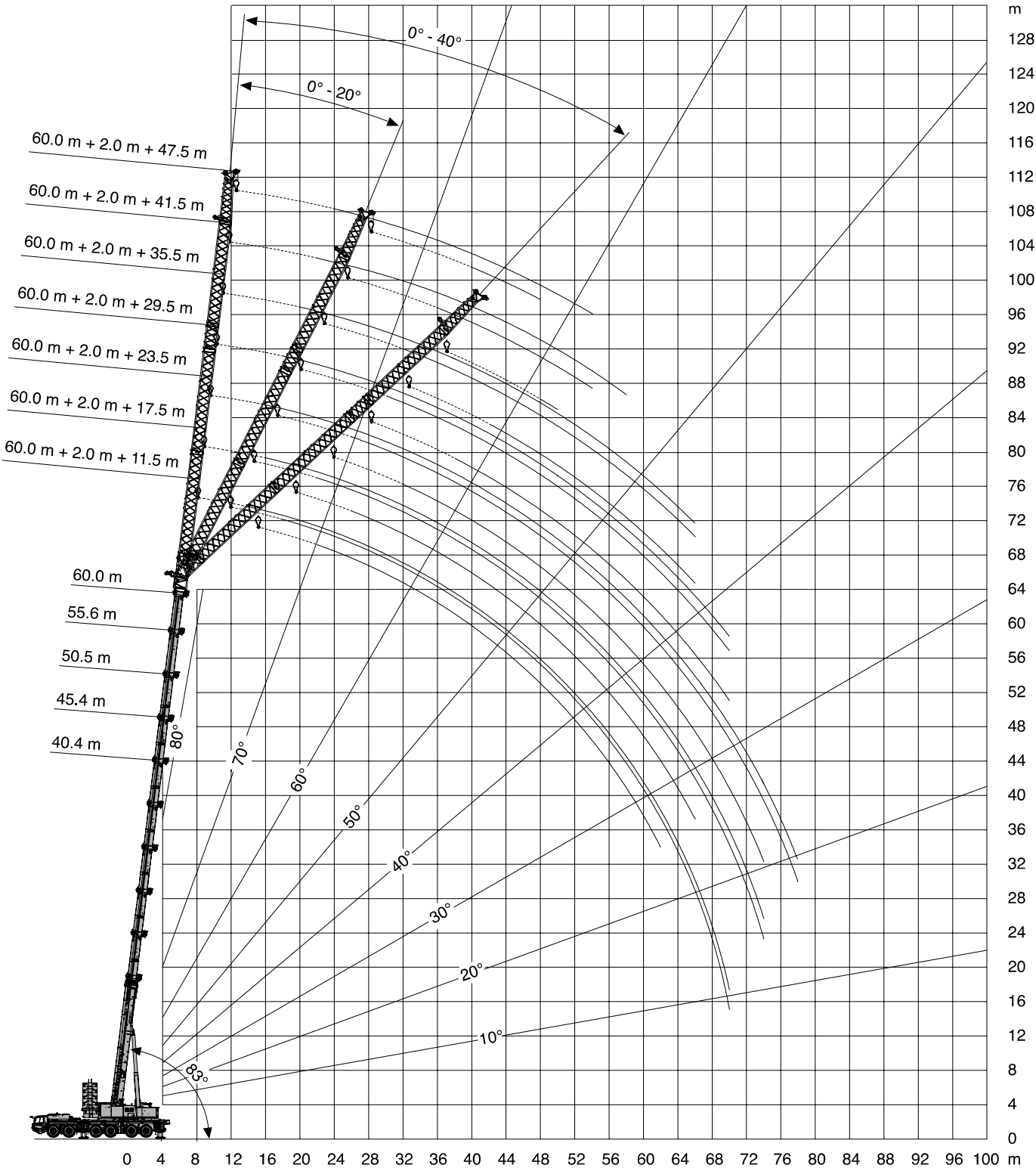
360°



136 t



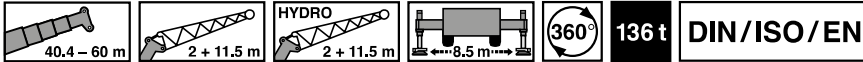
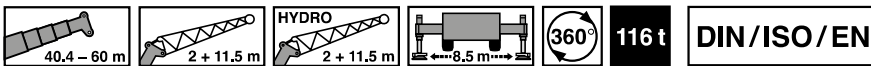
DIN/ISO/EN



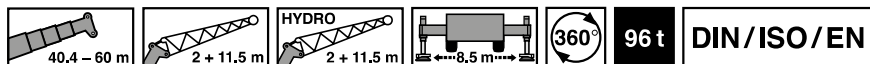
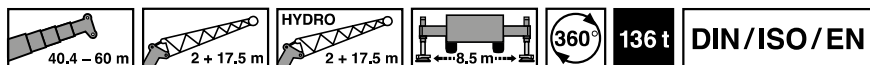


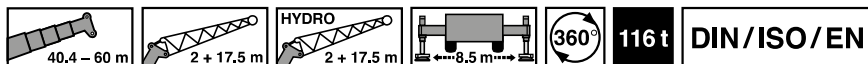
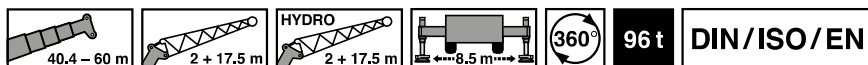
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

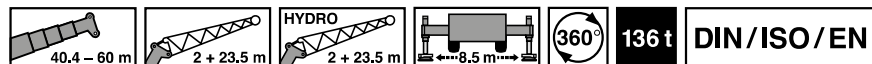
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Uso · Эксплуатация

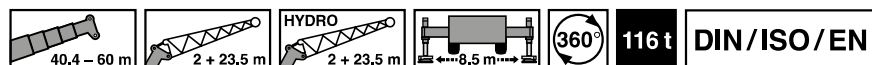
[illegible][illegible]

[illegible][illegible]

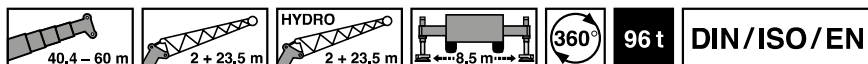
Operation · Einsatz · Utilisation  
Uso · Эксплуатация



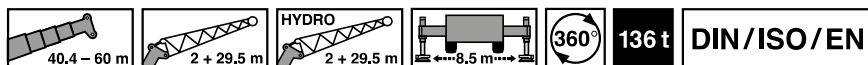
|  m | 40.4 m + 2.0 m + 23.5 m |      |      | 45.4 m + 2.0 m + 23.5 m |      |      | 50.5 m + 2.0 m + 23.5 m |      |     | 55.6 m + 2.0 m + 23.5 m |      |     | 60.0 m + 2.0 m + 23.5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° |
| 11.0                                                                               | 30.9                    |      |      |                         |      |      |                         |      |     |                         |      |     |                         |     |     |
| 12.0                                                                               | 29.6                    |      |      |                         |      |      |                         |      |     |                         |      |     |                         |     |     |
| 14.0                                                                               | 27.2                    |      |      | 26.5                    |      |      | 21.1                    |      |     |                         |      |     |                         |     |     |
| 16.0                                                                               | 25.1                    |      |      | 24.6                    |      |      | 21.1                    |      |     | 16.9                    |      |     | 14.8                    |     |     |
| 18.0                                                                               | 23.3                    |      |      | 23.0                    |      |      | 20.7                    |      |     | 16.9                    |      |     | 14.8                    |     |     |
| 20.0                                                                               | 21.7                    | 15.3 |      | 21.5                    |      |      | 19.0                    |      |     | 16.9                    |      |     | 14.8                    |     |     |
| 22.0                                                                               | 20.4                    | 14.6 |      | 20.2                    | 14.4 |      | 17.5                    | 13.6 |     | 16.0                    |      |     | 14.8                    |     |     |
| 24.0                                                                               | 19.1                    | 13.9 |      | 19.1                    | 13.8 |      | 16.3                    | 12.9 |     | 14.9                    | 11.7 |     | 13.6                    |     |     |
| 26.0                                                                               | 18.0                    | 13.3 | 10.9 | 18.1                    | 13.2 |      | 15.1                    | 12.3 |     | 13.8                    | 11.1 |     | 12.4                    | 9.3 |     |
| 28.0                                                                               | 17.1                    | 12.8 | 10.6 | 17.2                    | 12.7 | 10.5 | 14.1                    | 11.7 |     | 12.9                    | 10.6 |     | 11.3                    | 8.7 |     |
| 30.0                                                                               | 16.2                    | 12.3 | 10.3 | 16.3                    | 12.3 | 10.2 | 13.3                    | 11.2 | 9.5 | 12.1                    | 10.1 | 8.7 | 10.3                    | 8.2 |     |
| 32.0                                                                               | 15.4                    | 11.9 | 10.0 | 15.6                    | 11.8 | 9.9  | 12.5                    | 10.7 | 9.1 | 11.3                    | 9.6  | 8.4 | 9.5                     | 7.7 | 6.5 |
| 34.0                                                                               | 14.7                    | 11.4 | 9.8  | 14.9                    | 11.4 | 9.7  | 11.7                    | 10.2 | 8.8 | 10.6                    | 9.2  | 8.1 | 8.7                     | 7.3 | 6.2 |
| 36.0                                                                               | 14.0                    | 11.1 | 9.5  | 14.2                    | 11.1 | 9.5  | 11.1                    | 9.7  | 8.5 | 10.0                    | 8.8  | 7.8 | 8.0                     | 6.8 | 5.9 |
| 38.0                                                                               | 13.4                    | 10.7 | 9.3  | 13.4                    | 10.7 | 9.3  | 10.5                    | 9.3  | 8.3 | 9.5                     | 8.4  | 7.5 | 7.4                     | 6.5 | 5.7 |
| 40.0                                                                               | 12.9                    | 10.4 | 9.1  | 12.8                    | 10.4 | 9.1  | 9.9                     | 8.9  | 8.0 | 9.0                     | 8.1  | 7.2 | 6.8                     | 6.1 | 5.4 |
| 42.0                                                                               | 12.4                    | 10.1 | 8.9  | 12.2                    | 10.1 | 8.9  | 9.4                     | 8.5  | 7.8 | 8.5                     | 7.7  | 7.0 | 6.3                     | 5.8 | 5.1 |
| 44.0                                                                               | 11.9                    | 9.8  | 8.8  | 11.6                    | 9.8  | 8.7  | 9.0                     | 8.1  | 7.6 | 8.1                     | 7.4  | 6.7 | 5.8                     | 5.5 | 4.9 |
| 46.0                                                                               | 11.5                    | 9.6  | 8.7  | 11.1                    | 9.6  | 8.6  | 8.6                     | 7.7  | 7.3 | 7.7                     | 7.0  | 6.5 | 5.4                     | 5.1 | 4.7 |
| 48.0                                                                               | 11.1                    | 9.3  | 8.5  | 10.6                    | 9.4  | 8.5  | 8.2                     | 7.4  | 7.0 | 7.3                     | 6.7  | 6.3 | 5.0                     | 4.8 | 4.5 |
| 50.0                                                                               | 10.8                    | 9.1  | 8.4  | 10.1                    | 9.2  | 8.3  | 7.8                     | 7.1  | 6.8 | 6.9                     | 6.4  | 6.1 | 4.6                     | 4.4 | 4.3 |
| 54.0                                                                               | 10.0                    | 8.8  | 8.3  | 9.3                     | 8.7  | 8.2  | 7.2                     | 6.6  | 6.3 | 6.1                     | 5.7  | 5.5 | 4.0                     | 3.9 | 3.9 |
| 58.0                                                                               | 8.7                     | 8.6  | 8.3  | 8.3                     | 8.1  | 7.8  | 6.5                     | 6.1  | 5.9 | 5.4                     | 5.1  | 5.0 | 3.4                     | 3.4 | 3.4 |
| 62.0                                                                               | 5.9                     | 7.9  |      | 7.2                     | 7.4  | 7.4  | 5.9                     | 5.5  | 5.4 | 4.8                     | 4.6  | 4.5 | 2.9                     | 2.9 | 3.0 |
| 66.0                                                                               |                         |      |      | 5.7                     | 6.5  |      | 5.3                     | 5.1  | 5.0 | 4.2                     | 4.1  | 4.0 | 2.5                     | 2.5 | 2.6 |
| 70.0                                                                               |                         |      |      |                         |      |      | 4.9                     | 4.7  |     | 3.8                     | 3.7  | 3.7 | 2.1                     | 2.1 | 2.3 |
| 74.0                                                                               |                         |      |      |                         |      |      |                         |      |     | 3.4                     | 3.3  |     | 1.8                     | 1.8 | 1.9 |
| 78.0                                                                               |                         |      |      |                         |      |      |                         |      |     | 1.8                     | 3.0  |     | 1.5                     | 1.6 |     |

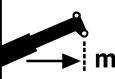


|  m | 40.4 m + 2.0 m + 23.5 m |      |      | 45.4 m + 2.0 m + 23.5 m |      |      | 50.5 m + 2.0 m + 23.5 m |      |     | 55.6 m + 2.0 m + 23.5 m |      |     | 60.0 m + 2.0 m + 23.5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° |
| 11.0                                                                                 | 30.9                    |      |      |                         |      |      |                         |      |     |                         |      |     |                         |     |     |
| 12.0                                                                                 | 29.6                    |      |      |                         |      |      |                         |      |     |                         |      |     |                         |     |     |
| 14.0                                                                                 | 27.2                    |      |      | 26.5                    |      |      | 21.1                    |      |     |                         |      |     |                         |     |     |
| 16.0                                                                                 | 25.1                    |      |      | 24.6                    |      |      | 21.1                    |      |     | 16.9                    |      |     | 14.8                    |     |     |
| 18.0                                                                                 | 23.3                    |      |      | 23.0                    |      |      | 20.7                    |      |     | 16.9                    |      |     | 14.8                    |     |     |
| 20.0                                                                                 | 21.7                    | 15.3 |      | 21.5                    |      |      | 19.0                    |      |     | 16.9                    |      |     | 14.8                    |     |     |
| 22.0                                                                                 | 20.4                    | 14.6 |      | 20.2                    | 14.4 |      | 17.5                    | 13.6 |     | 16.0                    |      |     | 14.8                    |     |     |
| 24.0                                                                                 | 19.1                    | 13.9 |      | 19.1                    | 13.8 |      | 16.3                    | 12.9 |     | 14.9                    | 11.7 |     | 13.6                    |     |     |
| 26.0                                                                                 | 18.0                    | 13.3 | 10.9 | 18.1                    | 13.2 |      | 15.1                    | 12.3 |     | 13.8                    | 11.1 |     | 12.4                    | 9.3 |     |
| 28.0                                                                                 | 17.1                    | 12.8 | 10.6 | 17.2                    | 12.7 | 10.5 | 14.1                    | 11.7 |     | 12.9                    | 10.6 |     | 11.3                    | 8.7 |     |
| 30.0                                                                                 | 16.2                    | 12.3 | 10.3 | 16.3                    | 12.3 | 10.2 | 13.3                    | 11.2 | 9.5 | 12.1                    | 10.1 | 8.7 | 10.3                    | 8.2 |     |
| 32.0                                                                                 | 15.4                    | 11.9 | 10.0 | 15.6                    | 11.8 | 9.9  | 12.5                    | 10.7 | 9.1 | 11.3                    | 9.6  | 8.4 | 9.5                     | 7.7 | 6.5 |
| 34.0                                                                                 | 14.7                    | 11.4 | 9.8  | 14.9                    | 11.4 | 9.7  | 11.7                    | 10.2 | 8.8 | 10.6                    | 9.2  | 8.1 | 8.7                     | 7.3 | 6.2 |
| 36.0                                                                                 | 14.0                    | 11.1 | 9.5  | 14.2                    | 11.1 | 9.5  | 11.1                    | 9.7  | 8.5 | 10.0                    | 8.8  | 7.8 | 8.0                     | 6.8 | 5.9 |
| 38.0                                                                                 | 13.4                    | 10.7 | 9.3  | 13.4                    | 10.7 | 9.3  | 10.5                    | 9.3  | 8.3 | 9.5                     | 8.4  | 7.5 | 7.4                     | 6.5 | 5.7 |
| 40.0                                                                                 | 12.9                    | 10.4 | 9.1  | 12.8                    | 10.4 | 9.1  | 9.9                     | 8.9  | 8.0 | 9.0                     | 8.1  | 7.2 | 6.8                     | 6.1 | 5.4 |
| 42.0                                                                                 | 12.4                    | 10.1 | 8.9  | 12.2                    | 10.1 | 8.9  | 9.4                     | 8.5  | 7.8 | 8.5                     | 7.7  | 7.0 | 6.3                     | 5.8 | 5.1 |
| 44.0                                                                                 | 11.9                    | 9.8  | 8.8  | 11.6                    | 9.8  | 8.7  | 9.0                     | 8.1  | 7.6 | 8.1                     | 7.4  | 6.7 | 5.8                     | 5.5 | 4.9 |
| 46.0                                                                                 | 11.5                    | 9.6  | 8.7  | 11.1                    | 9.6  | 8.6  | 8.6                     | 7.7  | 7.3 | 7.7                     | 7.0  | 6.5 | 5.4                     | 5.1 | 4.7 |
| 48.0                                                                                 | 11.1                    | 9.3  | 8.5  | 10.6                    | 9.4  | 8.5  | 8.2                     | 7.4  | 7.0 | 7.3                     | 6.7  | 6.3 | 5.0                     | 4.8 | 4.5 |
| 50.0                                                                                 | 10.8                    | 9.1  | 8.4  | 10.1                    | 9.2  | 8.3  | 7.8                     | 7.1  | 6.8 | 6.9                     | 6.4  | 6.1 | 4.6                     | 4.4 | 4.3 |
| 54.0                                                                                 | 9.9                     | 8.8  | 8.3  | 9.3                     | 8.7  | 8.2  | 7.2                     | 6.6  | 6.3 | 6.1                     | 5.7  | 5.5 | 4.0                     | 3.9 | 3.9 |
| 58.0                                                                                 | 8.4                     | 8.6  | 8.3  | 8.3                     | 8.1  | 7.8  | 6.5                     | 6.1  | 5.9 | 5.4                     | 5.1  | 5.0 | 3.4                     | 3.4 | 3.4 |
| 62.0                                                                                 | 5.9                     | 7.4  |      | 7.1                     | 7.4  | 7.4  | 5.9                     | 5.5  | 5.4 | 4.8                     | 4.6  | 4.5 | 2.9                     | 2.9 | 3.0 |
| 66.0                                                                                 |                         |      |      | 5.7                     | 6.2  |      | 5.3                     | 5.1  | 5.0 | 4.2                     | 4.1  | 4.0 | 2.5                     | 2.5 | 2.6 |
| 70.0                                                                                 |                         |      |      |                         |      |      | 4.9                     | 4.7  |     | 3.8                     | 3.7  | 3.7 | 2.1                     | 2.1 | 2.3 |
| 74.0                                                                                 |                         |      |      |                         |      |      |                         |      |     | 3.4                     | 3.3  |     | 1.8                     | 1.8 | 1.9 |
| 78.0                                                                                 |                         |      |      |                         |      |      |                         |      |     | 1.8                     | 3.0  |     | 1.5                     | 1.6 |     |

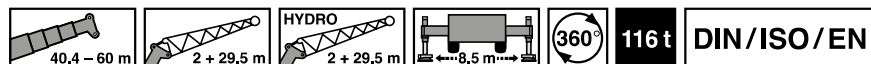


|  m | 40.4 m + 2.0 m + 23.5 m |      |      | 45.4 m + 2.0 m + 23.5 m |      |      | 50.5 m + 2.0 m + 23.5 m |      |     | 55.6 m + 2.0 m + 23.5 m |     |     | 60.0 m + 2.0 m + 23.5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 11.0                                                                               | 26.7                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 12.0                                                                               | 25.7                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 14.0                                                                               | 23.9                    |      |      | 22.1                    |      |      | 17.8                    |      |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 22.2                    |      |      | 20.7                    |      |      | 16.3                    |      |     | 14.3                    |     |     | 13.6                    |     |     |
| 18.0                                                                               | 20.8                    |      |      | 19.4                    |      |      | 15.1                    |      |     | 13.2                    |     |     | 12.6                    |     |     |
| 20.0                                                                               | 19.6                    | 15.3 |      | 18.1                    |      |      | 14.1                    |      |     | 12.3                    |     |     | 11.7                    |     |     |
| 22.0                                                                               | 18.5                    | 14.6 |      | 16.9                    | 13.8 |      | 13.2                    | 10.4 |     | 11.5                    |     |     | 10.9                    |     |     |
| 24.0                                                                               | 17.5                    | 13.9 |      | 15.8                    | 13.2 |      | 12.3                    | 9.9  |     | 10.8                    | 8.9 |     | 10.2                    |     |     |
| 26.0                                                                               | 16.6                    | 13.3 | 10.9 | 14.8                    | 12.6 |      | 11.5                    | 9.5  |     | 10.1                    | 8.4 |     | 9.6                     | 8.1 |     |
| 28.0                                                                               | 15.8                    | 12.8 | 10.6 | 14.0                    | 12.2 | 10.5 | 10.9                    | 9.0  |     | 9.5                     | 8.0 |     | 9.1                     | 7.7 |     |
| 30.0                                                                               | 15.1                    | 12.3 | 10.3 | 13.2                    | 11.6 | 10.2 | 10.2                    | 8.7  | 7.6 | 9.0                     | 7.6 | 6.8 | 8.6                     | 7.3 |     |
| 32.0                                                                               | 14.5                    | 11.9 | 10.0 | 12.5                    | 11.1 | 9.9  | 9.7                     | 8.3  | 7.3 | 8.6                     | 7.3 | 6.5 | 8.1                     | 7.0 | 6.3 |
| 34.0                                                                               | 13.9                    | 11.4 | 9.8  | 11.9                    | 10.6 | 9.7  | 9.2                     | 8.0  | 7.0 | 8.1                     | 7.0 | 6.3 | 7.7                     | 6.7 | 6.0 |
| 36.0                                                                               | 13.3                    | 11.1 | 9.5  | 11.3                    | 10.1 | 9.4  | 8.7                     | 7.7  | 6.8 | 7.7                     | 6.7 | 6.1 | 7.3                     | 6.4 | 5.8 |
| 38.0                                                                               | 12.7                    | 10.7 | 9.3  | 10.8                    | 9.7  | 9.0  | 8.3                     | 7.4  | 6.6 | 7.3                     | 6.4 | 5.8 | 6.9                     | 6.1 | 5.6 |
| 40.0                                                                               | 12.1                    | 10.4 | 9.1  | 10.4                    | 9.3  | 8.7  | 7.9                     | 7.1  | 6.4 | 6.9                     | 6.2 | 5.6 | 6.5                     | 5.9 | 5.4 |
| 42.0                                                                               | 11.6                    | 10.1 | 8.9  | 9.9                     | 9.0  | 8.4  | 7.5                     | 6.9  | 6.2 | 6.6                     | 5.9 | 5.4 | 6.2                     | 5.7 | 5.1 |
| 44.0                                                                               | 11.1                    | 9.8  | 8.8  | 9.5                     | 8.6  | 8.1  | 7.2                     | 6.6  | 6.1 | 6.3                     | 5.7 | 5.3 | 5.8                     | 5.4 | 4.9 |
| 46.0                                                                               | 10.6                    | 9.6  | 8.7  | 9.2                     | 8.3  | 7.9  | 6.9                     | 6.3  | 5.9 | 6.0                     | 5.5 | 5.1 | 5.4                     | 5.1 | 4.7 |
| 48.0                                                                               | 9.7                     | 9.3  | 8.5  | 8.8                     | 8.1  | 7.6  | 6.6                     | 6.1  | 5.8 | 5.7                     | 5.3 | 4.9 | 5.0                     | 4.8 | 4.5 |
| 50.0                                                                               | 8.8                     | 9.1  | 8.4  | 8.5                     | 7.8  | 7.4  | 6.4                     | 5.9  | 5.6 | 5.4                     | 5.1 | 4.8 | 4.6                     | 4.4 | 4.3 |
| 54.0                                                                               | 7.3                     | 8.0  | 8.3  | 7.2                     | 7.3  | 7.0  | 5.9                     | 5.5  | 5.2 | 4.8                     | 4.6 | 4.4 | 4.0                     | 3.9 | 3.9 |
| 58.0                                                                               | 6.0                     | 6.5  | 6.6  | 5.9                     | 6.6  | 6.7  | 5.4                     | 5.1  | 4.9 | 4.3                     | 4.1 | 4.0 | 3.4                     | 3.4 | 3.4 |
| 62.0                                                                               | 4.9                     | 5.1  |      | 4.8                     | 5.3  | 5.4  | 4.9                     | 4.7  | 4.5 | 3.8                     | 3.7 | 3.6 | 2.9                     | 2.9 | 3.0 |
| 66.0                                                                               |                         |      |      | 3.9                     | 4.1  |      | 4.0                     | 4.3  | 4.3 | 3.5                     | 3.3 | 3.3 | 2.5                     | 2.5 | 2.6 |
| 70.0                                                                               |                         |      |      |                         |      |      | 3.1                     | 3.4  |     | 3.1                     | 3.0 | 3.0 | 2.1                     | 2.1 | 2.3 |
| 74.0                                                                               |                         |      |      |                         |      |      |                         |      |     | 2.5                     | 2.8 |     | 1.8                     | 1.8 | 1.9 |
| 78.0                                                                               |                         |      |      |                         |      |      |                         |      |     | 1.8                     | 2.0 |     | 1.5                     | 1.6 |     |

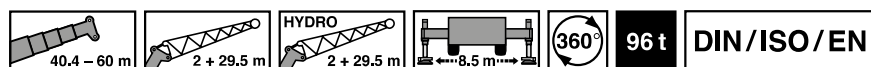


|  m | 40.4 m + 2.0 m + 29.5 m |      |     | 45.4 m + 2.0 m + 29.5 m |      |     | 50.5 m + 2.0 m + 29.5 m |      |     | 55.6 m + 2.0 m + 29.5 m |     |     | 60.0 m + 2.0 m + 29.5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 12.0                                                                                 | 23.9                    |      |     |                         |      |     |                         |      |     |                         |     |     |                         |     |     |
| 14.0                                                                                 | 21.9                    |      |     | 21.1                    |      |     |                         |      |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 20.2                    |      |     | 19.9                    |      |     | 16.9                    |      |     | 13.6                    |     |     |                         |     |     |
| 18.0                                                                                 | 18.7                    |      |     | 18.5                    |      |     | 16.9                    |      |     | 13.6                    |     |     | 12.0                    |     |     |
| 20.0                                                                                 | 17.5                    |      |     | 17.3                    |      |     | 16.9                    |      |     | 13.6                    |     |     | 12.0                    |     |     |
| 22.0                                                                                 | 16.3                    |      |     | 16.3                    |      |     | 15.9                    |      |     | 13.6                    |     |     | 12.0                    |     |     |
| 24.0                                                                                 | 15.3                    | 10.9 |     | 15.3                    | 10.8 |     | 14.8                    |      |     | 13.6                    |     |     | 11.9                    |     |     |
| 26.0                                                                                 | 14.4                    | 10.4 |     | 14.5                    | 10.3 |     | 13.8                    | 10.1 |     | 12.9                    |     |     | 10.9                    |     |     |
| 28.0                                                                                 | 13.6                    | 10.0 |     | 13.7                    | 9.9  |     | 12.9                    | 9.7  |     | 12.1                    | 9.4 |     | 10.0                    |     |     |
| 30.0                                                                                 | 12.9                    | 9.6  |     | 13.0                    | 9.5  |     | 12.0                    | 9.3  |     | 11.4                    | 9.0 |     | 9.2                     | 6.7 |     |
| 32.0                                                                                 | 12.2                    | 9.2  | 7.5 | 12.3                    | 9.1  | 7.5 | 11.3                    | 9.0  |     | 10.6                    | 8.5 |     | 8.4                     | 6.3 |     |
| 34.0                                                                                 | 11.6                    | 8.8  | 7.3 | 11.8                    | 8.8  | 7.3 | 10.6                    | 8.7  | 7.1 | 10.0                    | 8.1 |     | 7.7                     | 5.9 |     |
| 36.0                                                                                 | 11.1                    | 8.5  | 7.1 | 11.2                    | 8.5  | 7.1 | 10.0                    | 8.3  | 6.9 | 9.4                     | 7.8 | 6.7 | 7.0                     | 5.5 |     |
| 38.0                                                                                 | 10.6                    | 8.2  | 6.9 | 10.7                    | 8.2  | 6.9 | 9.5                     | 8.0  | 6.8 | 8.9                     | 7.4 | 6.5 | 6.4                     | 5.2 | 4.4 |
| 40.0                                                                                 | 10.1                    | 7.9  | 6.8 | 10.3                    | 7.9  | 6.7 | 9.0                     | 7.7  | 6.6 | 8.4                     | 7.1 | 6.2 | 5.9                     | 4.9 | 4.2 |
| 42.0                                                                                 | 9.7                     | 7.7  | 6.6 | 9.9                     | 7.7  | 6.5 | 8.5                     | 7.4  | 6.4 | 7.9                     | 6.8 | 6.0 | 5.4                     | 4.6 | 4.0 |
| 44.0                                                                                 | 9.3                     | 7.4  | 6.4 | 9.5                     | 7.4  | 6.4 | 8.1                     | 7.1  | 6.2 | 7.5                     | 6.5 | 5.8 | 5.0                     | 4.3 | 3.8 |
| 46.0                                                                                 | 8.9                     | 7.2  | 6.3 | 9.1                     | 7.2  | 6.3 | 7.7                     | 6.8  | 6.0 | 7.1                     | 6.3 | 5.6 | 4.6                     | 4.1 | 3.6 |
| 48.0                                                                                 | 8.6                     | 7.0  | 6.2 | 8.8                     | 7.0  | 6.1 | 7.3                     | 6.5  | 5.9 | 6.6                     | 6.0 | 5.4 | 4.2                     | 3.9 | 3.4 |
| 50.0                                                                                 | 8.3                     | 6.8  | 6.1 | 8.5                     | 6.8  | 6.0 | 6.9                     | 6.3  | 5.7 | 6.2                     | 5.7 | 5.2 | 3.9                     | 3.6 | 3.3 |
| 54.0                                                                                 | 7.7                     | 6.5  | 5.9 | 7.9                     | 6.5  | 5.8 | 6.1                     | 5.6  | 5.3 | 5.4                     | 5.1 | 4.9 | 3.3                     | 3.2 | 3.0 |
| 58.0                                                                                 | 7.3                     | 6.2  | 5.8 | 7.5                     | 6.2  | 5.7 | 5.5                     | 5.0  | 4.8 | 4.7                     | 4.5 | 4.3 | 2.8                     | 2.7 | 2.7 |
| 62.0                                                                                 | 6.9                     | 6.0  | 5.7 | 6.7                     | 6.0  | 5.6 | 4.9                     | 4.5  | 4.3 | 4.1                     | 3.9 | 3.8 | 2.3                     | 2.3 | 2.4 |
| 66.0                                                                                 | 6.3                     | 5.9  |     | 6.0                     | 5.8  | 5.5 | 4.3                     | 4.1  | 4.0 | 3.6                     | 3.4 | 3.4 | 1.9                     | 1.9 | 2.0 |
| 70.0                                                                                 |                         |      |     | 5.1                     | 5.3  |     | 3.9                     | 3.7  | 3.6 | 3.1                     | 3.0 | 3.0 | 1.5                     | 1.6 | 1.7 |
| 74.0                                                                                 |                         |      |     | 2.0                     | 4.1  |     | 3.5                     | 3.3  |     | 2.7                     | 2.6 | 2.6 |                         |     |     |
| 78.0                                                                                 |                         |      |     |                         |      |     | 2.4                     | 3.1  |     | 2.3                     | 2.3 | 2.3 |                         |     |     |
| 82.0                                                                                 |                         |      |     |                         |      |     |                         |      |     | 2.0                     | 2.0 |     |                         |     |     |

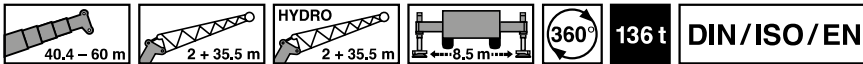
Operation · Einsatz · Utilisation  
Uso · Эксплуатация



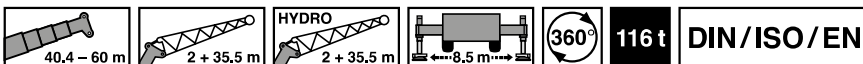
|  m | 40.4 m + 2.0 m + 29.5 m |      |     | 45.4 m + 2.0 m + 29.5 m |      |     | 50.5 m + 2.0 m + 29.5 m |      |     | 55.6 m + 2.0 m + 29.5 m |     |     | 60.0 m + 2.0 m + 29.5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 12.0                                                                               | 23.9                    |      |     |                         |      |     |                         |      |     |                         |     |     |                         |     |     |
| 14.0                                                                               | 21.9                    |      |     | 21.1                    |      |     |                         |      |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 20.2                    |      |     | 19.9                    |      |     | 16.9                    |      |     | 13.6                    |     |     |                         |     |     |
| 18.0                                                                               | 18.7                    |      |     | 18.5                    |      |     | 16.9                    |      |     | 13.6                    |     |     | 12.0                    |     |     |
| 20.0                                                                               | 17.5                    |      |     | 17.3                    |      |     | 16.9                    |      |     | 13.6                    |     |     | 12.0                    |     |     |
| 22.0                                                                               | 16.3                    |      |     | 16.3                    |      |     | 15.9                    |      |     | 13.6                    |     |     | 12.0                    |     |     |
| 24.0                                                                               | 15.3                    | 10.9 |     | 15.3                    | 10.8 |     | 14.8                    |      |     | 13.6                    |     |     | 11.9                    |     |     |
| 26.0                                                                               | 14.4                    | 10.4 |     | 14.5                    | 10.3 |     | 13.8                    | 10.1 |     | 12.9                    |     |     | 10.9                    |     |     |
| 28.0                                                                               | 13.6                    | 10.0 |     | 13.7                    | 9.9  |     | 12.9                    | 9.7  |     | 12.1                    | 9.4 |     | 10.0                    |     |     |
| 30.0                                                                               | 12.9                    | 9.6  |     | 13.0                    | 9.5  |     | 12.0                    | 9.3  |     | 11.4                    | 9.0 |     | 9.2                     | 6.7 |     |
| 32.0                                                                               | 12.2                    | 9.2  | 7.5 | 12.3                    | 9.1  | 7.5 | 11.3                    | 9.0  |     | 10.6                    | 8.5 |     | 8.4                     | 6.3 |     |
| 34.0                                                                               | 11.6                    | 8.8  | 7.3 | 11.8                    | 8.8  | 7.3 | 10.6                    | 8.7  | 7.1 | 10.0                    | 8.1 |     | 7.7                     | 5.9 |     |
| 36.0                                                                               | 11.1                    | 8.5  | 7.1 | 11.2                    | 8.5  | 7.1 | 10.0                    | 8.3  | 6.9 | 9.4                     | 7.8 | 6.7 | 7.0                     | 5.5 |     |
| 38.0                                                                               | 10.6                    | 8.2  | 6.9 | 10.7                    | 8.2  | 6.9 | 9.5                     | 8.0  | 6.8 | 8.9                     | 7.4 | 6.5 | 6.4                     | 5.2 | 4.4 |
| 40.0                                                                               | 10.1                    | 7.9  | 6.8 | 10.3                    | 7.9  | 6.7 | 9.0                     | 7.7  | 6.6 | 8.4                     | 7.1 | 6.2 | 5.9                     | 4.9 | 4.2 |
| 42.0                                                                               | 9.7                     | 7.7  | 6.6 | 9.9                     | 7.7  | 6.5 | 8.5                     | 7.4  | 6.4 | 7.9                     | 6.8 | 6.0 | 5.4                     | 4.6 | 4.0 |
| 44.0                                                                               | 9.3                     | 7.4  | 6.4 | 9.5                     | 7.4  | 6.4 | 8.1                     | 7.1  | 6.2 | 7.5                     | 6.5 | 5.8 | 5.0                     | 4.3 | 3.8 |
| 46.0                                                                               | 8.9                     | 7.2  | 6.3 | 9.1                     | 7.2  | 6.3 | 7.7                     | 6.8  | 6.0 | 7.1                     | 6.3 | 5.6 | 4.6                     | 4.1 | 3.6 |
| 48.0                                                                               | 8.6                     | 7.0  | 6.2 | 8.8                     | 7.0  | 6.1 | 7.3                     | 6.5  | 5.9 | 6.6                     | 6.0 | 5.4 | 4.2                     | 3.9 | 3.4 |
| 50.0                                                                               | 8.3                     | 6.8  | 6.1 | 8.5                     | 6.8  | 6.0 | 6.9                     | 6.3  | 5.7 | 6.2                     | 5.7 | 5.2 | 3.9                     | 3.6 | 3.3 |
| 54.0                                                                               | 7.7                     | 6.5  | 5.9 | 7.9                     | 6.5  | 5.8 | 6.1                     | 5.6  | 5.3 | 5.4                     | 5.1 | 4.9 | 3.3                     | 3.2 | 3.0 |
| 58.0                                                                               | 7.3                     | 6.2  | 5.8 | 7.5                     | 6.2  | 5.7 | 5.5                     | 5.0  | 4.8 | 4.7                     | 4.5 | 4.3 | 2.8                     | 2.7 | 2.7 |
| 62.0                                                                               | 6.9                     | 6.0  | 5.7 | 6.7                     | 6.0  | 5.6 | 4.9                     | 4.5  | 4.3 | 4.1                     | 3.9 | 3.8 | 2.3                     | 2.3 | 2.4 |
| 66.0                                                                               | 6.1                     | 5.9  |     | 6.0                     | 5.8  | 5.5 | 4.3                     | 4.1  | 4.0 | 3.6                     | 3.4 | 3.4 | 1.9                     | 1.9 | 2.0 |
| 70.0                                                                               |                         |      |     | 5.0                     | 5.3  |     | 3.9                     | 3.7  | 3.6 | 3.1                     | 3.0 | 3.0 | 1.5                     | 1.6 | 1.7 |
| 74.0                                                                               |                         |      |     | 2.0                     | 4.1  |     | 3.5                     | 3.3  |     | 2.7                     | 2.6 | 2.6 |                         |     |     |
| 78.0                                                                               |                         |      |     |                         |      |     | 2.4                     | 3.1  |     | 2.3                     | 2.3 | 2.3 |                         |     |     |
| 82.0                                                                               |                         |      |     |                         |      |     |                         |      |     | 2.0                     | 2.0 |     |                         |     |     |



|  m | 40.4 m + 2.0 m + 29.5 m |      |     | 45.4 m + 2.0 m + 29.5 m |      |     | 50.5 m + 2.0 m + 29.5 m |     |     | 55.6 m + 2.0 m + 29.5 m |     |     | 60.0 m + 2.0 m + 29.5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 12.0                                                                                 | 21.9                    |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |
| 14.0                                                                                 | 20.4                    |      |     | 18.9                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 19.0                    |      |     | 17.7                    |      |     | 14.8                    |     |     | 13.6                    |     |     |                         |     |     |
| 18.0                                                                                 | 17.8                    |      |     | 16.7                    |      |     | 13.7                    |     |     | 12.5                    |     |     | 11.9                    |     |     |
| 20.0                                                                                 | 16.7                    |      |     | 15.7                    |      |     | 12.7                    |     |     | 11.6                    |     |     | 11.0                    |     |     |
| 22.0                                                                                 | 15.8                    |      |     | 14.9                    |      |     | 11.9                    |     |     | 10.7                    |     |     | 10.2                    |     |     |
| 24.0                                                                                 | 14.9                    | 10.9 |     | 14.1                    | 10.8 |     | 11.1                    |     |     | 10.0                    |     |     | 9.6                     |     |     |
| 26.0                                                                                 | 14.1                    | 10.4 |     | 13.4                    | 10.3 |     | 10.5                    | 8.2 |     | 9.4                     |     |     | 9.0                     |     |     |
| 28.0                                                                                 | 13.4                    | 10.0 |     | 12.7                    | 9.9  |     | 9.9                     | 7.9 |     | 8.8                     | 7.2 |     | 8.4                     |     |     |
| 30.0                                                                                 | 12.8                    | 9.6  |     | 12.1                    | 9.5  |     | 9.3                     | 7.5 |     | 8.3                     | 6.9 |     | 7.9                     | 6.6 |     |
| 32.0                                                                                 | 12.2                    | 9.2  | 7.5 | 11.4                    | 9.1  | 7.5 | 8.8                     | 7.2 |     | 7.9                     | 6.6 |     | 7.5                     | 6.3 |     |
| 34.0                                                                                 | 11.6                    | 8.8  | 7.3 | 10.8                    | 8.8  | 7.3 | 8.3                     | 6.9 | 6.0 | 7.5                     | 6.3 |     | 7.1                     | 5.9 |     |
| 36.0                                                                                 | 11.1                    | 8.5  | 7.1 | 10.3                    | 8.5  | 7.1 | 7.9                     | 6.6 | 5.7 | 7.1                     | 6.0 | 5.3 | 6.7                     | 5.5 |     |
| 38.0                                                                                 | 10.6                    | 8.2  | 6.9 | 9.8                     | 8.2  | 6.9 | 7.5                     | 6.3 | 5.5 | 6.7                     | 5.7 | 5.1 | 6.4                     | 5.2 | 4.4 |
| 40.0                                                                                 | 10.1                    | 7.9  | 6.8 | 9.3                     | 7.9  | 6.7 | 7.1                     | 6.1 | 5.4 | 6.4                     | 5.5 | 4.9 | 5.9                     | 4.9 | 4.2 |
| 42.0                                                                                 | 9.7                     | 7.7  | 6.6 | 8.9                     | 7.7  | 6.5 | 6.8                     | 5.9 | 5.2 | 6.1                     | 5.2 | 4.7 | 5.4                     | 4.6 | 4.0 |
| 44.0                                                                                 | 9.3                     | 7.4  | 6.4 | 8.5                     | 7.4  | 6.4 | 6.4                     | 5.7 | 5.0 | 5.8                     | 5.0 | 4.6 | 5.0                     | 4.3 | 3.8 |
| 46.0                                                                                 | 8.9                     | 7.2  | 6.3 | 8.2                     | 7.2  | 6.3 | 6.1                     | 5.5 | 4.9 | 5.4                     | 4.8 | 4.4 | 4.6                     | 4.1 | 3.6 |
| 48.0                                                                                 | 8.6                     | 7.0  | 6.2 | 7.8                     | 7.0  | 6.1 | 5.9                     | 5.3 | 4.7 | 5.1                     | 4.7 | 4.2 | 4.2                     | 3.9 | 3.4 |
| 50.0                                                                                 | 8.3                     | 6.8  | 6.1 | 7.5                     | 6.8  | 6.0 | 5.5                     | 5.1 | 4.6 | 4.7                     | 4.4 | 4.1 | 3.9                     | 3.6 | 3.3 |
| 54.0                                                                                 | 7.4                     | 6.5  | 5.9 | 7.0                     | 6.3  | 5.8 | 4.9                     | 4.5 | 4.3 | 4.1                     | 3.9 | 3.8 | 3.3                     | 3.2 | 3.0 |
| 58.0                                                                                 | 6.1                     | 6.2  | 5.8 | 6.0                     | 5.9  | 5.6 | 4.4                     | 4.1 | 3.9 | 3.6                     | 3.4 | 3.3 | 2.8                     | 2.7 | 2.7 |
| 62.0                                                                                 | 5.0                     | 5.6  | 5.7 | 4.9                     | 5.5  | 5.2 | 4.0                     | 3.7 | 3.5 | 3.2                     | 3.0 | 2.9 | 2.3                     | 2.3 | 2.4 |
| 66.0                                                                                 | 4.1                     | 4.4  |     | 3.9                     | 4.5  | 4.7 | 3.6                     | 3.3 | 3.2 | 2.8                     | 2.6 | 2.6 | 1.9                     | 1.9 | 2.0 |
| 70.0                                                                                 |                         |      |     | 3.1                     | 3.5  |     | 3.1                     | 3.0 | 2.9 | 2.4                     | 2.3 | 2.3 | 1.5                     | 1.6 | 1.7 |
| 74.0                                                                                 |                         |      |     | 2.0                     | 2.5  |     | 2.4                     | 2.8 |     | 2.1                     | 2.0 | 2.0 |                         |     |     |
| 78.0                                                                                 |                         |      |     |                         |      |     | 1.7                     | 1.9 |     | 1.8                     | 1.7 | 1.7 |                         |     |     |
| 82.0                                                                                 |                         |      |     |                         |      |     |                         |     |     |                         | 1.5 |     |                         |     |     |



|  m | 40.4 m + 2.0 m + 35.5 m |     |     | 45.4 m + 2.0 m + 35.5 m |     |     | 50.5 m + 2.0 m + 35.5 m |     |     | 55.6 m + 2.0 m + 35.5 m |     |     | 60.0 m + 2.0 m + 35.5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 14.0                                                                               | 18.3                    |     |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 16.9                    |     |     | 16.7                    |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                               | 15.7                    |     |     | 15.5                    |     |     | 13.5                    |     |     | 11.0                    |     |     |                         |     |     |
| 20.0                                                                               | 14.6                    |     |     | 14.5                    |     |     | 13.5                    |     |     | 11.0                    |     |     | 9.7                     |     |     |
| 22.0                                                                               | 13.7                    |     |     | 13.6                    |     |     | 13.1                    |     |     | 11.0                    |     |     | 9.7                     |     |     |
| 24.0                                                                               | 12.8                    |     |     | 12.8                    |     |     | 12.4                    |     |     | 11.0                    |     |     | 9.7                     |     |     |
| 26.0                                                                               | 12.0                    | 8.5 |     | 12.0                    |     |     | 11.7                    |     |     | 11.0                    |     |     | 9.6                     |     |     |
| 28.0                                                                               | 11.3                    | 8.1 |     | 11.4                    | 8.1 |     | 11.1                    |     |     | 10.9                    |     |     | 8.8                     |     |     |
| 30.0                                                                               | 10.7                    | 7.8 |     | 10.8                    | 7.7 |     | 10.5                    | 7.5 |     | 10.3                    |     |     | 8.0                     |     |     |
| 32.0                                                                               | 10.1                    | 7.5 |     | 10.2                    | 7.4 |     | 10.0                    | 7.2 |     | 9.7                     | 7.1 |     | 7.4                     | 5.4 |     |
| 34.0                                                                               | 9.6                     | 7.1 |     | 9.7                     | 7.1 |     | 9.6                     | 7.0 |     | 9.1                     | 6.8 |     | 6.8                     | 5.0 |     |
| 36.0                                                                               | 9.1                     | 6.9 | 5.6 | 9.2                     | 6.8 |     | 9.1                     | 6.7 |     | 8.6                     | 6.6 |     | 6.3                     | 4.7 |     |
| 38.0                                                                               | 8.7                     | 6.6 | 5.4 | 8.8                     | 6.6 | 5.4 | 8.7                     | 6.5 |     | 8.2                     | 6.4 |     | 5.8                     | 4.4 |     |
| 40.0                                                                               | 8.3                     | 6.3 | 5.3 | 8.4                     | 6.3 | 5.2 | 8.3                     | 6.2 | 5.1 | 7.8                     | 6.1 |     | 5.3                     | 4.1 |     |
| 42.0                                                                               | 7.9                     | 6.1 | 5.1 | 8.1                     | 6.1 | 5.1 | 8.0                     | 6.0 | 5.0 | 7.3                     | 5.9 | 4.9 | 4.9                     | 3.9 | 3.3 |
| 44.0                                                                               | 7.6                     | 5.9 | 5.0 | 7.7                     | 5.9 | 4.9 | 7.6                     | 5.8 | 4.9 | 6.9                     | 5.7 | 4.8 | 4.5                     | 3.6 | 3.1 |
| 46.0                                                                               | 7.3                     | 5.7 | 4.8 | 7.4                     | 5.7 | 4.8 | 7.2                     | 5.6 | 4.7 | 6.4                     | 5.5 | 4.7 | 4.1                     | 3.4 | 2.9 |
| 48.0                                                                               | 7.0                     | 5.5 | 4.7 | 7.1                     | 5.5 | 4.7 | 6.9                     | 5.5 | 4.6 | 5.9                     | 5.3 | 4.5 | 3.7                     | 3.2 | 2.7 |
| 50.0                                                                               | 6.7                     | 5.3 | 4.6 | 6.8                     | 5.4 | 4.6 | 6.4                     | 5.3 | 4.5 | 5.5                     | 5.1 | 4.4 | 3.4                     | 3.0 | 2.6 |
| 54.0                                                                               | 6.2                     | 5.0 | 4.4 | 6.4                     | 5.0 | 4.4 | 5.7                     | 5.0 | 4.3 | 4.8                     | 4.5 | 4.0 | 2.8                     | 2.6 | 2.3 |
| 58.0                                                                               | 5.8                     | 4.8 | 4.3 | 5.9                     | 4.8 | 4.2 | 5.0                     | 4.6 | 4.1 | 4.1                     | 3.9 | 3.7 | 2.3                     | 2.3 | 2.0 |
| 62.0                                                                               | 5.4                     | 4.5 | 4.1 | 5.6                     | 4.5 | 4.1 | 4.4                     | 4.1 | 3.8 | 3.6                     | 3.4 | 3.3 | 1.9                     | 1.9 | 1.8 |
| 66.0                                                                               | 5.1                     | 4.3 | 4.1 | 5.2                     | 4.3 | 4.0 | 3.9                     | 3.6 | 3.4 | 3.0                     | 2.9 | 2.9 | 1.5                     | 1.6 | 1.6 |
| 70.0                                                                               | 4.8                     | 4.2 | 4.1 | 4.8                     | 4.2 | 3.9 | 3.4                     | 3.2 | 3.1 | 2.6                     | 2.5 | 2.5 |                         |     |     |
| 74.0                                                                               | 3.2                     | 4.2 |     | 4.3                     | 4.1 | 3.9 | 3.0                     | 2.8 | 2.8 | 2.2                     | 2.1 | 2.1 |                         |     |     |
| 78.0                                                                               |                         |     |     | 3.1                     | 3.8 |     | 2.6                     | 2.5 | 2.5 |                         |     |     |                         |     |     |
| 82.0                                                                               |                         |     |     |                         |     |     | 2.3                     | 2.2 |     |                         |     |     |                         |     |     |

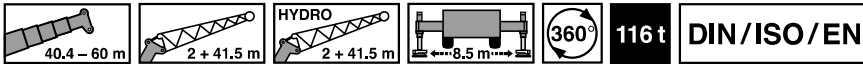


|  m | 40.4 m + 2.0 m + 35.5 m |     |     | 45.4 m + 2.0 m + 35.5 m |     |     | 50.5 m + 2.0 m + 35.5 m |     |     | 55.6 m + 2.0 m + 35.5 m |     |     | 60.0 m + 2.0 m + 35.5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 14.0                                                                                 | 18.3                    |     |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 16.9                    |     |     | 16.7                    |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                                 | 15.7                    |     |     | 15.5                    |     |     | 13.5                    |     |     | 11.0                    |     |     |                         |     |     |
| 20.0                                                                                 | 14.6                    |     |     | 14.5                    |     |     | 13.5                    |     |     | 11.0                    |     |     | 9.7                     |     |     |
| 22.0                                                                                 | 13.7                    |     |     | 13.6                    |     |     | 13.1                    |     |     | 11.0                    |     |     | 9.7                     |     |     |
| 24.0                                                                                 | 12.8                    |     |     | 12.8                    |     |     | 12.4                    |     |     | 11.0                    |     |     | 9.7                     |     |     |
| 26.0                                                                                 | 12.0                    | 8.5 |     | 12.0                    |     |     | 11.7                    |     |     | 11.0                    |     |     | 9.6                     |     |     |
| 28.0                                                                                 | 11.3                    | 8.1 |     | 11.4                    | 8.1 |     | 11.1                    |     |     | 10.9                    |     |     | 8.8                     |     |     |
| 30.0                                                                                 | 10.7                    | 7.8 |     | 10.8                    | 7.7 |     | 10.5                    | 7.5 |     | 10.3                    |     |     | 8.0                     |     |     |
| 32.0                                                                                 | 10.1                    | 7.5 |     | 10.2                    | 7.4 |     | 10.0                    | 7.2 |     | 9.7                     | 7.1 |     | 7.4                     | 5.4 |     |
| 34.0                                                                                 | 9.6                     | 7.1 |     | 9.7                     | 7.1 |     | 9.6                     | 7.0 |     | 9.1                     | 6.8 |     | 6.8                     | 5.0 |     |
| 36.0                                                                                 | 9.1                     | 6.9 | 5.6 | 9.2                     | 6.8 |     | 9.1                     | 6.7 |     | 8.6                     | 6.6 |     | 6.3                     | 4.7 |     |
| 38.0                                                                                 | 8.7                     | 6.6 | 5.4 | 8.8                     | 6.6 | 5.4 | 8.7                     | 6.5 |     | 8.2                     | 6.4 |     | 5.8                     | 4.4 |     |
| 40.0                                                                                 | 8.3                     | 6.3 | 5.3 | 8.4                     | 6.3 | 5.2 | 8.3                     | 6.2 | 5.1 | 7.8                     | 6.1 |     | 5.3                     | 4.1 |     |
| 42.0                                                                                 | 7.9                     | 6.1 | 5.1 | 8.1                     | 6.1 | 5.1 | 8.0                     | 6.0 | 5.0 | 7.3                     | 5.9 | 4.9 | 4.9                     | 3.9 | 3.3 |
| 44.0                                                                                 | 7.6                     | 5.9 | 5.0 | 7.7                     | 5.9 | 4.9 | 7.6                     | 5.8 | 4.9 | 6.9                     | 5.7 | 4.8 | 4.5                     | 3.6 | 3.1 |
| 46.0                                                                                 | 7.3                     | 5.7 | 4.8 | 7.4                     | 5.7 | 4.8 | 7.2                     | 5.6 | 4.7 | 6.4                     | 5.5 | 4.7 | 4.1                     | 3.4 | 2.9 |
| 48.0                                                                                 | 7.0                     | 5.5 | 4.7 | 7.1                     | 5.5 | 4.7 | 6.9                     | 5.5 | 4.6 | 5.9                     | 5.3 | 4.5 | 3.7                     | 3.2 | 2.7 |
| 50.0                                                                                 | 6.7                     | 5.3 | 4.6 | 6.8                     | 5.4 | 4.6 | 6.4                     | 5.3 | 4.5 | 5.5                     | 5.1 | 4.4 | 3.4                     | 3.0 | 2.6 |
| 54.0                                                                                 | 6.2                     | 5.0 | 4.4 | 6.4                     | 5.0 | 4.4 | 5.7                     | 5.0 | 4.3 | 4.8                     | 4.5 | 4.0 | 2.8                     | 2.6 | 2.3 |
| 58.0                                                                                 | 5.8                     | 4.8 | 4.3 | 5.9                     | 4.8 | 4.2 | 5.0                     | 4.6 | 4.1 | 4.1                     | 3.9 | 3.7 | 2.3                     | 2.3 | 2.0 |
| 62.0                                                                                 | 5.4                     | 4.5 | 4.1 | 5.6                     | 4.5 | 4.1 | 4.4                     | 4.1 | 3.8 | 3.6                     | 3.4 | 3.3 | 1.9                     | 1.9 | 1.8 |
| 66.0                                                                                 | 5.1                     | 4.3 | 4.1 | 5.2                     | 4.3 | 4.0 | 3.9                     | 3.6 | 3.4 | 3.0                     | 2.9 | 2.9 | 1.5                     | 1.6 | 1.6 |
| 70.0                                                                                 | 4.8                     | 4.2 | 4.1 | 4.8                     | 4.2 | 3.9 | 3.4                     | 3.2 | 3.1 | 2.6                     | 2.5 | 2.5 |                         |     |     |
| 74.0                                                                                 | 3.2                     | 4.2 |     | 4.3                     | 4.1 | 3.9 | 3.0                     | 2.8 | 2.8 | 2.2                     | 2.1 | 2.1 |                         |     |     |
| 78.0                                                                                 |                         |     |     | 3.1                     | 3.8 |     | 2.6                     | 2.5 | 2.5 |                         |     |     |                         |     |     |
| 82.0                                                                                 |                         |     |     |                         |     |     | 2.3                     | 2.2 |     |                         |     |     |                         |     |     |

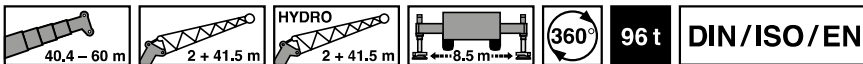




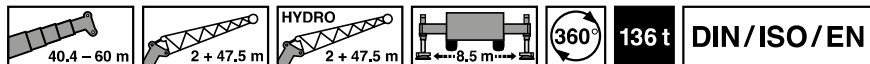
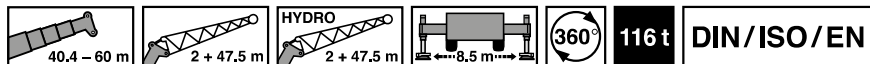




|  | 40.4 m + 2.0 m + 41.5 m |     |     | 45.4 m + 2.0 m + 41.5 m |     |     | 50.5 m + 2.0 m + 41.5 m |     |     | 55.6 m + 2.0 m + 41.5 m |     |     | 60.0 m + 2.0 m + 41.5 m |     |     |
|-----------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                   | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 16.0                                                                              | 14.3                    |     |     | 14.0                    |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                              | 13.2                    |     |     | 13.0                    |     |     | 11.6                    |     |     |                         |     |     |                         |     |     |
| 20.0                                                                              | 12.2                    |     |     | 12.1                    |     |     | 11.6                    |     |     | 9.4                     |     |     |                         |     |     |
| 22.0                                                                              | 11.4                    |     |     | 11.3                    |     |     | 11.1                    |     |     | 9.4                     |     |     | 8.2                     |     |     |
| 24.0                                                                              | 10.6                    |     |     | 10.6                    |     |     | 10.4                    |     |     | 9.4                     |     |     | 8.2                     |     |     |
| 26.0                                                                              | 10.0                    |     |     | 9.9                     |     |     | 9.8                     |     |     | 9.4                     |     |     | 8.2                     |     |     |
| 28.0                                                                              | 9.3                     |     |     | 9.3                     |     |     | 9.2                     |     |     | 9.3                     |     |     | 7.4                     |     |     |
| 30.0                                                                              | 8.8                     | 6.2 |     | 8.8                     |     |     | 8.7                     |     |     | 8.7                     |     |     | 6.8                     |     |     |
| 32.0                                                                              | 8.3                     | 5.9 |     | 8.3                     | 5.8 |     | 8.2                     |     |     | 8.2                     |     |     | 6.2                     |     |     |
| 34.0                                                                              | 7.8                     | 5.6 |     | 7.9                     | 5.6 |     | 7.8                     | 5.4 |     | 7.8                     |     |     | 5.6                     |     |     |
| 36.0                                                                              | 7.4                     | 5.4 |     | 7.5                     | 5.3 |     | 7.4                     | 5.2 |     | 7.4                     | 5.1 |     | 5.1                     | 3.7 |     |
| 38.0                                                                              | 7.0                     | 5.1 |     | 7.1                     | 5.1 |     | 7.0                     | 5.0 |     | 7.0                     | 4.9 |     | 4.7                     | 3.4 |     |
| 40.0                                                                              | 6.6                     | 4.9 |     | 6.7                     | 4.9 |     | 6.7                     | 4.8 |     | 6.7                     | 4.7 |     | 4.3                     | 3.1 |     |
| 42.0                                                                              | 6.3                     | 4.7 | 3.8 | 6.4                     | 4.7 |     | 6.4                     | 4.6 |     | 6.4                     | 4.5 |     | 3.9                     | 2.9 |     |
| 44.0                                                                              | 6.0                     | 4.5 | 3.6 | 6.1                     | 4.5 | 3.6 | 6.1                     | 4.4 |     | 5.9                     | 4.4 |     | 3.6                     | 2.7 |     |
| 46.0                                                                              | 5.7                     | 4.3 | 3.5 | 5.8                     | 4.3 | 3.5 | 5.8                     | 4.3 | 3.4 | 5.4                     | 4.2 |     | 3.3                     | 2.5 |     |
| 48.0                                                                              | 5.5                     | 4.1 | 3.4 | 5.6                     | 4.2 | 3.4 | 5.6                     | 4.1 | 3.3 | 5.0                     | 4.1 | 3.3 | 2.9                     | 2.3 | 1.9 |
| 50.0                                                                              | 5.2                     | 4.0 | 3.3 | 5.3                     | 4.0 | 3.3 | 5.4                     | 4.0 | 3.2 | 4.6                     | 3.9 | 3.2 | 2.6                     | 2.1 | 1.7 |
| 54.0                                                                              | 4.8                     | 3.7 | 3.0 | 4.9                     | 3.7 | 3.1 | 4.7                     | 3.7 | 3.0 | 3.8                     | 3.5 | 2.9 | 2.1                     | 1.7 |     |
| 58.0                                                                              | 4.4                     | 3.4 | 2.8 | 4.5                     | 3.5 | 2.9 | 4.0                     | 3.4 | 2.9 | 3.2                     | 3.0 | 2.6 | 1.6                     |     |     |
| 62.0                                                                              | 4.0                     | 3.2 | 2.7 | 4.2                     | 3.2 | 2.7 | 3.4                     | 3.1 | 2.7 | 2.7                     | 2.5 |     |                         |     |     |
| 66.0                                                                              | 3.7                     | 3.0 | 2.5 | 3.9                     | 3.0 | 2.5 | 2.9                     | 2.7 | 2.5 |                         |     |     |                         |     |     |
| 70.0                                                                              | 3.5                     | 2.8 | 2.4 | 3.6                     | 2.9 | 2.4 | 2.5                     | 2.3 | 2.2 |                         |     |     |                         |     |     |
| 74.0                                                                              | 3.2                     | 2.6 | 2.4 | 3.4                     | 2.7 | 2.3 |                         |     |     |                         |     |     |                         |     |     |
| 78.0                                                                              | 3.0                     | 2.5 |     | 3.0                     | 2.5 | 2.3 |                         |     |     |                         |     |     |                         |     |     |
| 82.0                                                                              |                         |     |     | 2.7                     | 2.4 | 2.3 |                         |     |     |                         |     |     |                         |     |     |

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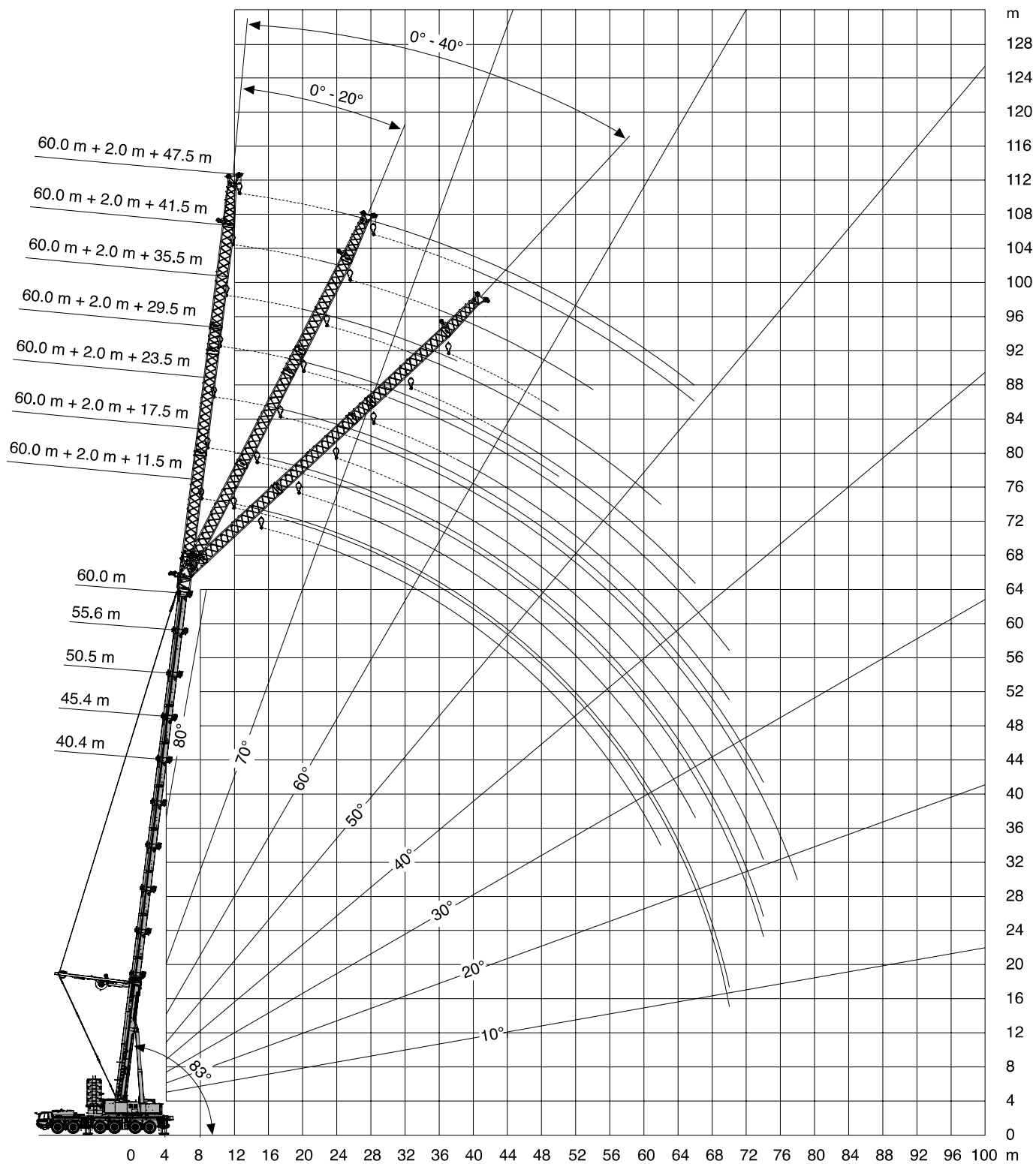
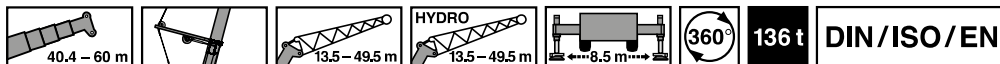
Uso · Эксплуатация

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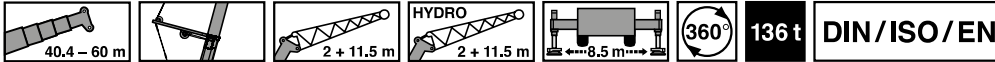
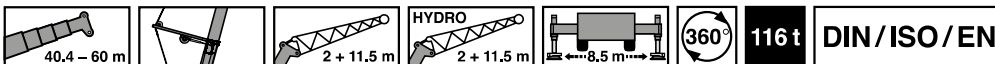
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона

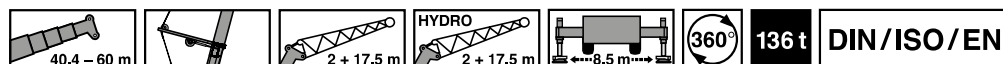
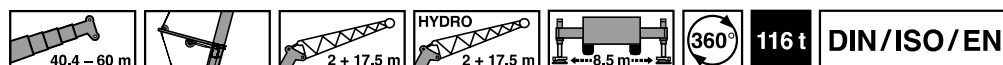


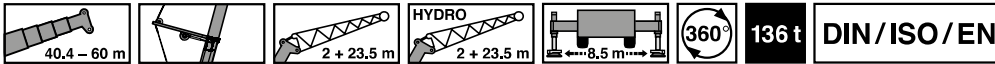
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

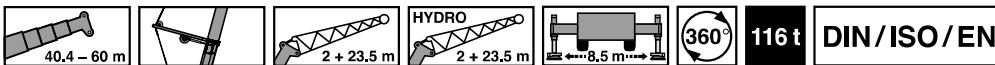
[illegible][illegible]

Uso · Эксплуатация

[illegible][illegible]

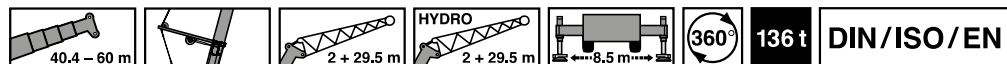


|  m | 40.4 m + 2.0 m + 23.5 m |      |      | 45.4 m + 2.0 m + 23.5 m |      |      | 50.5 m + 2.0 m + 23.5 m |      |      | 55.6 m + 2.0 m + 23.5 m |     |     | 60.0 m + 2.0 m + 23.5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40°  | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 11.0                                                                               | 29.8                    |      |      |                         |      |      |                         |      |      |                         |     |     |                         |     |     |
| 12.0                                                                               | 29.6                    |      |      |                         |      |      |                         |      |      |                         |     |     |                         |     |     |
| 14.0                                                                               | 29.1                    |      |      | 21.4                    |      |      | 16.6                    |      |      |                         |     |     |                         |     |     |
| 16.0                                                                               | 28.6                    |      |      | 21.4                    |      |      | 16.6                    |      |      | 12.7                    |     |     | 10.8                    |     |     |
| 18.0                                                                               | 28.1                    |      |      | 21.4                    |      |      | 16.6                    |      |      | 12.7                    |     |     | 10.4                    |     |     |
| 20.0                                                                               | 27.5                    | 20.7 |      | 21.4                    |      |      | 16.3                    |      |      | 12.7                    |     |     | 10.0                    |     |     |
| 22.0                                                                               | 26.2                    | 19.7 |      | 21.1                    | 17.8 |      | 15.2                    | 13.4 |      | 12.7                    |     |     | 9.6                     |     |     |
| 24.0                                                                               | 24.9                    | 18.9 |      | 20.1                    | 17.8 |      | 14.3                    | 13.3 |      | 12.6                    | 9.9 |     | 9.2                     |     |     |
| 26.0                                                                               | 23.7                    | 18.1 | 13.0 | 19.7                    | 17.6 |      | 13.8                    | 13.2 |      | 11.8                    | 9.7 |     | 8.8                     | 9.1 |     |
| 28.0                                                                               | 22.6                    | 17.3 | 12.6 | 19.7                    | 17.0 | 12.5 | 13.6                    | 13.2 |      | 11.1                    | 9.6 |     | 8.3                     | 8.7 |     |
| 30.0                                                                               | 21.5                    | 16.6 | 12.3 | 19.6                    | 16.5 | 12.3 | 13.3                    | 13.1 | 11.0 | 10.5                    | 9.5 | 8.2 | 7.9                     | 8.2 |     |
| 32.0                                                                               | 20.3                    | 15.9 | 12.0 | 19.6                    | 16.0 | 12.0 | 13.0                    | 13.0 | 11.0 | 10.0                    | 9.4 | 8.2 | 7.7                     | 7.7 | 6.8 |
| 34.0                                                                               | 19.1                    | 15.2 | 11.7 | 19.3                    | 15.4 | 11.7 | 12.6                    | 12.9 | 11.0 | 9.5                     | 9.2 | 8.2 | 7.6                     | 7.6 | 6.8 |
| 36.0                                                                               | 17.8                    | 14.6 | 11.4 | 18.1                    | 14.8 | 11.5 | 12.4                    | 12.8 | 11.0 | 9.0                     | 9.1 | 8.2 | 7.3                     | 7.4 | 6.8 |
| 38.0                                                                               | 16.5                    | 14.1 | 11.1 | 15.9                    | 14.3 | 11.2 | 12.2                    | 12.6 | 11.0 | 8.7                     | 9.0 | 8.2 | 7.1                     | 7.3 | 6.8 |
| 40.0                                                                               | 15.4                    | 13.6 | 11.0 | 14.6                    | 13.8 | 11.1 | 12.0                    | 12.5 | 10.9 | 8.5                     | 8.9 | 8.2 | 6.9                     | 7.2 | 6.8 |
| 42.0                                                                               | 14.4                    | 13.2 | 10.8 | 13.4                    | 13.1 | 10.9 | 11.7                    | 12.3 | 10.8 | 8.3                     | 8.8 | 8.2 | 6.8                     | 7.1 | 6.7 |
| 44.0                                                                               | 13.5                    | 12.7 | 10.6 | 12.6                    | 12.3 | 10.7 | 11.4                    | 11.7 | 10.6 | 8.1                     | 8.6 | 8.2 | 6.6                     | 6.9 | 6.6 |
| 46.0                                                                               | 12.7                    | 12.1 | 10.5 | 11.9                    | 11.6 | 10.5 | 11.2                    | 11.0 | 10.5 | 7.9                     | 8.4 | 8.1 | 6.4                     | 6.8 | 6.5 |
| 48.0                                                                               | 11.9                    | 11.4 | 10.4 | 11.2                    | 10.9 | 10.4 | 10.8                    | 10.4 | 10.1 | 7.7                     | 8.2 | 8.0 | 6.2                     | 6.6 | 6.4 |
| 50.0                                                                               | 11.1                    | 10.7 | 10.3 | 10.5                    | 10.3 | 10.3 | 10.1                    | 9.7  | 9.7  | 7.4                     | 8.1 | 7.9 | 6.0                     | 6.5 | 6.3 |
| 54.0                                                                               | 9.9                     | 9.4  | 8.6  | 9.3                     | 9.2  | 9.1  | 8.9                     | 8.8  | 8.6  | 7.1                     | 7.8 | 7.7 | 5.7                     | 6.1 | 6.1 |
| 58.0                                                                               | 8.8                     | 8.5  | 7.7  | 8.2                     | 8.1  | 7.1  | 7.9                     | 7.7  | 7.8  | 6.7                     | 7.4 | 7.5 | 5.4                     | 5.8 | 5.9 |
| 62.0                                                                               | 4.7                     | 6.8  |      | 7.3                     | 7.3  | 6.3  | 7.0                     | 6.9  | 5.6  | 6.4                     | 6.7 | 6.7 | 5.0                     | 5.6 | 5.7 |
| 66.0                                                                               |                         |      |      | 4.6                     | 5.6  |      | 6.3                     | 6.2  | 5.3  | 6.2                     | 5.9 | 4.3 | 4.7                     | 5.3 | 2.6 |
| 70.0                                                                               |                         |      |      |                         |      |      | 4.3                     | 4.7  |      | 5.5                     | 5.3 | 4.1 | 4.5                     | 5.1 | 2.3 |
| 74.0                                                                               |                         |      |      |                         |      |      |                         |      |      | 4.0                     | 3.9 |     | 4.3                     | 4.6 | 1.9 |
| 78.0                                                                               |                         |      |      |                         |      |      |                         |      |      |                         | 2.2 |     | 3.1                     | 1.6 |     |

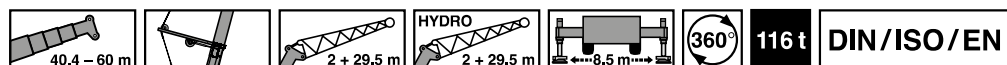


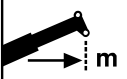
|  m | 40.4 m + 2.0 m + 23.5 m |      |      | 45.4 m + 2.0 m + 23.5 m |      |      | 50.5 m + 2.0 m + 23.5 m |      |      | 55.6 m + 2.0 m + 23.5 m |     |     | 60.0 m + 2.0 m + 23.5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40°  | 0°                      | 20°  | 40°  | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 11.0                                                                                 | 29.8                    |      |      |                         |      |      |                         |      |      |                         |     |     |                         |     |     |
| 12.0                                                                                 | 29.6                    |      |      |                         |      |      |                         |      |      |                         |     |     |                         |     |     |
| 14.0                                                                                 | 29.1                    |      |      | 21.4                    |      |      | 16.6                    |      |      |                         |     |     |                         |     |     |
| 16.0                                                                                 | 28.6                    |      |      | 21.4                    |      |      | 16.6                    |      |      | 12.7                    |     |     | 10.8                    |     |     |
| 18.0                                                                                 | 28.1                    |      |      | 21.4                    |      |      | 16.6                    |      |      | 12.7                    |     |     | 10.4                    |     |     |
| 20.0                                                                                 | 27.5                    | 20.7 |      | 21.4                    |      |      | 16.3                    |      |      | 12.7                    |     |     | 10.0                    |     |     |
| 22.0                                                                                 | 26.2                    | 19.7 |      | 21.1                    | 17.8 |      | 15.2                    | 13.4 |      | 12.7                    |     |     | 9.6                     |     |     |
| 24.0                                                                                 | 24.9                    | 18.9 |      | 20.1                    | 17.8 |      | 14.3                    | 13.3 |      | 12.6                    | 9.9 |     | 9.2                     |     |     |
| 26.0                                                                                 | 23.7                    | 18.1 | 13.0 | 19.7                    | 17.6 |      | 13.8                    | 13.2 |      | 11.8                    | 9.7 |     | 8.8                     | 9.1 |     |
| 28.0                                                                                 | 22.6                    | 17.3 | 12.6 | 19.7                    | 17.0 | 12.5 | 13.6                    | 13.2 |      | 11.1                    | 9.6 |     | 8.3                     | 8.7 |     |
| 30.0                                                                                 | 21.5                    | 16.6 | 12.3 | 19.6                    | 16.5 | 12.3 | 13.3                    | 13.1 | 11.0 | 10.5                    | 9.5 | 8.2 | 7.9                     | 8.2 |     |
| 32.0                                                                                 | 20.3                    | 15.9 | 12.0 | 19.6                    | 16.0 | 12.0 | 13.0                    | 13.0 | 11.0 | 10.0                    | 9.4 | 8.2 | 7.7                     | 7.7 | 6.8 |
| 34.0                                                                                 | 19.1                    | 15.2 | 11.7 | 19.3                    | 15.4 | 11.7 | 12.6                    | 12.9 | 11.0 | 9.5                     | 9.2 | 8.2 | 7.6                     | 7.6 | 6.8 |
| 36.0                                                                                 | 17.8                    | 14.6 | 11.4 | 18.1                    | 14.8 | 11.5 | 12.4                    | 12.8 | 11.0 | 9.0                     | 9.1 | 8.2 | 7.3                     | 7.4 | 6.8 |
| 38.0                                                                                 | 16.5                    | 14.1 | 11.1 | 15.9                    | 14.3 | 11.2 | 12.2                    | 12.6 | 11.0 | 8.7                     | 9.0 | 8.2 | 7.1                     | 7.3 | 6.8 |
| 40.0                                                                                 | 15.4                    | 13.6 | 11.0 | 14.6                    | 13.8 | 11.1 | 12.0                    | 12.5 | 10.9 | 8.5                     | 8.9 | 8.2 | 6.9                     | 7.2 | 6.8 |
| 42.0                                                                                 | 14.4                    | 13.2 | 10.8 | 13.4                    | 13.1 | 10.9 | 11.7                    | 12.3 | 10.8 | 8.3                     | 8.8 | 8.2 | 6.8                     | 7.1 | 6.7 |
| 44.0                                                                                 | 13.5                    | 12.7 | 10.6 | 12.6                    | 12.3 | 10.7 | 11.4                    | 11.7 | 10.6 | 8.1                     | 8.6 | 8.2 | 6.6                     | 6.9 | 6.6 |
| 46.0                                                                                 | 12.7                    | 12.1 | 10.5 | 11.9                    | 11.6 | 10.5 | 11.2                    | 11.0 | 10.5 | 7.9                     | 8.4 | 8.1 | 6.4                     | 6.8 | 6.5 |
| 48.0                                                                                 | 11.9                    | 11.4 | 10.4 | 11.2                    | 10.9 | 10.4 | 10.8                    | 10.4 | 10.1 | 7.7                     | 8.2 | 8.0 | 6.2                     | 6.6 | 6.4 |
| 50.0                                                                                 | 11.1                    | 10.7 | 10.3 | 10.5                    | 10.3 | 10.3 | 10.1                    | 9.7  | 9.7  | 7.4                     | 8.1 | 7.9 | 6.0                     | 6.5 | 6.3 |
| 54.0                                                                                 | 9.3                     | 9.4  | 8.6  | 9.3                     | 9.2  | 9.1  | 8.9                     | 8.8  | 8.6  | 7.1                     | 7.8 | 7.7 | 5.7                     | 6.1 | 6.1 |
| 58.0                                                                                 | 7.7                     | 8.3  | 7.7  | 7.7                     | 8.1  | 7.1  | 7.9                     | 7.7  | 7.8  | 6.7                     | 7.4 | 7.5 | 5.4                     | 5.8 | 5.9 |
| 62.0                                                                                 | 4.7                     | 6.7  |      | 6.4                     | 6.9  | 6.3  | 6.6                     | 6.9  | 5.6  | 6.4                     | 6.7 | 6.7 | 5.0                     | 5.6 | 5.7 |
| 66.0                                                                                 |                         |      |      | 4.6                     | 5.5  |      | 5.4                     | 5.9  | 5.3  | 5.6                     | 5.9 | 4.3 | 4.7                     | 5.3 | 2.6 |
| 70.0                                                                                 |                         |      |      |                         |      |      | 4.3                     | 4.7  |      | 4.5                     | 5.0 | 4.1 | 4.3                     | 4.9 | 2.3 |
| 74.0                                                                                 |                         |      |      |                         |      |      |                         |      |      | 3.6                     | 3.9 |     | 3.4                     | 3.9 | 1.9 |
| 78.0                                                                                 |                         |      |      |                         |      |      |                         |      |      |                         | 2.2 |     | 2.6                     | 1.6 |     |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

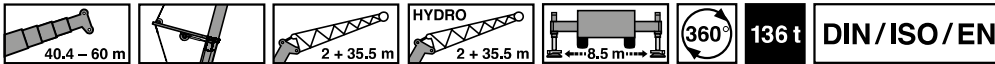


|  m | 40.4 m + 2.0 m + 29.5 m |      |     | 45.4 m + 2.0 m + 29.5 m |      |     | 50.5 m + 2.0 m + 29.5 m |      |     | 55.6 m + 2.0 m + 29.5 m |     |     | 60.0 m + 2.0 m + 29.5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 12.0                                                                               | 22.7                    |      |     |                         |      |     |                         |      |     |                         |     |     |                         |     |     |
| 14.0                                                                               | 22.6                    |      |     | 16.1                    |      |     |                         |      |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 22.5                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.7                     |     |     |                         |     |     |
| 18.0                                                                               | 22.3                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.6                     |     |     | 8.0                     |     |     |
| 20.0                                                                               | 22.2                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.6                     |     |     | 7.9                     |     |     |
| 22.0                                                                               | 22.0                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.6                     |     |     | 7.8                     |     |     |
| 24.0                                                                               | 20.7                    | 15.5 |     | 16.1                    | 14.0 |     | 12.4                    |      |     | 8.6                     |     |     | 7.6                     |     |     |
| 26.0                                                                               | 19.4                    | 14.7 |     | 15.7                    | 13.9 |     | 11.9                    | 10.3 |     | 8.6                     |     |     | 7.5                     |     |     |
| 28.0                                                                               | 18.4                    | 14.0 |     | 15.3                    | 13.8 |     | 11.3                    | 10.3 |     | 8.4                     | 8.1 |     | 7.3                     |     |     |
| 30.0                                                                               | 17.4                    | 13.4 |     | 14.9                    | 13.4 |     | 11.1                    | 10.3 |     | 8.3                     | 7.7 |     | 7.1                     | 6.9 |     |
| 32.0                                                                               | 16.6                    | 12.8 | 9.5 | 14.5                    | 12.9 | 9.4 | 11.0                    | 10.3 |     | 8.1                     | 7.3 |     | 7.0                     | 6.9 |     |
| 34.0                                                                               | 15.9                    | 12.2 | 9.1 | 14.4                    | 12.3 | 9.2 | 10.9                    | 10.2 | 8.0 | 7.9                     | 7.2 |     | 6.8                     | 6.8 |     |
| 36.0                                                                               | 15.2                    | 11.7 | 8.9 | 14.2                    | 11.8 | 8.9 | 10.7                    | 10.1 | 8.0 | 7.7                     | 7.1 | 6.0 | 6.6                     | 6.7 |     |
| 38.0                                                                               | 14.6                    | 11.3 | 8.7 | 13.7                    | 11.4 | 8.7 | 10.6                    | 10.1 | 8.0 | 7.5                     | 7.1 | 6.0 | 6.5                     | 6.6 | 5.9 |
| 40.0                                                                               | 13.9                    | 10.8 | 8.5 | 13.2                    | 11.0 | 8.6 | 10.4                    | 10.0 | 8.0 | 7.3                     | 7.0 | 6.0 | 6.3                     | 6.5 | 5.8 |
| 42.0                                                                               | 13.2                    | 10.4 | 8.3 | 12.7                    | 10.6 | 8.4 | 10.3                    | 9.9  | 8.0 | 7.1                     | 6.9 | 6.0 | 6.2                     | 6.4 | 5.8 |
| 44.0                                                                               | 12.5                    | 10.1 | 8.1 | 11.9                    | 10.2 | 8.2 | 10.1                    | 9.8  | 8.0 | 6.8                     | 6.8 | 6.0 | 6.0                     | 6.3 | 5.8 |
| 46.0                                                                               | 11.7                    | 9.7  | 8.0 | 11.2                    | 9.9  | 8.1 | 9.9                     | 9.6  | 8.0 | 6.5                     | 6.7 | 6.0 | 5.8                     | 6.1 | 5.7 |
| 48.0                                                                               | 11.0                    | 9.4  | 7.8 | 10.5                    | 9.6  | 7.9 | 9.7                     | 9.5  | 7.8 | 6.2                     | 6.6 | 6.0 | 5.6                     | 6.0 | 5.7 |
| 50.0                                                                               | 10.3                    | 9.1  | 7.7 | 9.7                     | 9.3  | 7.7 | 9.6                     | 9.2  | 7.7 | 5.9                     | 6.4 | 5.9 | 5.4                     | 5.8 | 5.6 |
| 54.0                                                                               | 9.1                     | 8.6  | 7.5 | 8.7                     | 8.6  | 7.5 | 9.5                     | 8.2  | 7.5 | 5.6                     | 6.1 | 5.8 | 5.0                     | 5.6 | 5.4 |
| 58.0                                                                               | 8.1                     | 8.0  | 6.1 | 7.7                     | 7.6  | 7.3 | 7.8                     | 7.2  | 7.1 | 5.3                     | 5.9 | 5.7 | 4.8                     | 5.2 | 5.2 |
| 62.0                                                                               | 7.3                     | 7.2  | 6.1 | 6.7                     | 6.7  | 5.6 | 6.5                     | 6.5  | 6.4 | 5.0                     | 5.6 | 5.5 | 4.5                     | 4.9 | 5.0 |
| 66.0                                                                               | 5.3                     | 5.4  |     | 6.0                     | 6.0  | 4.9 | 5.7                     | 5.8  | 4.1 | 4.7                     | 5.4 | 5.4 | 4.1                     | 4.7 | 4.8 |
| 70.0                                                                               |                         |      |     | 4.7                     | 5.4  |     | 5.1                     | 5.1  | 4.0 | 4.4                     | 4.9 | 3.0 | 3.9                     | 4.5 | 4.6 |
| 74.0                                                                               |                         |      |     |                         | 3.0  |     | 4.2                     | 4.5  |     | 4.3                     | 4.3 | 2.8 | 3.6                     | 4.1 |     |
| 78.0                                                                               |                         |      |     |                         |      |     |                         | 3.0  |     | 3.8                     | 3.7 | 2.7 | 3.4                     | 3.6 |     |
| 82.0                                                                               |                         |      |     |                         |      |     |                         |      |     | 1.8                     | 2.4 |     | 3.0                     | 3.1 |     |

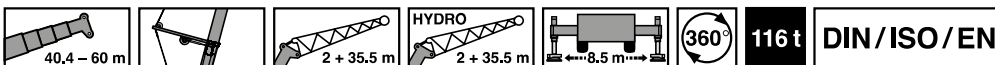


|  m | 40.4 m + 2.0 m + 29.5 m |      |     | 45.4 m + 2.0 m + 29.5 m |      |     | 50.5 m + 2.0 m + 29.5 m |      |     | 55.6 m + 2.0 m + 29.5 m |     |     | 60.0 m + 2.0 m + 29.5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 12.0                                                                                 | 22.7                    |      |     |                         |      |     |                         |      |     |                         |     |     |                         |     |     |
| 14.0                                                                                 | 22.6                    |      |     | 16.1                    |      |     |                         |      |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 22.5                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.7                     |     |     |                         |     |     |
| 18.0                                                                                 | 22.3                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.6                     |     |     | 8.0                     |     |     |
| 20.0                                                                                 | 22.2                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.6                     |     |     | 7.9                     |     |     |
| 22.0                                                                                 | 22.0                    |      |     | 16.1                    |      |     | 12.4                    |      |     | 8.6                     |     |     | 7.8                     |     |     |
| 24.0                                                                                 | 20.7                    | 15.5 |     | 16.1                    | 14.0 |     | 12.4                    |      |     | 8.6                     |     |     | 7.6                     |     |     |
| 26.0                                                                                 | 19.4                    | 14.7 |     | 15.7                    | 13.9 |     | 11.9                    | 10.3 |     | 8.6                     |     |     | 7.5                     |     |     |
| 28.0                                                                                 | 18.4                    | 14.0 |     | 15.3                    | 13.8 |     | 11.3                    | 10.3 |     | 8.4                     | 8.1 |     | 7.3                     |     |     |
| 30.0                                                                                 | 17.4                    | 13.4 |     | 14.9                    | 13.4 |     | 11.1                    | 10.3 |     | 8.3                     | 7.7 |     | 7.1                     | 6.9 |     |
| 32.0                                                                                 | 16.6                    | 12.8 | 9.5 | 14.5                    | 12.9 | 9.4 | 11.0                    | 10.3 |     | 8.1                     | 7.3 |     | 7.0                     | 6.9 |     |
| 34.0                                                                                 | 15.9                    | 12.2 | 9.1 | 14.4                    | 12.3 | 9.2 | 10.9                    | 10.2 | 8.0 | 7.9                     | 7.2 |     | 6.8                     | 6.8 |     |
| 36.0                                                                                 | 15.2                    | 11.7 | 8.9 | 14.2                    | 11.8 | 8.9 | 10.7                    | 10.1 | 8.0 | 7.7                     | 7.1 | 6.0 | 6.6                     | 6.7 |     |
| 38.0                                                                                 | 14.6                    | 11.3 | 8.7 | 13.7                    | 11.4 | 8.7 | 10.6                    | 10.1 | 8.0 | 7.5                     | 7.1 | 6.0 | 6.5                     | 6.6 | 5.9 |
| 40.0                                                                                 | 13.9                    | 10.8 | 8.5 | 13.2                    | 11.0 | 8.6 | 10.4                    | 10.0 | 8.0 | 7.3                     | 7.0 | 6.0 | 6.3                     | 6.5 | 5.8 |
| 42.0                                                                                 | 13.2                    | 10.4 | 8.3 | 12.7                    | 10.6 | 8.4 | 10.3                    | 9.9  | 8.0 | 7.1                     | 6.9 | 6.0 | 6.2                     | 6.4 | 5.8 |
| 44.0                                                                                 | 12.5                    | 10.1 | 8.1 | 11.9                    | 10.2 | 8.2 | 10.1                    | 9.8  | 8.0 | 6.8                     | 6.8 | 6.0 | 6.0                     | 6.3 | 5.8 |
| 46.0                                                                                 | 11.7                    | 9.7  | 8.0 | 11.2                    | 9.9  | 8.1 | 9.9                     | 9.6  | 8.0 | 6.5                     | 6.7 | 6.0 | 5.8                     | 6.1 | 5.7 |
| 48.0                                                                                 | 11.0                    | 9.4  | 7.8 | 10.5                    | 9.6  | 7.9 | 9.7                     | 9.5  | 7.8 | 6.2                     | 6.6 | 6.0 | 5.6                     | 6.0 | 5.7 |
| 50.0                                                                                 | 10.3                    | 9.1  | 7.7 | 9.7                     | 9.3  | 7.7 | 9.6                     | 9.2  | 7.7 | 5.9                     | 6.4 | 5.9 | 5.4                     | 5.8 | 5.6 |
| 54.0                                                                                 | 9.1                     | 8.6  | 7.5 | 8.7                     | 8.6  | 7.5 | 9.5                     | 8.2  | 7.5 | 5.6                     | 6.1 | 5.8 | 5.0                     | 5.6 | 5.4 |
| 58.0                                                                                 | 8.0                     | 8.0  | 6.1 | 7.7                     | 7.6  | 7.3 | 7.8                     | 7.2  | 7.1 | 5.3                     | 5.9 | 5.7 | 4.8                     | 5.2 | 5.2 |
| 62.0                                                                                 | 6.6                     | 7.2  | 6.1 | 6.6                     | 6.7  | 5.6 | 6.5                     | 6.5  | 6.4 | 5.0                     | 5.6 | 5.5 | 4.5                     | 4.9 | 5.0 |
| 66.0                                                                                 | 5.3                     | 5.4  |     | 5.4                     | 6.0  | 4.9 | 5.5                     | 5.8  | 4.1 | 4.7                     | 5.4 | 5.4 | 4.1                     | 4.7 | 4.8 |
| 70.0                                                                                 |                         |      |     | 4.4                     | 4.8  |     | 4.5                     | 5.1  | 4.0 | 4.4                     | 4.9 | 3.0 | 3.9                     | 4.5 | 4.6 |
| 74.0                                                                                 |                         |      |     |                         | 3.0  |     | 3.6                     | 4.0  |     | 3.8                     | 4.3 | 2.8 | 3.6                     | 4.1 |     |
| 78.0                                                                                 |                         |      |     |                         |      |     |                         | 3.0  |     | 3.0                     | 3.4 | 2.7 | 2.8                     | 3.3 |     |
| 82.0                                                                                 |                         |      |     |                         |      |     |                         |      |     | 1.8                     | 2.4 |     | 2.0                     | 2.5 |     |



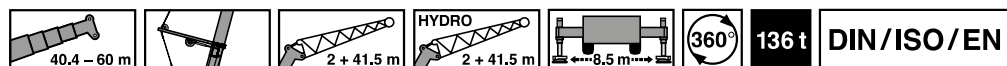


|  m | 40.4 m + 2.0 m + 35.5 m |      |     | 45.4 m + 2.0 m + 35.5 m |      |     | 50.5 m + 2.0 m + 35.5 m |     |     | 55.6 m + 2.0 m + 35.5 m |     |     | 60.0 m + 2.0 m + 35.5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 14.0                                                                               | 18.4                    |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 18.4                    |      |     | 13.0                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                               | 18.2                    |      |     | 13.0                    |      |     | 9.7                     |     |     | 6.6                     |     |     |                         |     |     |
| 20.0                                                                               | 18.1                    |      |     | 13.0                    |      |     | 9.5                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 22.0                                                                               | 18.1                    |      |     | 13.0                    |      |     | 9.4                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 24.0                                                                               | 18.1                    |      |     | 13.0                    |      |     | 9.3                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 26.0                                                                               | 17.1                    | 12.5 |     | 12.9                    |      |     | 9.1                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 28.0                                                                               | 16.1                    | 11.9 |     | 12.7                    | 11.0 |     | 9.0                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 30.0                                                                               | 15.3                    | 11.3 |     | 12.5                    | 11.0 |     | 8.9                     | 8.0 |     | 6.6                     |     |     | 5.7                     |     |     |
| 32.0                                                                               | 14.4                    | 10.8 |     | 12.1                    | 10.8 |     | 8.8                     | 8.0 |     | 6.6                     | 6.7 |     | 5.6                     | 5.4 |     |
| 34.0                                                                               | 13.8                    | 10.3 |     | 11.8                    | 10.3 |     | 8.8                     | 8.0 |     | 6.6                     | 6.6 |     | 5.5                     | 5.4 |     |
| 36.0                                                                               | 13.1                    | 9.8  | 7.3 | 11.7                    | 9.9  |     | 8.5                     | 8.0 |     | 6.6                     | 6.6 |     | 5.4                     | 5.3 |     |
| 38.0                                                                               | 12.5                    | 9.4  | 7.1 | 11.6                    | 9.5  | 7.1 | 8.3                     | 8.0 |     | 6.5                     | 6.5 |     | 5.2                     | 5.3 |     |
| 40.0                                                                               | 11.8                    | 9.0  | 6.9 | 11.4                    | 9.1  | 6.9 | 8.1                     | 8.0 | 5.9 | 6.4                     | 6.5 |     | 5.1                     | 5.2 |     |
| 42.0                                                                               | 11.2                    | 8.7  | 6.8 | 11.1                    | 8.8  | 6.8 | 7.9                     | 7.9 | 5.9 | 6.2                     | 6.4 | 5.3 | 5.0                     | 5.1 | 4.3 |
| 44.0                                                                               | 10.6                    | 8.3  | 6.6 | 10.7                    | 8.4  | 6.6 | 7.7                     | 7.9 | 5.9 | 6.0                     | 6.4 | 5.2 | 4.9                     | 5.0 | 4.3 |
| 46.0                                                                               | 10.1                    | 8.0  | 6.4 | 10.3                    | 8.1  | 6.5 | 7.6                     | 7.8 | 5.9 | 5.9                     | 6.2 | 5.2 | 4.7                     | 4.9 | 4.3 |
| 48.0                                                                               | 9.7                     | 7.7  | 6.2 | 9.9                     | 7.8  | 6.3 | 7.4                     | 7.7 | 5.9 | 5.7                     | 6.0 | 5.2 | 4.6                     | 4.8 | 4.3 |
| 50.0                                                                               | 9.2                     | 7.5  | 6.1 | 9.5                     | 7.6  | 6.2 | 7.2                     | 7.5 | 5.9 | 5.5                     | 5.9 | 5.2 | 4.4                     | 4.7 | 4.2 |
| 54.0                                                                               | 8.4                     | 7.0  | 5.9 | 8.3                     | 7.1  | 5.9 | 6.8                     | 7.3 | 5.9 | 5.2                     | 5.7 | 5.1 | 4.1                     | 4.4 | 4.0 |
| 58.0                                                                               | 7.8                     | 6.6  | 5.6 | 7.3                     | 6.7  | 5.7 | 6.5                     | 6.9 | 5.7 | 4.8                     | 5.4 | 5.0 | 3.7                     | 4.2 | 3.9 |
| 62.0                                                                               | 6.9                     | 6.2  | 5.5 | 6.5                     | 6.3  | 5.4 | 6.2                     | 6.1 | 5.5 | 4.6                     | 5.2 | 4.9 | 3.5                     | 4.0 | 3.8 |
| 66.0                                                                               | 6.1                     | 5.9  | 4.3 | 5.8                     | 5.8  | 5.3 | 5.5                     | 5.4 | 5.3 | 4.4                     | 4.9 | 4.8 | 3.2                     | 3.8 | 3.7 |
| 70.0                                                                               | 5.3                     | 5.4  | 4.3 | 5.0                     | 5.0  | 3.9 | 4.7                     | 4.8 | 4.8 | 4.1                     | 4.5 | 4.5 | 3.0                     | 3.5 | 3.6 |
| 74.0                                                                               | 2.2                     | 3.9  |     | 4.5                     | 4.5  | 3.4 | 4.2                     | 4.3 | 2.9 | 3.8                     | 3.9 | 2.0 | 2.8                     | 3.3 | 3.6 |
| 78.0                                                                               |                         |      |     | 2.1                     | 2.9  |     | 3.7                     | 3.7 | 2.7 | 3.6                     | 3.4 | 1.8 | 2.7                     | 3.1 |     |
| 82.0                                                                               |                         |      |     |                         |      |     | 2.2                     | 2.3 |     | 3.1                     | 3.0 | 1.7 | 2.5                     | 2.8 |     |
| 86.0                                                                               |                         |      |     |                         |      |     |                         |     |     | 2.0                     | 1.6 |     | 2.3                     | 2.5 |     |

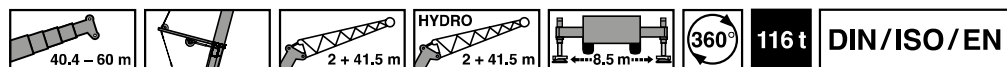


|  m | 40.4 m + 2.0 m + 35.5 m |      |     | 45.4 m + 2.0 m + 35.5 m |      |     | 50.5 m + 2.0 m + 35.5 m |     |     | 55.6 m + 2.0 m + 35.5 m |     |     | 60.0 m + 2.0 m + 35.5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20°  | 40° | 0°                      | 20°  | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 14.0                                                                                 | 18.4                    |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 18.4                    |      |     | 13.0                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                                 | 18.2                    |      |     | 13.0                    |      |     | 9.7                     |     |     | 6.6                     |     |     |                         |     |     |
| 20.0                                                                                 | 18.1                    |      |     | 13.0                    |      |     | 9.5                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 22.0                                                                                 | 18.1                    |      |     | 13.0                    |      |     | 9.4                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 24.0                                                                                 | 18.1                    |      |     | 13.0                    |      |     | 9.3                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 26.0                                                                                 | 17.1                    | 12.5 |     | 12.9                    |      |     | 9.1                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 28.0                                                                                 | 16.1                    | 11.9 |     | 12.7                    | 11.0 |     | 9.0                     |     |     | 6.6                     |     |     | 5.7                     |     |     |
| 30.0                                                                                 | 15.3                    | 11.3 |     | 12.5                    | 11.0 |     | 8.9                     | 8.0 |     | 6.6                     |     |     | 5.7                     |     |     |
| 32.0                                                                                 | 14.4                    | 10.8 |     | 12.1                    | 10.8 |     | 8.8                     | 8.0 |     | 6.6                     | 6.7 |     | 5.6                     | 5.4 |     |
| 34.0                                                                                 | 13.8                    | 10.3 |     | 11.8                    | 10.3 |     | 8.8                     | 8.0 |     | 6.6                     | 6.6 |     | 5.5                     | 5.4 |     |
| 36.0                                                                                 | 13.1                    | 9.8  | 7.3 | 11.7                    | 9.9  |     | 8.5                     | 8.0 |     | 6.6                     | 6.6 |     | 5.4                     | 5.3 |     |
| 38.0                                                                                 | 12.5                    | 9.4  | 7.1 | 11.6                    | 9.5  | 7.1 | 8.3                     | 8.0 |     | 6.5                     | 6.5 |     | 5.2                     | 5.3 |     |
| 40.0                                                                                 | 11.8                    | 9.0  | 6.9 | 11.4                    | 9.1  | 6.9 | 8.1                     | 8.0 | 5.9 | 6.4                     | 6.5 |     | 5.1                     | 5.2 |     |
| 42.0                                                                                 | 11.2                    | 8.7  | 6.8 | 11.1                    | 8.8  | 6.8 | 7.9                     | 7.9 | 5.9 | 6.2                     | 6.4 | 5.3 | 5.0                     | 5.1 | 4.3 |
| 44.0                                                                                 | 10.6                    | 8.3  | 6.6 | 10.7                    | 8.4  | 6.6 | 7.7                     | 7.9 | 5.9 | 6.0                     | 6.4 | 5.2 | 4.9                     | 5.0 | 4.3 |
| 46.0                                                                                 | 10.1                    | 8.0  | 6.4 | 10.3                    | 8.1  | 6.5 | 7.6                     | 7.8 | 5.9 | 5.9                     | 6.2 | 5.2 | 4.7                     | 4.9 | 4.3 |
| 48.0                                                                                 | 9.7                     | 7.7  | 6.2 | 9.9                     | 7.8  | 6.3 | 7.4                     | 7.7 | 5.9 | 5.7                     | 6.0 | 5.2 | 4.6                     | 4.8 | 4.3 |
| 50.0                                                                                 | 9.2                     | 7.5  | 6.1 | 9.5                     | 7.6  | 6.2 | 7.2                     | 7.5 | 5.9 | 5.5                     | 5.9 | 5.2 | 4.4                     | 4.7 | 4.2 |
| 54.0                                                                                 | 8.4                     | 7.0  | 5.9 | 8.3                     | 7.1  | 5.9 | 6.8                     | 7.3 | 5.9 | 5.2                     | 5.7 | 5.1 | 4.1                     | 4.4 | 4.0 |
| 58.0                                                                                 | 7.8                     | 6.6  | 5.6 | 7.3                     | 6.7  | 5.7 | 6.5                     | 6.9 | 5.7 | 4.8                     | 5.4 | 5.0 | 3.7                     | 4.2 | 3.9 |
| 62.0                                                                                 | 6.9                     | 6.2  | 5.5 | 6.5                     | 6.3  | 5.4 | 6.2                     | 6.1 | 5.5 | 4.6                     | 5.2 | 4.9 | 3.5                     | 4.0 | 3.8 |
| 66.0                                                                                 | 5.8                     | 5.9  | 4.3 | 5.7                     | 5.8  | 5.3 | 5.5                     | 5.4 | 5.3 | 4.4                     | 4.9 | 4.8 | 3.2                     | 3.8 | 3.7 |
| 70.0                                                                                 | 4.8                     | 5.4  | 4.3 | 4.6                     | 5.0  | 3.9 | 4.7                     | 4.8 | 4.8 | 4.1                     | 4.5 | 4.5 | 3.0                     | 3.5 | 3.6 |
| 74.0                                                                                 | 2.2                     | 3.9  |     | 3.7                     | 4.3  | 3.4 | 3.9                     | 4.3 | 2.9 | 3.8                     | 3.9 | 2.0 | 2.8                     | 3.3 | 3.6 |
| 78.0                                                                                 |                         |      |     | 2.1                     | 2.9  |     | 3.1                     | 3.7 | 2.7 | 3.1                     | 3.4 | 1.8 | 2.7                     | 3.1 |     |
| 82.0                                                                                 |                         |      |     |                         |      |     | 2.2                     | 2.3 |     | 2.4                     | 3.0 | 1.7 | 2.2                     | 2.8 |     |
| 86.0                                                                                 |                         |      |     |                         |      |     |                         |     |     | 1.7                     | 1.6 |     | 1.5                     | 2.1 |     |

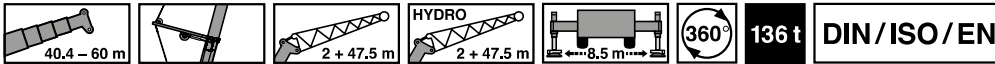
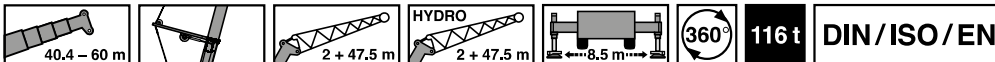
Operation · Einsatz · Utilisation  
Усо · Эксплуатация



|  m | 40,4 m + 2,0 m + 41,5 m |     |     | 45,4 m + 2,0 m + 41,5 m |     |     | 50,5 m + 2,0 m + 41,5 m |     |     | 55,6 m + 2,0 m + 41,5 m |     |     | 60,0 m + 2,0 m + 41,5 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 16,0                                                                               | 11,8                    |     |     | 9,5                     |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18,0                                                                               | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     |                         |     |     |                         |     |     |
| 20,0                                                                               | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     |                         |     |     |
| 22,0                                                                               | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,6                     |     |     |
| 24,0                                                                               | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,6                     |     |     |
| 26,0                                                                               | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,6                     |     |     |
| 28,0                                                                               | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,5                     |     |     |
| 30,0                                                                               | 11,8                    | 9,9 |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,4                     |     |     |
| 32,0                                                                               | 11,8                    | 9,3 |     | 9,5                     | 8,7 |     | 7,2                     |     |     | 5,4                     |     |     | 4,3                     |     |     |
| 34,0                                                                               | 11,8                    | 8,9 |     | 9,5                     | 8,7 |     | 7,2                     | 7,2 |     | 5,4                     |     |     | 4,2                     |     |     |
| 36,0                                                                               | 11,3                    | 8,4 |     | 9,5                     | 8,5 |     | 7,2                     | 7,2 |     | 5,3                     | 5,0 |     | 4,1                     | 3,9 |     |
| 38,0                                                                               | 10,8                    | 8,0 |     | 9,5                     | 8,1 |     | 7,2                     | 7,2 |     | 5,2                     | 5,0 |     | 3,9                     | 3,8 |     |
| 40,0                                                                               | 10,3                    | 7,7 |     | 9,5                     | 7,7 |     | 7,2                     | 7,2 |     | 5,0                     | 4,9 |     | 3,8                     | 3,8 |     |
| 42,0                                                                               | 9,8                     | 7,3 | 5,2 | 9,4                     | 7,4 |     | 7,2                     | 7,1 |     | 4,9                     | 4,9 |     | 3,7                     | 3,7 |     |
| 44,0                                                                               | 9,3                     | 7,0 | 5,0 | 9,1                     | 7,1 | 5,0 | 7,2                     | 7,0 |     | 4,7                     | 4,8 |     | 3,5                     | 3,6 |     |
| 46,0                                                                               | 8,8                     | 6,7 | 4,9 | 8,7                     | 6,8 | 4,9 | 7,1                     | 6,8 | 4,8 | 4,6                     | 4,7 |     | 3,4                     | 3,5 |     |
| 48,0                                                                               | 8,3                     | 6,4 | 4,7 | 8,3                     | 6,5 | 4,8 | 6,8                     | 6,5 | 4,7 | 4,4                     | 4,6 | 3,5 | 3,3                     | 3,5 | 2,7 |
| 50,0                                                                               | 7,9                     | 6,2 | 4,6 | 8,0                     | 6,3 | 4,6 | 6,6                     | 6,3 | 4,6 | 4,2                     | 4,5 | 3,5 | 3,2                     | 3,4 | 2,7 |
| 54,0                                                                               | 7,2                     | 5,7 | 4,4 | 7,4                     | 5,8 | 4,5 | 6,2                     | 5,8 | 4,5 | 3,9                     | 4,3 | 3,5 | 2,9                     | 3,1 | 2,6 |
| 58,0                                                                               | 6,5                     | 5,3 | 4,2 | 6,7                     | 5,4 | 4,2 | 5,9                     | 5,4 | 4,3 | 3,6                     | 4,0 | 3,4 | 2,6                     | 2,9 | 2,5 |
| 62,0                                                                               | 5,9                     | 4,9 | 4,0 | 5,9                     | 5,0 | 4,1 | 5,5                     | 5,1 | 4,1 | 3,4                     | 3,9 | 3,3 | 2,4                     | 2,8 | 2,4 |
| 66,0                                                                               | 5,4                     | 4,6 | 3,9 | 5,2                     | 4,7 | 3,9 | 4,9                     | 4,7 | 3,9 | 3,2                     | 3,7 | 3,3 | 2,2                     | 2,6 | 2,3 |
| 70,0                                                                               | 4,9                     | 4,3 | 2,6 | 4,5                     | 4,4 | 3,7 | 4,2                     | 4,2 | 3,7 | 3,0                     | 3,4 | 3,2 | 2,0                     | 2,4 | 2,2 |
| 74,0                                                                               | 4,3                     | 4,1 | 2,6 | 3,8                     | 3,9 | 2,5 | 3,6                     | 3,7 | 3,5 | 2,8                     | 3,2 | 3,2 | 1,7                     | 2,3 | 2,2 |
| 78,0                                                                               | 2,7                     | 2,7 |     | 3,3                     | 3,4 | 2,3 | 3,1                     | 3,1 | 1,5 | 2,6                     | 2,9 | 2,9 |                         |     |     |
| 82,0                                                                               |                         |     |     | 2,3                     | 2,9 | 1,8 | 2,7                     | 2,6 |     | 2,3                     | 2,4 |     |                         |     |     |
| 86,0                                                                               |                         |     |     |                         |     |     | 1,9                     | 2,2 |     | 2,0                     | 2,0 |     |                         |     |     |
| 90,0                                                                               |                         |     |     |                         |     |     |                         |     |     | 1,6                     | 1,7 |     |                         |     |     |

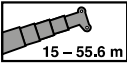


|  m | 40,4 m + 2,0 m + 41,5 m |     |     | 45,4 m + 2,0 m + 41,5 m |     |     | 50,5 m + 2,0 m + 41,5 m |     |     | 55,6 m + 2,0 m + 41,5 m |     |     | 60,0 m + 2,0 m + 41,5 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° | 0°                      | 20° | 40° |
| 16,0                                                                                 | 11,8                    |     |     | 9,5                     |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18,0                                                                                 | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     |                         |     |     |                         |     |     |
| 20,0                                                                                 | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     |                         |     |     |
| 22,0                                                                                 | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,6                     |     |     |
| 24,0                                                                                 | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,6                     |     |     |
| 26,0                                                                                 | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,6                     |     |     |
| 28,0                                                                                 | 11,8                    |     |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,5                     |     |     |
| 30,0                                                                                 | 11,8                    | 9,9 |     | 9,5                     |     |     | 7,2                     |     |     | 5,4                     |     |     | 4,4                     |     |     |
| 32,0                                                                                 | 11,8                    | 9,3 |     | 9,5                     | 8,7 |     | 7,2                     |     |     | 5,4                     |     |     | 4,3                     |     |     |
| 34,0                                                                                 | 11,8                    | 8,9 |     | 9,5                     | 8,7 |     | 7,2                     | 7,2 |     | 5,4                     |     |     | 4,2                     |     |     |
| 36,0                                                                                 | 11,3                    | 8,4 |     | 9,5                     | 8,5 |     | 7,2                     | 7,2 |     | 5,3                     | 5,0 |     | 4,1                     | 3,9 |     |
| 38,0                                                                                 | 10,8                    | 8,0 |     | 9,5                     | 8,1 |     | 7,2                     | 7,2 |     | 5,2                     | 5,0 |     | 3,9                     | 3,8 |     |
| 40,0                                                                                 | 10,3                    | 7,7 |     | 9,5                     | 7,7 |     | 7,2                     | 7,2 |     | 5,0                     | 4,9 |     | 3,8                     | 3,8 |     |
| 42,0                                                                                 | 9,8                     | 7,3 | 5,2 | 9,4                     | 7,4 |     | 7,2                     | 7,1 |     | 4,9                     | 4,9 |     | 3,7                     | 3,7 |     |
| 44,0                                                                                 | 9,3                     | 7,0 | 5,0 | 9,1                     | 7,1 | 5,0 | 7,2                     | 7,0 |     | 4,7                     | 4,8 |     | 3,5                     | 3,6 |     |
| 46,0                                                                                 | 8,8                     | 6,7 | 4,9 | 8,7                     | 6,8 | 4,9 | 7,1                     | 6,8 | 4,8 | 4,6                     | 4,7 |     | 3,4                     | 3,5 |     |
| 48,0                                                                                 | 8,3                     | 6,4 | 4,7 | 8,3                     | 6,5 | 4,8 | 6,8                     | 6,5 | 4,7 | 4,4                     | 4,6 | 3,5 | 3,3                     | 3,5 | 2,7 |
| 50,0                                                                                 | 7,9                     | 6,2 | 4,6 | 8,0                     | 6,3 | 4,6 | 6,6                     | 6,3 | 4,6 | 4,2                     | 4,5 | 3,5 | 3,2                     | 3,4 | 2,7 |
| 54,0                                                                                 | 7,2                     | 5,7 | 4,4 | 7,4                     | 5,8 | 4,5 | 6,2                     | 5,8 | 4,5 | 3,9                     | 4,3 | 3,5 | 2,9                     | 3,1 | 2,6 |
| 58,0                                                                                 | 6,5                     | 5,3 | 4,2 | 6,7                     | 5,4 | 4,2 | 5,9                     | 5,4 | 4,3 | 3,6                     | 4,0 | 3,4 | 2,6                     | 2,9 | 2,5 |
| 62,0                                                                                 | 5,9                     | 4,9 | 4,0 | 5,9                     | 5,0 | 4,1 | 5,5                     | 5,1 | 4,1 | 3,4                     | 3,9 | 3,3 | 2,4                     | 2,8 | 2,4 |
| 66,0                                                                                 | 5,4                     | 4,6 | 3,9 | 5,2                     | 4,7 | 3,9 | 4,9                     | 4,7 | 3,9 | 3,2                     | 3,7 | 3,3 | 2,2                     | 2,6 | 2,3 |
| 70,0                                                                                 | 4,8                     | 4,3 | 2,6 | 4,5                     | 4,4 | 3,7 | 4,2                     | 4,2 | 3,7 | 3,0                     | 3,4 | 3,2 | 2,0                     | 2,4 | 2,2 |
| 74,0                                                                                 | 3,9                     | 4,1 | 2,6 | 3,7                     | 3,9 | 2,5 | 3,6                     | 3,7 | 3,5 | 2,8                     | 3,2 | 3,2 | 1,7                     | 2,3 | 2,2 |
| 78,0                                                                                 | 2,7                     | 2,7 |     | 2,9                     | 3,4 | 2,3 | 2,9                     | 3,1 | 1,5 | 2,6                     | 2,9 | 2,9 |                         |     |     |
| 82,0                                                                                 |                         |     |     | 2,2                     | 2,7 | 1,8 | 2,2                     | 2,6 |     | 2,2                     | 2,4 |     |                         |     |     |
| 86,0                                                                                 |                         |     |     |                         |     |     | 1,5                     | 2,0 |     | 1,5                     | 2,0 |     |                         |     |     |

[illegible][illegible]

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

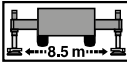
Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



15 – 55.6 m



22.8 – 78.5 m



8.5 m



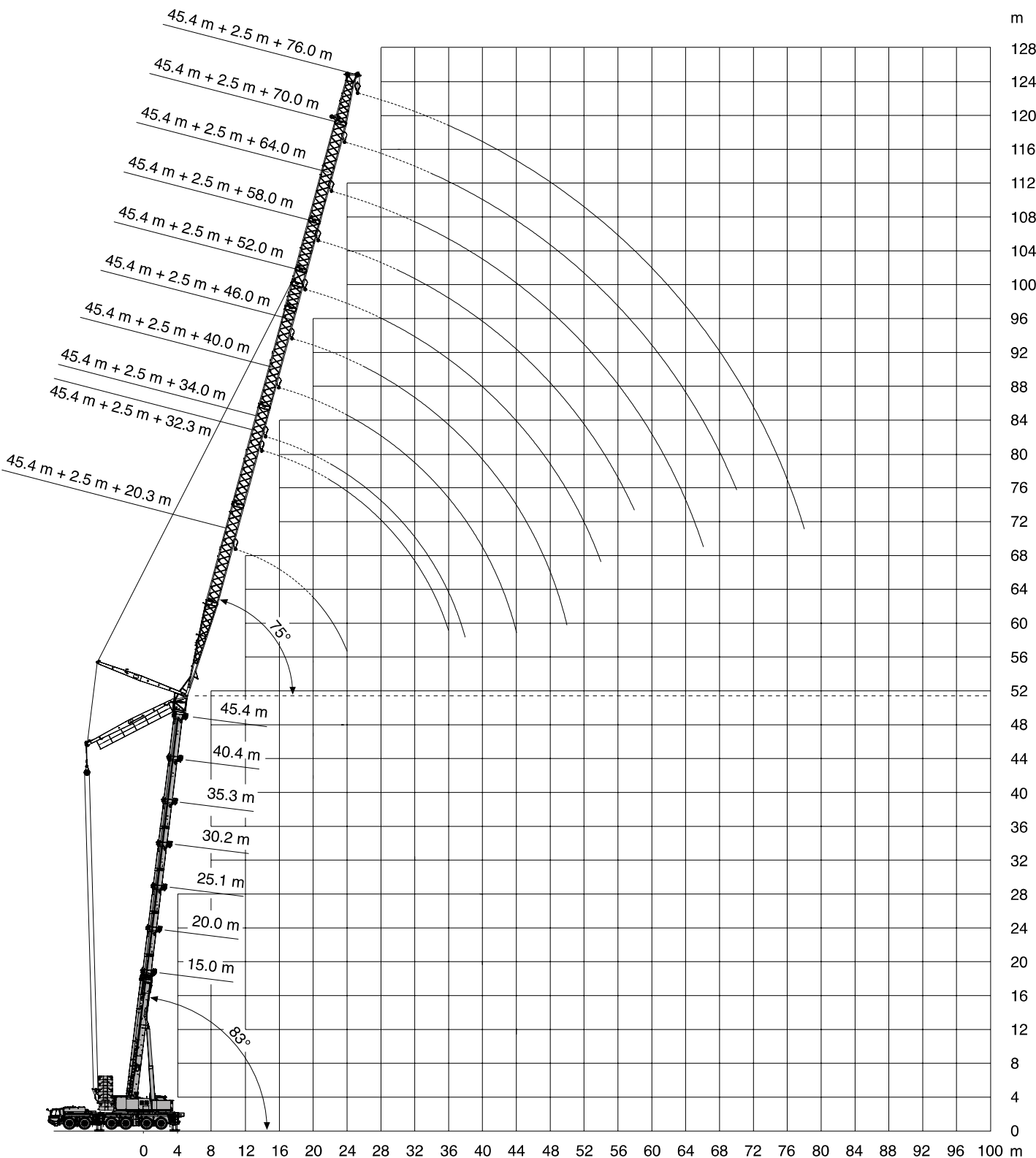
360°

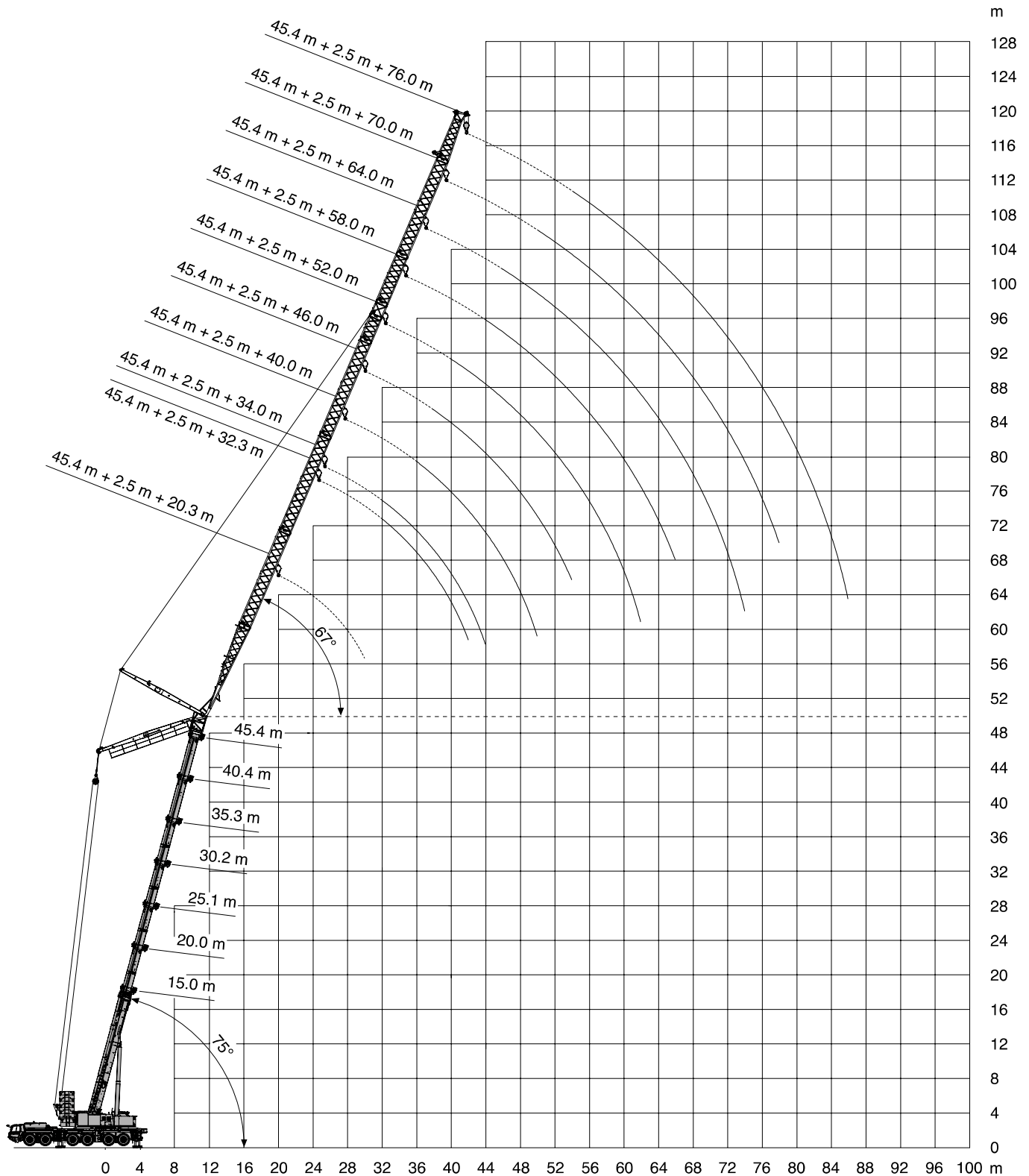
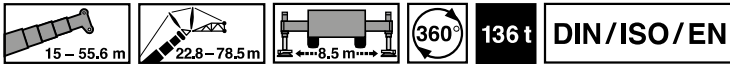


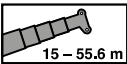
136 t



DIN/ISO/EN



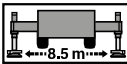




15 – 55.6 m



22.8 – 78.5 m



8.5 m



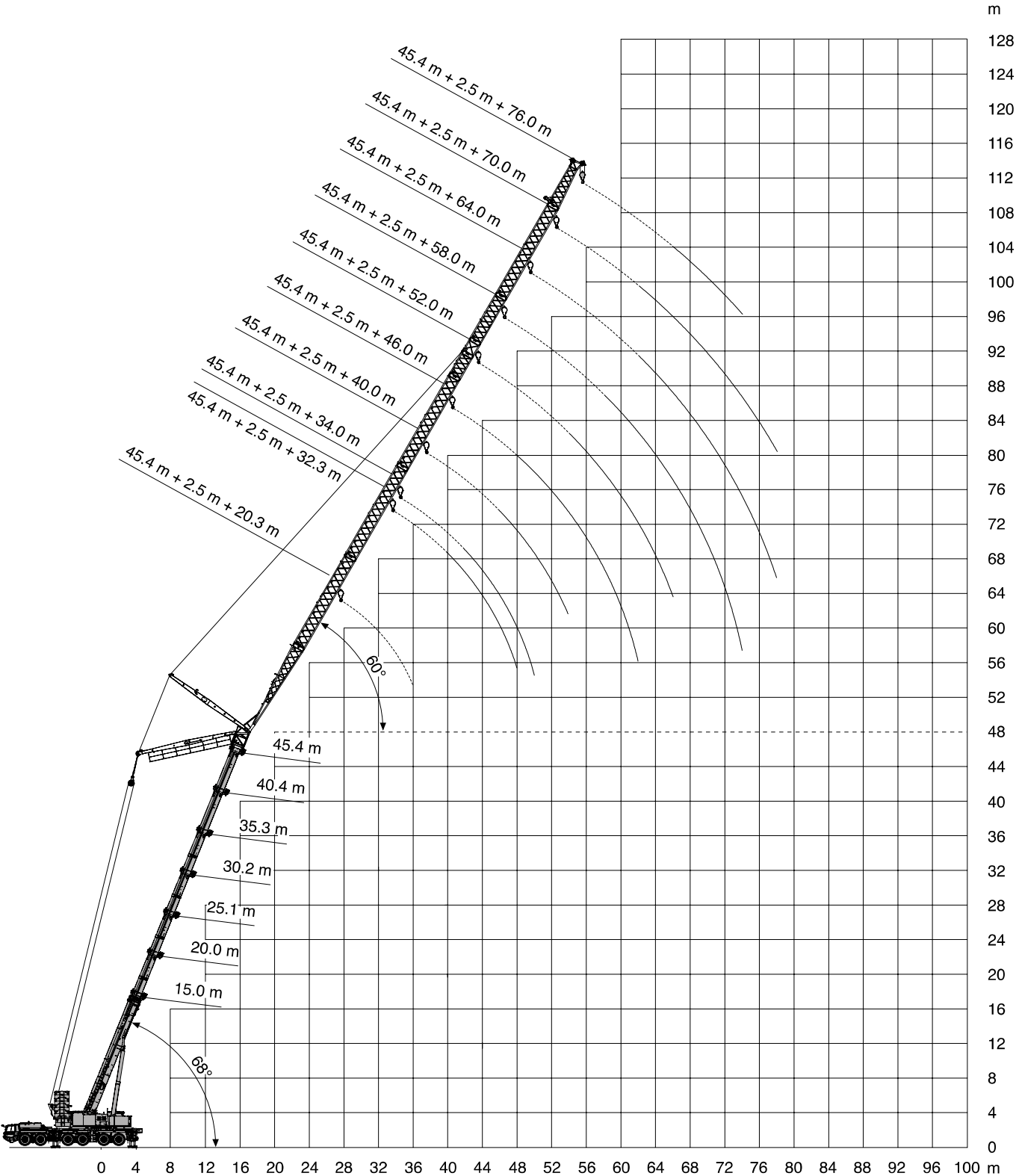
360°



136 t

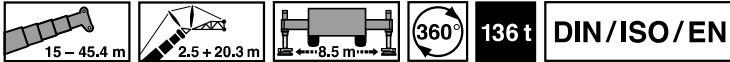


DIN / ISO / EN

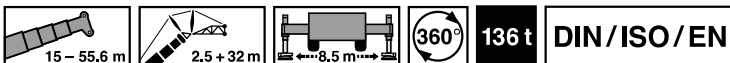


Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

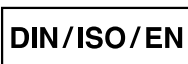
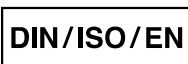


|  m | 15.0 m + 2.5 m + 20.3 m |      |      | 25.1 m + 2.5 m + 20.3 m |      |      | 35.3 m + 2.5 m + 20.3 m |      |      | 40.4 m + 2.5 m + 20.3 m |      |      | 45.4 m + 2.5 m + 20.3 m |      |      |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|
|                                                                                    | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  |
| 14.0                                                                               |                         |      |      | 65.6                    |      |      |                         |      |      |                         |      |      |                         |      |      |
| 16.0                                                                               |                         | 67.4 |      | 59.2                    |      |      |                         |      |      |                         |      |      |                         |      |      |
| 18.0                                                                               |                         | 61.0 |      | 54.0                    |      |      | 45.7                    |      |      | 39.0                    |      |      |                         |      |      |
| 20.0                                                                               |                         | 55.8 | 56.5 | 47.1                    | 47.6 |      | 41.6                    |      |      | 36.6                    |      |      | 30.7                    |      |      |
| 22.0                                                                               |                         | 51.3 | 52.0 | 38.1                    | 43.5 |      | 38.4                    |      |      | 33.6                    |      |      | 28.1                    |      |      |
| 24.0                                                                               |                         |      | 48.1 |                         | 40.3 |      |                         | 31.9 |      | 31.3                    |      |      | 24.1                    |      |      |
| 26.0                                                                               |                         |      |      |                         | 38.2 | 35.3 |                         | 29.4 |      |                         | 25.8 |      |                         |      |      |
| 28.0                                                                               |                         |      |      |                         |      | 32.9 |                         | 27.4 |      |                         | 22.1 |      |                         |      |      |
| 30.0                                                                               |                         |      |      |                         |      |      |                         |      | 21.4 |                         | 20.3 |      |                         | 17.7 |      |
| 32.0                                                                               |                         |      |      |                         |      |      |                         |      | 19.6 |                         |      | 16.3 |                         |      |      |
| 34.0                                                                               |                         |      |      |                         |      |      |                         |      |      |                         |      |      |                         |      |      |
| 36.0                                                                               |                         |      |      |                         |      |      |                         |      |      |                         |      |      |                         |      | 13.8 |

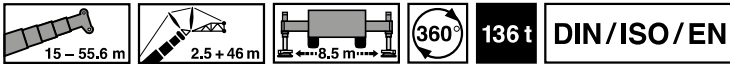
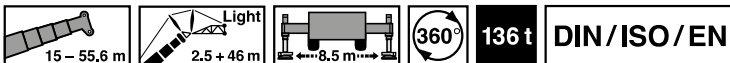


|  m | 15.0 m + 2.5 m + 32.3 m |      |      | 25.1 m + 2.5 m + 32.3 m |      |      | 35.3 m + 2.5 m + 32.3 m |      |      | 45.4 m + 2.5 m + 32.3 m |      |      |  |  |  |
|-------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|--|--|--|
|                                                                                     | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  |  |  |  |
| 12.0                                                                                | 61.2                    |      |      |                         |      |      |                         |      |      |                         |      |      |  |  |  |
| 14.0                                                                                | 59.6                    |      |      | 43.5                    |      |      |                         |      |      |                         |      |      |  |  |  |
| 16.0                                                                                | 57.2                    |      |      | 42.6                    |      |      |                         |      |      |                         |      |      |  |  |  |
| 18.0                                                                                | 52.2                    |      |      | 41.8                    |      |      | 32.4                    |      |      |                         |      |      |  |  |  |
| 20.0                                                                                | 48.0                    | 48.8 |      | 41.1                    |      |      | 31.9                    |      |      |                         |      |      |  |  |  |
| 22.0                                                                                | 44.4                    | 45.1 |      | 39.5                    | 38.8 |      | 31.5                    |      |      | 17.8                    |      |      |  |  |  |
| 24.0                                                                                | 41.3                    | 41.9 | 42.3 | 36.9                    | 36.1 |      | 31.0                    |      |      | 17.7                    |      |      |  |  |  |
| 26.0                                                                                | 38.6                    | 39.2 | 39.4 | 34.6                    | 33.8 |      | 30.4                    |      |      | 17.4                    |      |      |  |  |  |
| 28.0                                                                                | 34.4                    | 36.8 | 37.0 | 32.6                    | 31.8 |      | 28.7                    | 26.1 |      | 17.1                    |      |      |  |  |  |
| 30.0                                                                                | 28.6                    | 34.6 | 34.8 | 30.8                    | 29.9 | 29.1 | 27.1                    | 22.4 |      | 16.9                    |      |      |  |  |  |
| 32.0                                                                                | 20.4                    | 32.7 | 32.9 | 29.2                    | 28.3 | 27.5 | 22.7                    | 20.3 |      | 16.1                    | 15.3 |      |  |  |  |
| 34.0                                                                                |                         | 24.9 | 31.1 | 21.9                    | 26.9 | 23.8 | 21.2                    | 19.0 | 17.8 | 15.1                    | 14.2 |      |  |  |  |
| 36.0                                                                                |                         |      | 29.4 |                         | 23.0 | 21.7 |                         | 17.7 | 16.5 | 14.2                    | 13.2 |      |  |  |  |
| 38.0                                                                                |                         |      |      |                         | 22.2 | 20.4 |                         | 16.7 | 15.4 |                         | 12.3 |      |  |  |  |
| 40.0                                                                                |                         |      |      |                         |      | 19.3 |                         | 15.8 | 14.4 |                         | 11.5 | 11.0 |  |  |  |
| 42.0                                                                                |                         |      |      |                         |      |      |                         |      | 13.5 |                         | 10.8 | 10.3 |  |  |  |
| 44.0                                                                                |                         |      |      |                         |      |      |                         |      | 12.7 |                         |      | 9.6  |  |  |  |
| 46.0                                                                                |                         |      |      |                         |      |      |                         |      |      |                         |      | 9.0  |  |  |  |
| 48.0                                                                                |                         |      |      |                         |      |      |                         |      |      |                         |      | 8.4  |  |  |  |

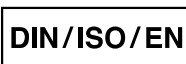
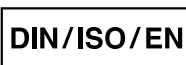
## Uso · Эксплуатация

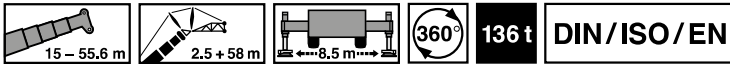
[illegible][illegible]



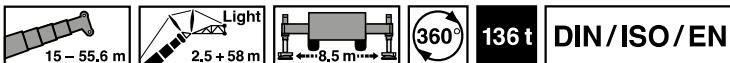
[illegible][illegible]

## Uso · Эксплуатация

[illegible][illegible]

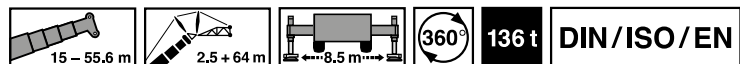


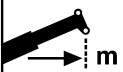
|  m | 15.0 m + 2.5 m + 58.0 m |      |      | 25.1 m + 2.5 m + 58.0 m |      |      | 35.3 m + 2.5 m + 58.0 m |      |     | 45.4 m + 2.5 m + 58.0 m |     |     | 55.6 m + 2.5 m + 58.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 20.0                                                                               | 25.6                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 22.0                                                                               | 23.9                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 24.0                                                                               | 23.0                    |      |      | 17.5                    |      |      |                         |      |     |                         |     |     |                         |     |     |
| 26.0                                                                               | 22.6                    |      |      | 17.3                    |      |      | 14.6                    |      |     |                         |     |     |                         |     |     |
| 28.0                                                                               | 22.3                    |      |      | 17.1                    |      |      | 14.4                    |      |     |                         |     |     |                         |     |     |
| 30.0                                                                               | 22.0                    | 22.1 |      | 16.9                    |      |      | 14.3                    |      |     | 9.3                     |     |     |                         |     |     |
| 32.0                                                                               | 21.6                    | 21.7 |      | 16.7                    |      |      | 14.2                    |      |     | 9.2                     |     |     | 4.7                     |     |     |
| 34.0                                                                               | 21.3                    | 21.5 |      | 16.6                    |      |      | 14.0                    |      |     | 9.1                     |     |     | 4.6                     |     |     |
| 36.0                                                                               | 20.8                    | 20.6 |      | 16.4                    | 16.5 |      | 13.9                    |      |     | 9.0                     |     |     | 4.6                     |     |     |
| 38.0                                                                               | 19.9                    | 19.7 |      | 16.2                    | 16.4 |      | 13.8                    | 13.9 |     | 9.0                     |     |     | 4.6                     |     |     |
| 40.0                                                                               | 19.1                    | 18.9 | 18.6 | 16.1                    | 15.7 |      | 13.7                    | 13.7 |     | 8.9                     |     |     | 4.5                     |     |     |
| 42.0                                                                               | 18.4                    | 18.1 | 17.8 | 16.0                    | 15.0 |      | 13.6                    | 13.1 |     | 8.8                     |     |     | 4.4                     |     |     |
| 44.0                                                                               | 17.7                    | 17.4 | 17.1 | 15.5                    | 14.4 | 13.5 | 13.5                    | 12.6 |     | 8.8                     | 8.7 |     | 4.3                     |     |     |
| 46.0                                                                               | 17.1                    | 16.8 | 16.5 | 14.9                    | 13.8 | 13.0 | 13.4                    | 11.9 |     | 8.7                     | 8.5 |     | 4.3                     |     |     |
| 48.0                                                                               | 16.0                    | 16.2 | 15.9 | 14.4                    | 13.3 | 12.4 | 13.0                    | 11.2 |     | 8.7                     | 8.1 |     | 4.3                     | 4.1 |     |
| 50.0                                                                               | 14.7                    | 15.7 | 15.3 | 13.9                    | 12.8 | 12.0 | 12.6                    | 10.6 | 9.1 | 8.6                     | 7.6 |     | 4.3                     | 3.8 |     |
| 54.0                                                                               | 11.3                    | 14.3 | 14.4 | 13.0                    | 11.9 | 11.1 | 11.5                    | 9.5  | 8.0 | 7.9                     | 6.8 |     | 4.2                     | 3.2 |     |
| 58.0                                                                               |                         | 11.5 | 13.4 | 10.9                    | 11.2 | 10.3 | 10.6                    | 8.5  | 7.1 | 7.1                     | 6.0 | 5.2 | 3.6                     | 2.7 |     |
| 62.0                                                                               |                         |      |      |                         | 10.5 | 9.4  |                         | 7.7  | 6.3 |                         | 5.4 | 4.6 | 3.2                     | 2.3 | 1.6 |
| 66.0                                                                               |                         |      |      |                         |      |      |                         | 7.1  | 5.6 |                         | 4.8 | 4.0 |                         | 1.9 |     |
| 70.0                                                                               |                         |      |      |                         |      |      |                         |      | 5.1 |                         |     | 3.6 |                         | 1.6 |     |
| 74.0                                                                               |                         |      |      |                         |      |      |                         |      |     |                         |     | 3.1 |                         |     |     |

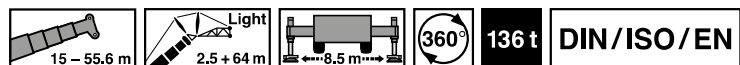


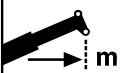
|  m | 15.0 m + 2.5 m + 58.0 m |      |      | 25.1 m + 2.5 m + 58.0 m |      |      | 35.3 m + 2.5 m + 58.0 m |      |     | 45.4 m + 2.5 m + 58.0 m |     |     | 55.6 m + 2.5 m + 58.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 22.0                                                                                 | 20.9                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 24.0                                                                                 | 19.9                    |      |      | 16.8                    |      |      |                         |      |     |                         |     |     |                         |     |     |
| 26.0                                                                                 | 18.8                    |      |      | 16.6                    |      |      | 14.5                    |      |     |                         |     |     |                         |     |     |
| 28.0                                                                                 | 17.6                    |      |      | 16.3                    |      |      | 14.4                    |      |     |                         |     |     |                         |     |     |
| 30.0                                                                                 | 16.7                    |      |      | 16.1                    |      |      | 14.2                    |      |     |                         |     |     |                         |     |     |
| 32.0                                                                                 | 15.7                    | 16.8 |      | 15.4                    |      |      | 14.1                    |      |     | 9.4                     |     |     |                         |     |     |
| 34.0                                                                                 | 14.8                    | 15.8 |      | 14.7                    |      |      | 13.8                    |      |     | 9.3                     |     |     | 4.9                     |     |     |
| 36.0                                                                                 | 14.0                    | 15.0 |      | 14.0                    | 15.1 |      | 13.5                    |      |     | 9.2                     |     |     | 4.8                     |     |     |
| 38.0                                                                                 | 13.3                    | 14.1 |      | 13.3                    | 14.5 |      | 13.1                    | 13.9 |     | 9.1                     |     |     | 4.8                     |     |     |
| 40.0                                                                                 | 12.6                    | 13.4 | 14.1 | 12.7                    | 13.9 |      | 12.6                    | 13.5 |     | 9.1                     |     |     | 4.7                     |     |     |
| 42.0                                                                                 | 12.0                    | 12.7 | 13.4 | 12.1                    | 13.2 |      | 12.2                    | 13.2 |     | 9.0                     |     |     | 4.6                     |     |     |
| 44.0                                                                                 | 11.4                    | 12.1 | 12.7 | 11.5                    | 12.6 | 13.5 | 11.7                    | 12.7 |     | 9.0                     | 8.9 |     | 4.6                     |     |     |
| 46.0                                                                                 | 10.8                    | 11.5 | 12.0 | 11.0                    | 12.0 | 12.9 | 11.3                    | 12.2 |     | 8.9                     | 8.8 |     | 4.6                     |     |     |
| 48.0                                                                                 | 10.3                    | 10.9 | 11.4 | 10.5                    | 11.5 | 12.3 | 10.8                    | 11.6 |     | 8.9                     | 8.5 |     | 4.6                     | 4.5 |     |
| 50.0                                                                                 | 9.8                     | 10.4 | 10.9 | 10.0                    | 10.9 | 11.7 | 10.4                    | 10.9 | 9.4 | 8.9                     | 8.0 |     | 4.6                     | 4.2 |     |
| 54.0                                                                                 | 9.0                     | 9.5  | 9.9  | 9.2                     | 10.0 | 10.7 | 9.6                     | 9.8  | 8.3 | 8.2                     | 7.1 |     | 4.5                     | 3.6 |     |
| 58.0                                                                                 |                         | 8.7  | 9.1  | 8.4                     | 9.1  | 9.8  | 8.8                     | 8.9  | 7.4 | 7.5                     | 6.4 | 5.6 | 4.0                     | 3.1 |     |
| 62.0                                                                                 |                         |      |      |                         | 8.4  | 9.0  |                         | 8.1  | 6.6 |                         | 5.7 | 5.0 | 3.6                     | 2.7 | 1.9 |
| 66.0                                                                                 |                         |      |      |                         |      |      |                         | 7.5  | 6.0 |                         | 5.2 | 4.4 |                         | 2.3 | 1.6 |
| 70.0                                                                                 |                         |      |      |                         |      |      |                         |      | 5.4 |                         |     | 3.9 |                         | 2.0 |     |
| 74.0                                                                                 |                         |      |      |                         |      |      |                         |      |     |                         |     | 3.5 |                         |     |     |

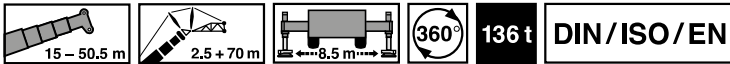
Operation · Einsatz · Utilisation  
Uso · Эксплуатация



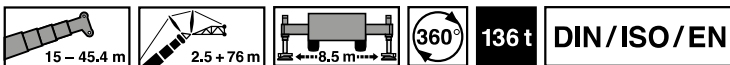
|  m | 15.0 m + 2.5 m + 64.0 m |      |      | 25.1 m + 2.5 m + 64.0 m |      |      | 35.3 m + 2.5 m + 64.0 m |      |     | 45.4 m + 2.5 m + 64.0 m |     |     | 55.6 m + 2.5 m + 64.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 24.0                                                                               | 19.3                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 26.0                                                                               | 19.1                    |      |      | 15.8                    |      |      |                         |      |     |                         |     |     |                         |     |     |
| 28.0                                                                               | 18.8                    |      |      | 15.7                    |      |      | 12.6                    |      |     |                         |     |     |                         |     |     |
| 30.0                                                                               | 18.6                    |      |      | 15.5                    |      |      | 12.5                    |      |     |                         |     |     |                         |     |     |
| 32.0                                                                               | 18.3                    |      |      | 15.3                    |      |      | 12.4                    |      |     | 7.8                     |     |     |                         |     |     |
| 34.0                                                                               | 18.1                    | 18.2 |      | 15.2                    |      |      | 12.3                    |      |     | 7.8                     |     |     | 3.8                     |     |     |
| 36.0                                                                               | 17.9                    | 17.9 |      | 15.0                    |      |      | 12.2                    |      |     | 7.7                     |     |     | 3.7                     |     |     |
| 38.0                                                                               | 17.7                    | 17.6 |      | 14.9                    | 14.7 |      | 12.1                    |      |     | 7.7                     |     |     | 3.7                     |     |     |
| 40.0                                                                               | 17.2                    | 16.9 |      | 14.8                    | 14.1 |      | 12.0                    |      |     | 7.6                     |     |     | 3.7                     |     |     |
| 42.0                                                                               | 16.6                    | 16.2 | 15.9 | 14.6                    | 13.5 |      | 11.9                    | 11.7 |     | 7.6                     |     |     | 3.6                     |     |     |
| 44.0                                                                               | 16.0                    | 15.7 | 15.3 | 14.1                    | 13.0 |      | 11.8                    | 11.2 |     | 7.5                     |     |     | 3.6                     |     |     |
| 46.0                                                                               | 15.5                    | 15.1 | 14.8 | 13.6                    | 12.5 |      | 11.7                    | 10.7 |     | 7.5                     | 7.5 |     | 3.6                     |     |     |
| 48.0                                                                               | 15.0                    | 14.6 | 14.2 | 13.1                    | 12.0 | 11.2 | 11.7                    | 10.3 |     | 7.4                     | 7.5 |     | 3.6                     |     |     |
| 50.0                                                                               | 14.5                    | 14.1 | 13.8 | 12.6                    | 11.6 | 10.7 | 11.5                    | 9.9  |     | 7.4                     | 7.4 |     | 3.5                     |     |     |
| 54.0                                                                               | 13.4                    | 13.2 | 12.9 | 11.8                    | 10.8 | 9.9  | 10.7                    | 9.1  | 7.9 | 7.3                     | 6.7 |     | 3.5                     | 3.0 |     |
| 58.0                                                                               | 10.8                    | 12.5 | 12.1 | 11.1                    | 10.1 | 9.2  | 10.0                    | 8.5  | 7.3 | 7.0                     | 5.9 |     | 3.4                     | 2.5 |     |
| 62.0                                                                               | 8.1                     | 11.1 | 11.5 | 10.5                    | 9.5  | 8.6  | 9.4                     | 7.9  | 6.7 | 6.4                     | 5.3 | 4.4 | 3.0                     | 2.1 |     |
| 66.0                                                                               |                         |      | 10.3 |                         | 8.9  | 7.9  | 8.9                     | 7.3  | 6.0 | 5.8                     | 4.7 | 3.9 | 2.7                     | 1.7 |     |
| 70.0                                                                               |                         |      |      |                         |      | 7.0  |                         | 6.8  | 5.2 |                         | 4.2 | 3.2 |                         |     |     |
| 74.0                                                                               |                         |      |      |                         |      |      |                         |      | 4.5 |                         | 3.8 | 2.6 |                         |     |     |
| 78.0                                                                               |                         |      |      |                         |      |      |                         |      |     |                         |     | 2.1 |                         |     |     |



|  m | 15.0 m + 2.5 m + 64.0 m |      |      | 25.1 m + 2.5 m + 64.0 m |      |      | 35.3 m + 2.5 m + 64.0 m |      |     | 45.4 m + 2.5 m + 64.0 m |     |     | 55.6 m + 2.5 m + 64.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 24.0                                                                                 | 16.5                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 26.0                                                                                 | 15.6                    |      |      | 14.6                    |      |      |                         |      |     |                         |     |     |                         |     |     |
| 28.0                                                                                 | 14.8                    |      |      | 14.1                    |      |      |                         |      |     |                         |     |     |                         |     |     |
| 30.0                                                                                 | 13.9                    |      |      | 13.5                    |      |      | 12.0                    |      |     |                         |     |     |                         |     |     |
| 32.0                                                                                 | 13.1                    |      |      | 12.9                    |      |      | 11.7                    |      |     | 7.9                     |     |     |                         |     |     |
| 34.0                                                                                 | 12.4                    | 13.2 |      | 12.3                    |      |      | 11.4                    |      |     | 7.8                     |     |     | 4.0                     |     |     |
| 36.0                                                                                 | 11.7                    | 12.5 |      | 11.7                    |      |      | 11.0                    |      |     | 7.8                     |     |     | 4.0                     |     |     |
| 38.0                                                                                 | 11.1                    | 11.8 |      | 11.1                    | 12.2 |      | 10.7                    |      |     | 7.7                     |     |     | 3.9                     |     |     |
| 40.0                                                                                 | 10.5                    | 11.2 |      | 10.6                    | 11.6 |      | 10.3                    |      |     | 7.7                     |     |     | 3.9                     |     |     |
| 42.0                                                                                 | 9.9                     | 10.6 | 11.1 | 10.1                    | 11.0 |      | 9.9                     | 10.8 |     | 7.6                     |     |     | 3.9                     |     |     |
| 44.0                                                                                 | 9.4                     | 10.0 | 10.5 | 9.6                     | 10.5 |      | 9.5                     | 10.5 |     | 7.6                     |     |     | 3.8                     |     |     |
| 46.0                                                                                 | 9.0                     | 9.5  | 10.0 | 9.1                     | 10.0 |      | 9.1                     | 10.1 |     | 7.5                     | 7.6 |     | 3.8                     |     |     |
| 48.0                                                                                 | 8.5                     | 9.0  | 9.5  | 8.7                     | 9.5  | 10.3 | 8.8                     | 9.7  |     | 7.5                     | 7.5 |     | 3.7                     |     |     |
| 50.0                                                                                 | 8.1                     | 8.6  | 9.0  | 8.3                     | 9.1  | 9.8  | 8.4                     | 9.4  |     | 7.5                     | 7.5 |     | 3.7                     |     |     |
| 54.0                                                                                 | 7.4                     | 7.8  | 8.2  | 7.6                     | 8.3  | 8.9  | 7.7                     | 8.6  | 7.8 | 7.1                     | 7.0 |     | 3.7                     | 3.4 |     |
| 58.0                                                                                 | 6.7                     | 7.1  | 7.4  | 6.9                     | 7.5  | 8.1  | 7.1                     | 7.9  | 7.2 | 6.8                     | 6.3 |     | 3.6                     | 2.9 |     |
| 62.0                                                                                 | 6.2                     | 6.5  | 6.8  | 6.4                     | 6.9  | 7.4  | 6.5                     | 7.3  | 6.6 | 6.4                     | 5.6 | 4.8 | 3.4                     | 2.4 |     |
| 66.0                                                                                 |                         |      | 6.2  |                         | 6.3  | 6.8  |                         | 6.7  | 5.9 | 6.0                     | 5.0 | 4.2 | 3.0                     | 2.1 |     |
| 70.0                                                                                 |                         |      |      |                         |      | 6.2  |                         | 6.2  | 5.3 |                         | 4.5 | 3.7 |                         | 1.7 |     |
| 74.0                                                                                 |                         |      |      |                         |      |      |                         |      | 4.8 |                         | 4.1 | 3.3 |                         | 1.5 |     |
| 78.0                                                                                 |                         |      |      |                         |      |      |                         |      |     |                         |     | 2.8 |                         |     |     |



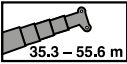
|  m | 15.0 m + 2.5 m + 70.0 m |      |      | 25.1 m + 2.5 m + 70.0 m |      |     | 35.3 m + 2.5 m + 70.0 m |     |     | 45.4 m + 2.5 m + 70.0 m |     |     | 50.5 m + 2.5 m + 70.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 26.0                                                                               | 15.9                    |      |      |                         |      |     |                         |     |     |                         |     |     |                         |     |     |
| 28.0                                                                               | 15.7                    |      |      | 13.8                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 30.0                                                                               | 15.5                    |      |      | 13.6                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 32.0                                                                               | 15.4                    |      |      | 13.5                    |      |     | 10.6                    |     |     |                         |     |     |                         |     |     |
| 34.0                                                                               | 15.2                    |      |      | 13.4                    |      |     | 10.5                    |     |     | 6.3                     |     |     |                         |     |     |
| 36.0                                                                               | 14.9                    |      |      | 13.3                    |      |     | 10.4                    |     |     | 6.3                     |     |     | 4.5                     |     |     |
| 38.0                                                                               | 14.6                    | 14.9 |      | 13.1                    |      |     | 10.4                    |     |     | 6.2                     |     |     | 4.5                     |     |     |
| 40.0                                                                               | 14.2                    | 14.6 |      | 12.9                    | 13.1 |     | 10.3                    |     |     | 6.2                     |     |     | 4.4                     |     |     |
| 42.0                                                                               | 13.6                    | 14.1 |      | 12.7                    | 12.8 |     | 10.2                    |     |     | 6.1                     |     |     | 4.3                     |     |     |
| 44.0                                                                               | 13.1                    | 13.7 |      | 12.4                    | 12.2 |     | 10.1                    |     |     | 6.1                     |     |     | 4.3                     |     |     |
| 46.0                                                                               | 12.5                    | 13.1 | 13.1 | 12.1                    | 11.8 |     | 10.1                    | 9.3 |     | 6.1                     |     |     | 4.3                     |     |     |
| 48.0                                                                               | 12.0                    | 12.6 | 12.7 | 11.7                    | 11.3 |     | 10.0                    | 8.9 |     | 6.1                     |     |     | 4.2                     |     |     |
| 50.0                                                                               | 11.6                    | 12.1 | 12.3 | 11.4                    | 10.9 |     | 9.9                     | 8.6 |     | 6.1                     | 6.1 |     | 4.2                     |     |     |
| 54.0                                                                               | 10.7                    | 11.2 | 11.5 | 10.7                    | 10.1 | 9.3 | 9.5                     | 7.9 |     | 6.0                     | 6.1 |     | 4.1                     | 4.2 |     |
| 58.0                                                                               | 9.9                     | 10.4 | 10.8 | 10.0                    | 9.5  | 8.6 | 8.8                     | 7.3 | 6.1 | 6.0                     | 5.7 |     | 4.0                     | 3.9 |     |
| 62.0                                                                               | 9.3                     | 9.7  | 10.0 | 9.4                     | 8.9  | 8.0 | 8.3                     | 6.8 | 5.7 | 6.0                     | 5.1 | 4.0 | 4.0                     | 3.4 |     |
| 66.0                                                                               | 7.9                     | 9.0  | 9.3  | 8.8                     | 8.3  | 7.5 | 7.8                     | 6.4 | 5.2 | 5.6                     | 4.5 | 3.5 | 4.0                     | 2.9 | 2.0 |
| 70.0                                                                               |                         | 8.2  | 8.7  | 7.7                     | 7.9  | 6.7 | 7.4                     | 5.9 | 4.5 | 5.1                     | 4.0 | 2.9 | 3.6                     | 2.5 | 1.6 |
| 74.0                                                                               |                         |      |      |                         | 7.0  | 5.9 |                         | 5.4 | 3.9 |                         | 3.6 | 2.4 | 3.2                     | 2.1 |     |
| 78.0                                                                               |                         |      |      |                         |      |     |                         | 4.7 | 3.3 |                         | 3.2 | 1.8 |                         | 1.8 |     |
| 82.0                                                                               |                         |      |      |                         |      |     |                         |     | 2.8 |                         |     |     |                         | 1.6 |     |



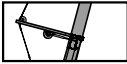
|  m | 15.0 m + 2.5 m + 76.0 m |      |     | 25.1 m + 2.5 m + 76.0 m |      |     | 35.3 m + 2.5 m + 76.0 m |     |     | 40.4 m + 2.5 m + 76.0 m |     |     | 45.4 m + 2.5 m + 76.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 83°                     | 75°  | 68° | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 28.0                                                                                 | 12.8                    |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |
| 30.0                                                                                 | 12.7                    |      |     | 11.5                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 32.0                                                                                 | 12.5                    |      |     | 11.4                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 34.0                                                                                 | 12.2                    |      |     | 11.2                    |      |     | 8.9                     |     |     |                         |     |     |                         |     |     |
| 36.0                                                                                 | 11.9                    |      |     | 10.9                    |      |     | 8.8                     |     |     | 6.9                     |     |     | 5.1                     |     |     |
| 38.0                                                                                 | 11.5                    |      |     | 10.7                    |      |     | 8.8                     |     |     | 6.9                     |     |     | 5.0                     |     |     |
| 40.0                                                                                 | 11.1                    | 11.6 |     | 10.4                    |      |     | 8.7                     |     |     | 6.8                     |     |     | 5.0                     |     |     |
| 42.0                                                                                 | 10.6                    | 11.1 |     | 10.1                    |      |     | 8.6                     |     |     | 6.8                     |     |     | 5.0                     |     |     |
| 44.0                                                                                 | 10.2                    | 10.7 |     | 9.8                     | 10.3 |     | 8.6                     |     |     | 6.7                     |     |     | 5.0                     |     |     |
| 46.0                                                                                 | 9.8                     | 10.3 |     | 9.5                     | 10.0 |     | 8.5                     |     |     | 6.7                     |     |     | 5.0                     |     |     |
| 48.0                                                                                 | 9.4                     | 9.9  |     | 9.2                     | 9.6  |     | 8.4                     | 7.3 |     | 6.7                     |     |     | 4.9                     |     |     |
| 50.0                                                                                 | 9.1                     | 9.5  | 9.9 | 8.9                     | 9.3  |     | 8.2                     | 7.0 |     | 6.6                     | 6.2 |     | 4.9                     |     |     |
| 54.0                                                                                 | 8.4                     | 8.8  | 9.1 | 8.3                     | 8.6  |     | 7.9                     | 6.5 |     | 6.5                     | 5.6 |     | 4.8                     | 4.9 |     |
| 58.0                                                                                 | 7.8                     | 8.1  | 8.4 | 7.8                     | 8.1  | 7.2 | 7.5                     | 6.0 |     | 6.5                     | 5.2 |     | 4.7                     | 4.7 |     |
| 62.0                                                                                 | 7.2                     | 7.5  | 7.8 | 7.3                     | 7.5  | 6.7 | 7.0                     | 5.5 | 4.4 | 6.4                     | 4.8 |     | 4.7                     | 4.5 |     |
| 66.0                                                                                 | 6.7                     | 7.0  | 7.3 | 6.8                     | 7.1  | 6.2 | 6.6                     | 5.1 | 4.0 | 6.0                     | 4.4 | 3.1 | 4.7                     | 4.1 | 2.6 |
| 70.0                                                                                 | 6.3                     | 6.6  | 6.8 | 6.4                     | 6.7  | 5.8 | 6.2                     | 4.8 | 3.5 | 5.6                     | 4.0 | 2.6 | 4.7                     | 3.7 | 2.0 |
| 74.0                                                                                 | 5.5                     | 6.1  | 6.3 | 6.0                     | 6.2  | 5.1 | 5.9                     | 4.5 | 2.9 | 5.3                     | 3.7 | 2.0 | 4.3                     | 3.2 | 1.5 |
| 78.0                                                                                 |                         |      | 5.9 |                         | 5.5  | 4.4 |                         | 3.8 | 2.4 | 5.0                     | 3.2 | 1.5 | 4.0                     | 2.8 |     |
| 82.0                                                                                 |                         |      |     |                         |      | 3.8 |                         | 3.3 | 1.9 |                         | 2.6 |     |                         | 2.3 |     |
| 86.0                                                                                 |                         |      |     |                         |      |     |                         |     |     |                         | 2.1 |     |                         | 1.8 |     |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



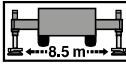
35.3 – 55.6 m



22.8 – 78.5 m



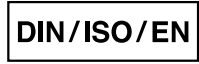
8.5 m



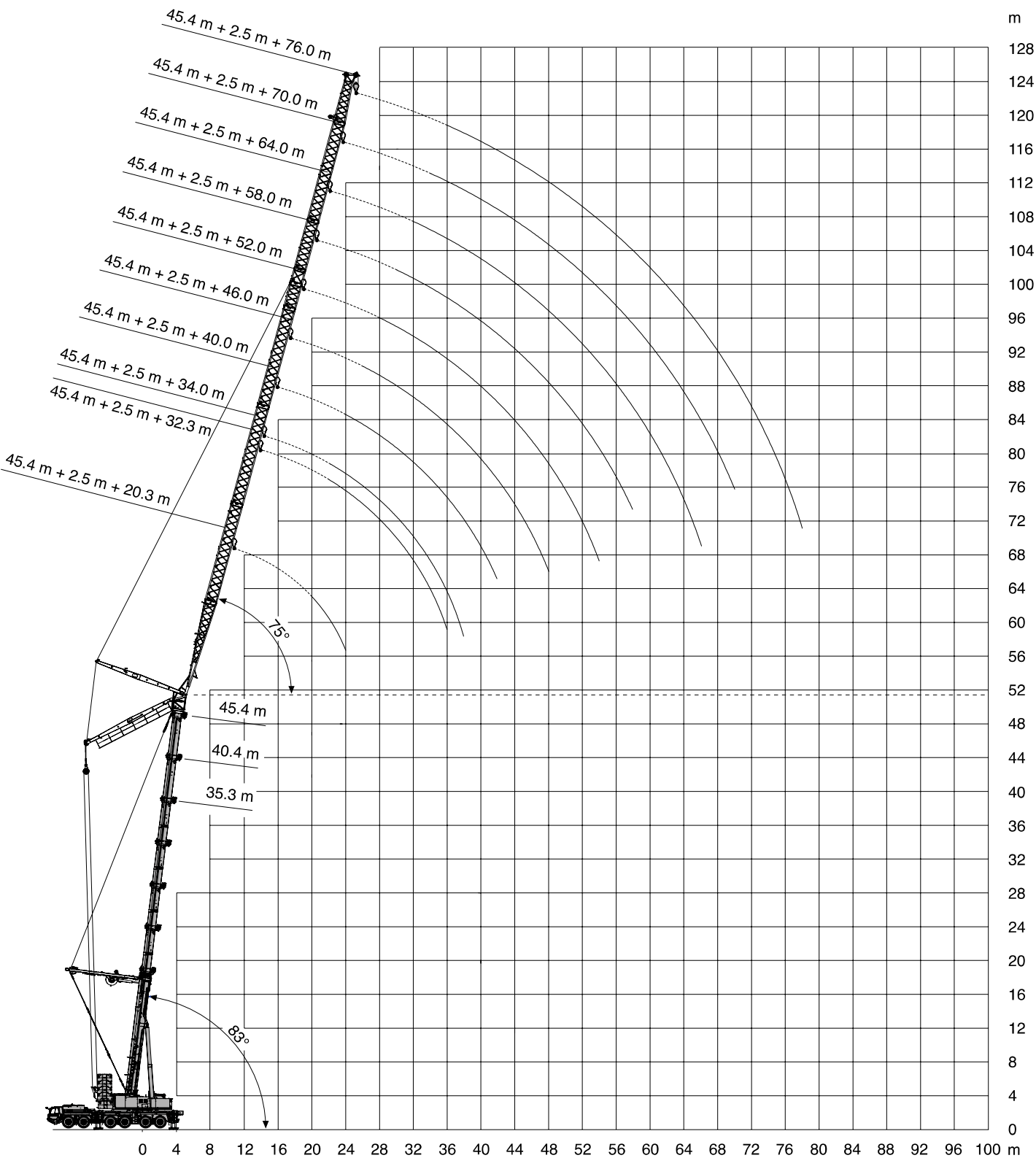
360°

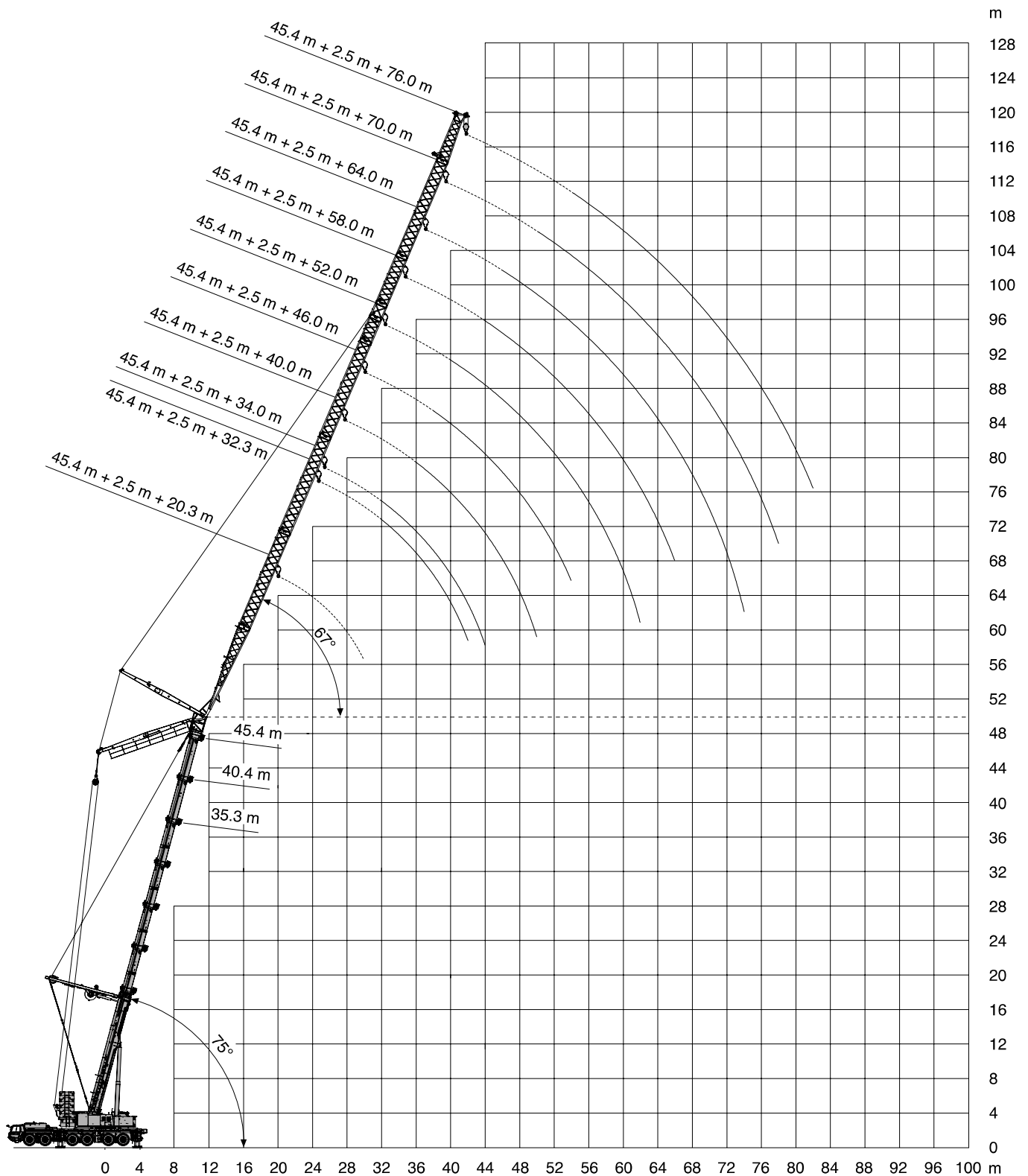
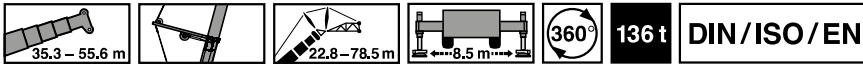


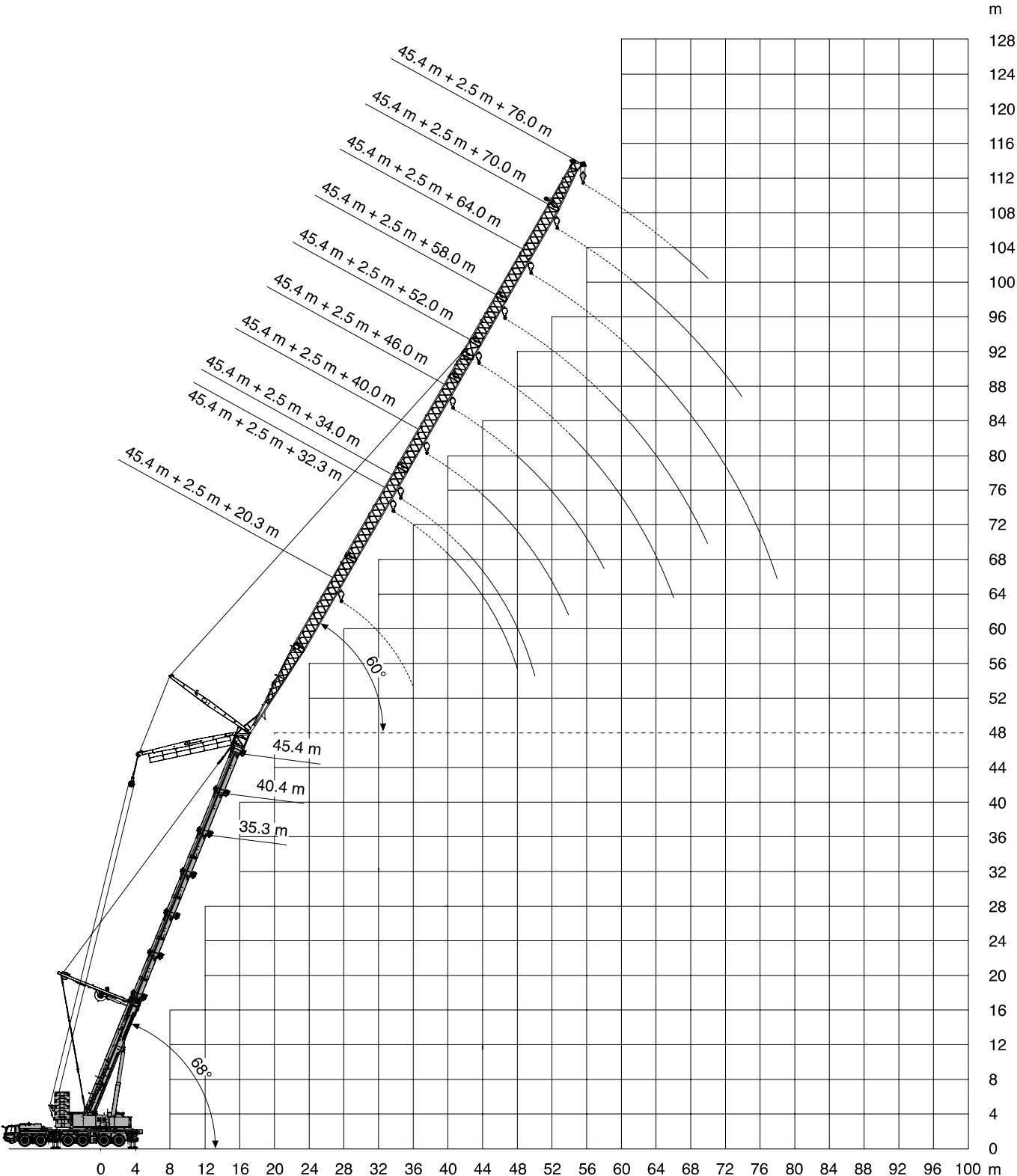
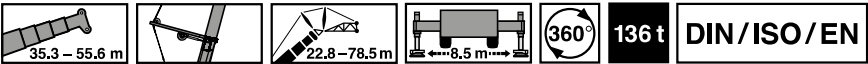
136 t



DIN/ISO/EN



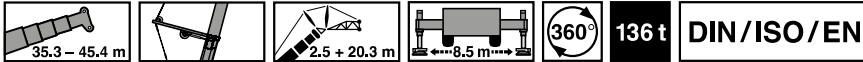




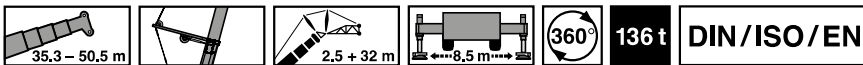


Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

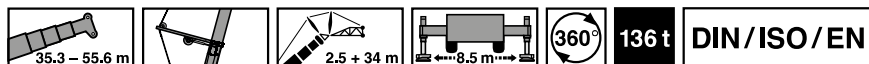


|  m | 35.3 m + 2.5 m + 20.3 m |      |      | 40.4 m + 2.5 m + 20.3 m |      |      | 45.4 m + 2.5 m + 20.3 m |      |      |  |  |  |  |  |  |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|--|--|--|--|--|--|
|                                                                                    | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  |  |  |  |  |  |  |
| 16.0                                                                               | 39.8                    |      |      |                         |      |      |                         |      |      |  |  |  |  |  |  |
| 18.0                                                                               | 35.5                    |      |      | 31.1                    |      |      |                         |      |      |  |  |  |  |  |  |
| 20.0                                                                               | 31.7                    |      |      | 27.6                    |      |      | 26.7                    |      |      |  |  |  |  |  |  |
| 22.0                                                                               | 28.0                    |      |      | 22.0                    |      |      | 21.5                    |      |      |  |  |  |  |  |  |
| 24.0                                                                               |                         | 30.1 |      | 18.7                    |      |      | 18.5                    |      |      |  |  |  |  |  |  |
| 26.0                                                                               |                         | 27.2 |      |                         | 21.4 |      |                         |      |      |  |  |  |  |  |  |
| 28.0                                                                               |                         | 21.3 |      |                         | 19.0 |      |                         |      |      |  |  |  |  |  |  |
| 30.0                                                                               |                         |      | 22.8 |                         | 16.5 |      |                         | 16.4 |      |  |  |  |  |  |  |
| 32.0                                                                               |                         |      | 20.3 |                         |      |      |                         |      |      |  |  |  |  |  |  |
| 34.0                                                                               |                         |      |      |                         |      | 15.9 |                         |      |      |  |  |  |  |  |  |
| 36.0                                                                               |                         |      |      |                         |      |      |                         |      | 14.0 |  |  |  |  |  |  |

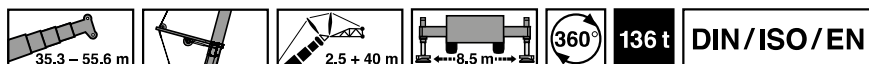


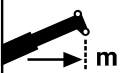
|  m | 35.3 m + 2.5 m + 32.3 m |      |      | 40.4 m + 2.5 m + 32.3 m |      |      | 45.4 m + 2.5 m + 32.3 m |      |      | 50.5 m + 2.5 m + 32.3 m |      |      |  |  |  |
|-------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|--|--|--|
|                                                                                     | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  |  |  |  |
| 18.0                                                                                | 30.8                    |      |      |                         |      |      |                         |      |      |                         |      |      |  |  |  |
| 20.0                                                                                | 30.3                    |      |      | 20.8                    |      |      |                         |      |      |                         |      |      |  |  |  |
| 22.0                                                                                | 29.4                    |      |      | 20.3                    |      |      | 16.5                    |      |      | 12.5                    |      |      |  |  |  |
| 24.0                                                                                | 26.9                    |      |      | 19.9                    |      |      | 16.1                    |      |      | 12.1                    |      |      |  |  |  |
| 26.0                                                                                | 22.4                    |      |      | 19.0                    |      |      | 15.8                    |      |      | 11.9                    |      |      |  |  |  |
| 28.0                                                                                | 20.4                    | 22.8 |      | 17.5                    |      |      | 15.6                    |      |      | 11.7                    |      |      |  |  |  |
| 30.0                                                                                | 18.6                    | 20.9 |      | 16.0                    | 17.7 |      | 15.3                    |      |      | 11.6                    |      |      |  |  |  |
| 32.0                                                                                | 16.9                    | 19.3 |      | 14.5                    | 16.2 |      | 13.9                    | 15.1 |      | 11.3                    |      |      |  |  |  |
| 34.0                                                                                | 15.2                    | 17.8 | 19.2 | 13.1                    | 15.0 |      | 12.5                    | 14.2 |      | 11.0                    | 11.5 |      |  |  |  |
| 36.0                                                                                |                         | 16.3 | 17.8 |                         | 13.8 |      | 11.1                    | 13.0 |      | 11.0                    | 11.2 |      |  |  |  |
| 38.0                                                                                |                         | 14.9 | 16.5 |                         | 12.6 | 13.7 |                         | 12.0 |      |                         | 10.9 |      |  |  |  |
| 40.0                                                                                |                         | 13.4 | 15.3 |                         | 11.5 | 12.7 |                         | 11.0 | 11.9 |                         | 10.7 |      |  |  |  |
| 42.0                                                                                |                         |      | 14.1 |                         | 10.3 | 11.7 |                         | 9.9  | 11.0 |                         | 10.2 |      |  |  |  |
| 44.0                                                                                |                         |      | 12.9 |                         |      | 10.8 |                         |      | 10.2 |                         | 9.1  | 10.6 |  |  |  |
| 46.0                                                                                |                         |      |      |                         |      | 9.9  |                         |      | 9.4  |                         |      | 9.4  |  |  |  |
| 48.0                                                                                |                         |      |      |                         |      |      |                         |      | 8.6  |                         |      | 8.6  |  |  |  |
| 50.0                                                                                |                         |      |      |                         |      |      |                         |      |      |                         |      | 7.9  |  |  |  |

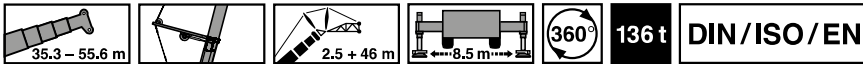
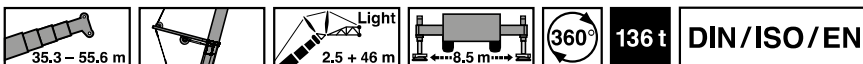
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|  m | 35.3 m + 2.5 m + 34.0 m |      |      | 40.4 m + 2.5 m + 34.0 m |      |      | 45.4 m + 2.5 m + 34.0 m |      |      | 50.5 m + 2.5 m + 34.0 m |      |      | 55.6 m + 2.5 m + 34.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|-----|-----|
|                                                                                    | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75° | 68° |
| 18.0                                                                               | 27.8                    |      |      |                         |      |      |                         |      |      |                         |      |      |                         |     |     |
| 20.0                                                                               | 24.4                    |      |      | 19.8                    |      |      |                         |      |      |                         |      |      |                         |     |     |
| 22.0                                                                               | 22.8                    |      |      | 19.3                    |      |      | 15.6                    |      |      |                         |      |      |                         |     |     |
| 24.0                                                                               | 21.2                    |      |      | 18.9                    |      |      | 15.2                    |      |      | 11.5                    |      |      | 7.9                     |     |     |
| 26.0                                                                               | 19.4                    |      |      | 18.4                    |      |      | 15.0                    |      |      | 11.4                    |      |      | 7.7                     |     |     |
| 28.0                                                                               | 17.7                    | 21.2 |      | 17.6                    |      |      | 14.7                    |      |      | 11.4                    |      |      | 7.7                     |     |     |
| 30.0                                                                               | 16.1                    | 19.5 |      | 16.1                    | 17.5 |      | 14.4                    |      |      | 11.1                    |      |      | 7.7                     |     |     |
| 32.0                                                                               | 14.6                    | 18.0 |      | 14.6                    | 16.3 |      | 13.8                    | 14.4 |      | 11.0                    |      |      | 7.7                     |     |     |
| 34.0                                                                               | 12.9                    | 16.6 |      | 13.3                    | 15.0 |      | 12.7                    | 14.1 |      | 10.7                    | 11.1 |      | 7.7                     |     |     |
| 36.0                                                                               |                         | 15.3 | 17.5 | 12.0                    | 13.8 |      | 11.4                    | 13.2 |      | 10.6                    | 10.8 |      | 7.5                     | 7.2 |     |
| 38.0                                                                               |                         | 14.0 | 16.2 |                         | 12.7 | 13.6 | 10.1                    | 12.0 |      | 10.4                    | 10.5 |      | 7.2                     | 7.2 |     |
| 40.0                                                                               |                         | 12.8 | 15.0 |                         | 11.7 | 12.6 |                         | 11.0 |      |                         | 10.5 |      |                         | 7.0 |     |
| 42.0                                                                               |                         | 11.4 | 13.9 |                         | 10.6 | 11.7 |                         | 10.1 | 11.0 |                         | 10.1 |      |                         | 7.0 |     |
| 44.0                                                                               |                         |      | 12.9 |                         |      | 10.8 |                         | 9.1  | 10.1 |                         | 9.3  | 10.3 |                         | 7.0 |     |
| 46.0                                                                               |                         |      | 11.8 |                         |      | 10.0 |                         |      | 9.4  |                         | 8.3  | 9.3  |                         | 6.6 | 6.9 |
| 48.0                                                                               |                         |      |      |                         |      | 9.1  |                         |      | 8.6  |                         |      | 8.6  |                         | 6.4 | 6.7 |
| 50.0                                                                               |                         |      |      |                         |      |      |                         |      | 7.8  |                         |      | 7.9  |                         |     | 6.4 |
| 54.0                                                                               |                         |      |      |                         |      |      |                         |      |      |                         |      |      |                         |     | 6.4 |

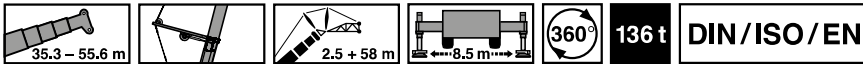


|  m | 35.3 m + 2.5 m + 40.0 m |      |      | 40.4 m + 2.5 m + 40.0 m |      |      | 45.4 m + 2.5 m + 40.0 m |      |      | 50.5 m + 2.5 m + 40.0 m |     |     | 55.6 m + 2.5 m + 40.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75°  | 68°  | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 20.0                                                                                 | 20.8                    |      |      |                         |      |      |                         |      |      |                         |     |     |                         |     |     |
| 22.0                                                                                 | 20.4                    |      |      | 17.2                    |      |      |                         |      |      |                         |     |     |                         |     |     |
| 24.0                                                                                 | 20.0                    |      |      | 16.8                    |      |      | 13.4                    |      |      |                         |     |     |                         |     |     |
| 26.0                                                                                 | 19.6                    |      |      | 16.5                    |      |      | 13.2                    |      |      | 10.3                    |     |     | 8.2                     |     |     |
| 28.0                                                                                 | 18.7                    |      |      | 16.2                    |      |      | 13.1                    |      |      | 10.3                    |     |     | 8.0                     |     |     |
| 30.0                                                                                 | 17.7                    | 19.1 |      | 15.9                    |      |      | 13.0                    |      |      | 10.2                    |     |     | 7.8                     |     |     |
| 32.0                                                                                 | 16.7                    | 18.8 |      | 15.6                    |      |      | 12.8                    |      |      | 10.0                    |     |     | 7.7                     |     |     |
| 34.0                                                                                 | 15.7                    | 18.1 |      | 15.0                    | 15.4 |      | 12.7                    |      |      | 9.8                     |     |     | 7.5                     |     |     |
| 36.0                                                                                 | 14.8                    | 17.0 |      | 14.1                    | 15.0 |      | 12.4                    | 12.6 |      | 9.7                     |     |     | 7.3                     |     |     |
| 38.0                                                                                 | 14.0                    | 15.8 |      | 13.0                    | 14.2 |      | 11.3                    | 12.1 |      | 9.6                     | 9.7 |     | 7.2                     | 7.3 |     |
| 40.0                                                                                 | 12.9                    | 14.7 | 15.7 | 11.9                    | 13.2 |      | 10.3                    | 11.4 |      | 9.4                     | 9.5 |     | 7.0                     | 7.1 |     |
| 42.0                                                                                 | 11.5                    | 13.6 | 14.7 | 10.8                    | 12.3 | 13.0 | 9.3                     | 10.5 |      | 9.2                     | 9.4 |     | 6.9                     | 6.9 |     |
| 44.0                                                                                 |                         | 12.6 | 13.7 |                         | 11.5 | 12.2 |                         | 9.7  | 10.2 | 8.5                     | 9.2 |     | 6.7                     | 6.8 |     |
| 46.0                                                                                 |                         | 11.5 | 12.8 |                         | 10.6 | 11.4 |                         | 9.0  | 9.5  |                         | 8.8 |     |                         | 6.6 |     |
| 48.0                                                                                 |                         | 10.4 | 11.9 |                         | 9.8  | 10.7 |                         | 8.3  | 8.9  |                         | 8.3 | 8.8 |                         | 6.5 |     |
| 50.0                                                                                 |                         |      | 11.0 |                         |      | 10.0 |                         | 7.5  | 8.3  |                         | 7.6 | 8.1 |                         | 6.3 | 6.3 |
| 54.0                                                                                 |                         |      |      |                         |      |      |                         |      | 7.1  |                         |     | 7.0 |                         | 6.0 | 6.0 |
| 58.0                                                                                 |                         |      |      |                         |      |      |                         |      |      |                         |     | 5.9 |                         |     | 5.8 |

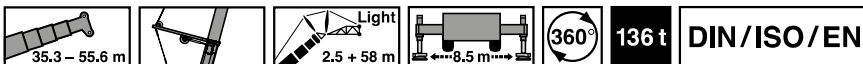
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[illegible][illegible]

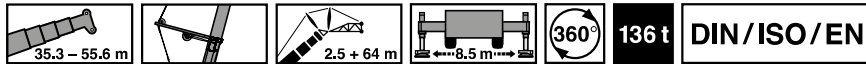


|  m | 35.3 m + 2.5 m + 58.0 m |      |     | 40.4 m + 2.5 m + 58.0 m |      |     | 45.4 m + 2.5 m + 58.0 m |     |     | 50.5 m + 2.5 m + 58.0 m |     |     | 55.6 m + 2.5 m + 58.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 83°                     | 75°  | 68° | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 26.0                                                                               | 14.1                    |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |
| 28.0                                                                               | 13.9                    |      |     | 11.2                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 30.0                                                                               | 13.8                    |      |     | 11.1                    |      |     | 8.7                     |     |     |                         |     |     |                         |     |     |
| 32.0                                                                               | 13.6                    |      |     | 11.0                    |      |     | 8.6                     |     |     | 6.1                     |     |     | 4.1                     |     |     |
| 34.0                                                                               | 13.4                    |      |     | 10.8                    |      |     | 8.5                     |     |     | 6.0                     |     |     | 4.0                     |     |     |
| 36.0                                                                               | 13.3                    |      |     | 10.7                    |      |     | 8.3                     |     |     | 6.0                     |     |     | 3.9                     |     |     |
| 38.0                                                                               | 13.2                    | 13.2 |     | 10.6                    |      |     | 8.3                     |     |     | 5.9                     |     |     | 3.8                     |     |     |
| 40.0                                                                               | 12.8                    | 12.8 |     | 10.5                    |      |     | 8.2                     |     |     | 5.8                     |     |     | 3.8                     |     |     |
| 42.0                                                                               | 12.1                    | 12.3 |     | 10.2                    | 10.3 |     | 8.1                     |     |     | 5.7                     |     |     | 3.7                     |     |     |
| 44.0                                                                               | 11.4                    | 11.7 |     | 10.0                    | 10.1 |     | 8.0                     | 8.0 |     | 5.7                     |     |     | 3.7                     |     |     |
| 46.0                                                                               | 10.7                    | 11.0 |     | 9.3                     | 9.5  |     | 7.9                     | 7.9 |     | 5.6                     | 5.5 |     | 3.6                     |     |     |
| 48.0                                                                               | 10.0                    | 10.3 | 9.9 | 8.7                     | 8.9  |     | 7.8                     | 7.7 |     | 5.5                     | 5.5 |     | 3.6                     | 3.5 |     |
| 50.0                                                                               | 9.3                     | 9.7  | 9.4 | 8.1                     | 8.3  |     | 7.4                     | 7.6 |     | 5.5                     | 5.4 |     | 3.6                     | 3.4 |     |
| 54.0                                                                               | 8.0                     | 8.5  | 8.6 | 7.0                     | 7.3  | 7.3 | 6.3                     | 6.5 |     | 5.4                     | 5.2 |     | 3.4                     | 3.3 |     |
| 58.0                                                                               | 6.8                     | 7.5  | 7.7 | 5.9                     | 6.4  | 6.5 | 5.4                     | 5.7 | 5.6 | 5.2                     | 5.1 | 4.8 | 3.4                     | 3.2 |     |
| 62.0                                                                               |                         | 6.4  | 6.8 |                         | 5.5  | 5.7 |                         | 4.9 | 4.9 |                         | 4.8 | 4.3 | 3.3                     | 3.1 | 3.0 |
| 66.0                                                                               |                         |      | 5.9 |                         | 4.6  | 5.0 |                         | 4.1 | 4.3 |                         | 4.0 | 3.6 |                         | 3.0 | 2.9 |
| 70.0                                                                               |                         |      |     |                         |      | 4.2 |                         |     | 3.7 |                         |     | 3.0 |                         | 2.9 | 2.3 |
| 74.0                                                                               |                         |      |     |                         |      |     |                         |     |     |                         |     | 2.4 |                         |     | 1.8 |

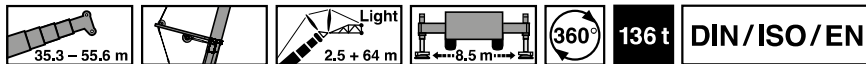


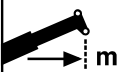
|  m | 35.3 m + 2.5 m + 58.0 m |      |     | 40.4 m + 2.5 m + 58.0 m |      |     | 45.4 m + 2.5 m + 58.0 m |     |     | 50.5 m + 2.5 m + 58.0 m |     |     | 55.6 m + 2.5 m + 58.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 83°                     | 75°  | 68° | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 26.0                                                                                 | 14.1                    |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |
| 28.0                                                                                 | 13.9                    |      |     | 11.3                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 30.0                                                                                 | 13.8                    |      |     | 11.2                    |      |     | 8.8                     |     |     |                         |     |     |                         |     |     |
| 32.0                                                                                 | 13.6                    |      |     | 11.1                    |      |     | 8.7                     |     |     | 6.4                     |     |     | 4.4                     |     |     |
| 34.0                                                                                 | 13.4                    |      |     | 11.0                    |      |     | 8.6                     |     |     | 6.3                     |     |     | 4.3                     |     |     |
| 36.0                                                                                 | 13.1                    |      |     | 10.8                    |      |     | 8.5                     |     |     | 6.2                     |     |     | 4.2                     |     |     |
| 38.0                                                                                 | 12.7                    | 13.3 |     | 10.7                    |      |     | 8.5                     |     |     | 6.1                     |     |     | 4.1                     |     |     |
| 40.0                                                                                 | 12.2                    | 13.0 |     | 10.6                    |      |     | 8.4                     |     |     | 6.1                     |     |     | 4.1                     |     |     |
| 42.0                                                                                 | 11.8                    | 12.6 |     | 10.5                    | 10.5 |     | 8.3                     |     |     | 6.0                     |     |     | 4.0                     |     |     |
| 44.0                                                                                 | 11.4                    | 12.1 |     | 10.3                    | 10.4 |     | 8.2                     | 8.2 |     | 5.9                     |     |     | 4.0                     |     |     |
| 46.0                                                                                 | 10.9                    | 11.4 |     | 9.7                     | 10.0 |     | 8.1                     | 8.1 |     | 5.8                     | 5.8 |     | 3.9                     |     |     |
| 48.0                                                                                 | 10.3                    | 10.7 |     | 9.0                     | 9.3  |     | 8.1                     | 8.0 |     | 5.8                     | 5.7 |     | 3.9                     | 3.7 |     |
| 50.0                                                                                 | 9.6                     | 10.1 | 9.9 | 8.4                     | 8.7  |     | 7.7                     | 7.9 |     | 5.7                     | 5.7 |     | 3.8                     | 3.7 |     |
| 54.0                                                                                 | 8.4                     | 8.9  | 9.1 | 7.3                     | 7.7  | 7.7 | 6.7                     | 6.9 |     | 5.6                     | 5.5 |     | 3.7                     | 3.6 |     |
| 58.0                                                                                 | 7.1                     | 7.8  | 8.1 | 6.2                     | 6.7  | 6.8 | 5.7                     | 6.0 | 6.0 | 5.5                     | 5.4 | 5.3 | 3.7                     | 3.5 |     |
| 62.0                                                                                 |                         | 6.8  | 7.1 |                         | 5.8  | 6.0 |                         | 5.2 | 5.3 |                         | 5.1 | 4.8 | 3.5                     | 3.4 | 3.2 |
| 66.0                                                                                 |                         |      | 6.3 |                         | 4.9  | 5.3 |                         | 4.5 | 4.6 |                         | 4.4 | 4.3 |                         | 3.3 | 3.2 |
| 70.0                                                                                 |                         |      |     |                         |      | 4.6 |                         |     | 4.0 |                         |     | 3.7 |                         | 3.2 | 3.0 |
| 74.0                                                                                 |                         |      |     |                         |      |     |                         |     |     |                         |     | 3.1 |                         |     | 2.5 |

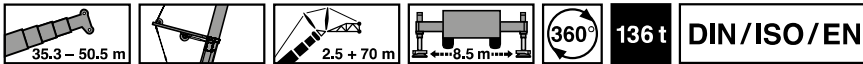
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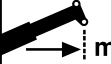


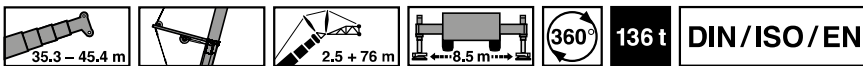
|  m | 35.3 m + 2.5 m + 64.0 m |      |     | 40.4 m + 2.5 m + 64.0 m |     |     | 45.4 m + 2.5 m + 64.0 m |     |     | 50.5 m + 2.5 m + 64.0 m |     |     | 55.6 m + 2.5 m + 64.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 28.0                                                                               | 12.3                    |      |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 30.0                                                                               | 12.1                    |      |     | 9.6                     |     |     |                         |     |     |                         |     |     |                         |     |     |
| 32.0                                                                               | 12.0                    |      |     | 9.5                     |     |     | 7.4                     |     |     | 5.1                     |     |     |                         |     |     |
| 34.0                                                                               | 11.9                    |      |     | 9.4                     |     |     | 7.3                     |     |     | 5.0                     |     |     | 3.1                     |     |     |
| 36.0                                                                               | 11.7                    |      |     | 9.3                     |     |     | 7.2                     |     |     | 5.0                     |     |     | 3.1                     |     |     |
| 38.0                                                                               | 11.6                    |      |     | 9.2                     |     |     | 7.1                     |     |     | 4.9                     |     |     | 3.0                     |     |     |
| 40.0                                                                               | 11.5                    |      |     | 9.1                     |     |     | 7.0                     |     |     | 4.8                     |     |     | 3.0                     |     |     |
| 42.0                                                                               | 11.4                    | 11.5 |     | 9.0                     |     |     | 7.0                     |     |     | 4.8                     |     |     | 2.9                     |     |     |
| 44.0                                                                               | 11.3                    | 11.0 |     | 8.9                     | 8.9 |     | 6.9                     |     |     | 4.7                     |     |     | 2.9                     |     |     |
| 46.0                                                                               | 11.2                    | 10.5 |     | 8.8                     | 8.9 |     | 6.8                     | 6.8 |     | 4.7                     |     |     | 2.9                     |     |     |
| 48.0                                                                               | 11.0                    | 10.1 |     | 8.7                     | 8.6 |     | 6.8                     | 6.7 |     | 4.6                     | 4.5 |     | 2.8                     |     |     |
| 50.0                                                                               | 10.3                    | 9.7  |     | 8.3                     | 8.2 |     | 6.7                     | 6.7 |     | 4.6                     | 4.5 |     | 2.8                     | 2.6 |     |
| 54.0                                                                               | 9.1                     | 8.9  | 7.5 | 7.2                     | 7.4 |     | 6.4                     | 6.5 |     | 4.5                     | 4.4 |     | 2.7                     | 2.5 |     |
| 58.0                                                                               | 7.9                     | 8.3  | 6.9 | 6.3                     | 6.5 | 5.5 | 5.7                     | 5.7 |     | 4.4                     | 4.3 |     | 2.6                     | 2.5 |     |
| 62.0                                                                               | 6.8                     | 7.5  | 6.3 | 5.3                     | 5.7 | 5.0 | 4.8                     | 5.0 | 4.0 | 4.4                     | 4.2 | 3.5 | 2.6                     | 2.4 |     |
| 66.0                                                                               |                         | 6.5  | 5.6 |                         | 4.9 | 4.4 | 4.0                     | 4.3 | 3.4 | 4.0                     | 4.1 | 2.9 | 2.6                     | 2.3 | 2.1 |
| 70.0                                                                               |                         | 5.6  | 4.9 |                         | 4.2 | 3.8 |                         | 3.6 | 2.8 |                         | 3.5 | 2.3 |                         | 2.3 | 1.6 |
| 74.0                                                                               |                         |      | 4.2 |                         |     | 3.2 |                         | 3.0 | 2.3 |                         | 2.9 | 1.8 |                         | 2.3 |     |
| 78.0                                                                               |                         |      |     |                         |     |     |                         |     | 1.8 |                         |     |     |                         |     |     |



|  m | 35.3 m + 2.5 m + 64.0 m |      |     | 40.4 m + 2.5 m + 64.0 m |     |     | 45.4 m + 2.5 m + 64.0 m |     |     | 50.5 m + 2.5 m + 64.0 m |     |     | 55.6 m + 2.5 m + 64.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 83°                     | 75°  | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |
| 28.0                                                                                 | 12.3                    |      |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 30.0                                                                                 | 12.1                    |      |     | 9.5                     |     |     |                         |     |     |                         |     |     |                         |     |     |
| 32.0                                                                                 | 11.7                    |      |     | 9.5                     |     |     | 7.4                     |     |     |                         |     |     |                         |     |     |
| 34.0                                                                                 | 11.4                    |      |     | 9.4                     |     |     | 7.3                     |     |     | 5.1                     |     |     | 3.4                     |     |     |
| 36.0                                                                                 | 11.0                    |      |     | 9.3                     |     |     | 7.3                     |     |     | 5.0                     |     |     | 3.3                     |     |     |
| 38.0                                                                                 | 10.6                    |      |     | 9.2                     |     |     | 7.2                     |     |     | 5.0                     |     |     | 3.3                     |     |     |
| 40.0                                                                                 | 10.2                    |      |     | 9.0                     |     |     | 7.1                     |     |     | 5.0                     |     |     | 3.2                     |     |     |
| 42.0                                                                                 | 9.8                     | 10.8 |     | 8.8                     |     |     | 7.1                     |     |     | 5.0                     |     |     | 3.2                     |     |     |
| 44.0                                                                                 | 9.4                     | 10.4 |     | 8.6                     | 9.0 |     | 7.0                     |     |     | 4.9                     |     |     | 3.2                     |     |     |
| 46.0                                                                                 | 9.0                     | 10.0 |     | 8.3                     | 8.8 |     | 6.9                     | 6.9 |     | 4.8                     |     |     | 3.1                     |     |     |
| 48.0                                                                                 | 8.6                     | 9.6  |     | 8.1                     | 8.7 |     | 6.9                     | 6.8 |     | 4.8                     | 4.7 |     | 3.1                     |     |     |
| 50.0                                                                                 | 8.3                     | 9.2  |     | 7.8                     | 8.4 |     | 6.8                     | 6.8 |     | 4.7                     | 4.7 |     | 3.1                     | 2.9 |     |
| 54.0                                                                                 | 7.6                     | 8.5  | 7.9 | 7.3                     | 7.7 |     | 6.6                     | 6.7 |     | 4.7                     | 4.6 |     | 2.9                     | 2.8 |     |
| 58.0                                                                                 | 7.0                     | 7.8  | 7.3 | 6.6                     | 6.8 | 6.1 | 6.0                     | 6.1 |     | 4.6                     | 4.5 |     | 2.9                     | 2.7 |     |
| 62.0                                                                                 | 6.4                     | 7.1  | 6.7 | 5.6                     | 6.0 | 5.6 | 5.1                     | 5.3 | 4.6 | 4.6                     | 4.4 | 3.9 | 2.9                     | 2.7 |     |
| 66.0                                                                                 |                         | 6.6  | 6.2 | 4.7                     | 5.2 | 5.1 | 4.2                     | 4.6 | 4.1 | 4.3                     | 4.3 | 3.4 | 2.8                     | 2.6 | 2.4 |
| 70.0                                                                                 |                         | 6.1  | 5.4 |                         | 4.5 | 4.4 |                         | 4.0 | 3.5 |                         | 3.8 | 2.9 |                         | 2.6 | 2.3 |
| 74.0                                                                                 |                         |      | 4.8 |                         |     | 3.8 |                         | 3.3 | 2.9 |                         | 3.2 | 2.3 |                         | 2.5 | 1.8 |
| 78.0                                                                                 |                         |      |     |                         |     |     |                         |     | 2.4 |                         |     | 1.9 |                         |     |     |



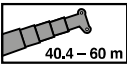
|  m | 35.3 m + 2.5 m + 70.0 m |     |     | 40.4 m + 2.5 m + 70.0 m |     |     | 45.4 m + 2.5 m + 70.0 m |     |     | 50.5 m + 2.5 m + 70.0 m |     |     |  |  |  |
|------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|--|--|--|
|                                                                                    | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |  |  |  |
| 32.0                                                                               | 10.3                    |     |     |                         |     |     |                         |     |     |                         |     |     |  |  |  |
| 34.0                                                                               | 10.2                    |     |     | 8.0                     |     |     | 6.1                     |     |     |                         |     |     |  |  |  |
| 36.0                                                                               | 10.1                    |     |     | 8.0                     |     |     | 6.0                     |     |     | 3.9                     |     |     |  |  |  |
| 38.0                                                                               | 10.0                    |     |     | 7.9                     |     |     | 5.9                     |     |     | 3.8                     |     |     |  |  |  |
| 40.0                                                                               | 9.9                     |     |     | 7.8                     |     |     | 5.8                     |     |     | 3.8                     |     |     |  |  |  |
| 42.0                                                                               | 9.8                     |     |     | 7.8                     |     |     | 5.8                     |     |     | 3.8                     |     |     |  |  |  |
| 44.0                                                                               | 9.7                     |     |     | 7.7                     |     |     | 5.8                     |     |     | 3.8                     |     |     |  |  |  |
| 46.0                                                                               | 9.7                     | 9.1 |     | 7.6                     |     |     | 5.7                     |     |     | 3.8                     |     |     |  |  |  |
| 48.0                                                                               | 9.6                     | 8.7 |     | 7.6                     | 7.4 |     | 5.6                     |     |     | 3.7                     |     |     |  |  |  |
| 50.0                                                                               | 9.5                     | 8.4 |     | 7.5                     | 7.1 |     | 5.6                     | 5.6 |     | 3.7                     |     |     |  |  |  |
| 54.0                                                                               | 9.1                     | 7.7 |     | 7.1                     | 6.5 |     | 5.5                     | 5.5 |     | 3.6                     | 3.5 |     |  |  |  |
| 58.0                                                                               | 8.2                     | 7.1 | 5.8 | 6.4                     | 6.0 |     | 5.4                     | 5.4 |     | 3.6                     | 3.4 |     |  |  |  |
| 62.0                                                                               | 7.1                     | 6.6 | 5.3 | 5.5                     | 5.5 | 4.1 | 5.0                     | 4.9 | 3.5 | 3.5                     | 3.3 |     |  |  |  |
| 66.0                                                                               | 6.2                     | 6.2 | 4.9 | 4.7                     | 4.9 | 3.7 | 4.2                     | 4.2 | 3.0 | 3.5                     | 3.3 | 2.1 |  |  |  |
| 70.0                                                                               | 5.2                     | 5.7 | 4.2 | 4.0                     | 4.3 | 3.1 | 3.5                     | 3.6 | 2.4 | 3.4                     | 3.3 | 1.6 |  |  |  |
| 74.0                                                                               |                         | 5.1 | 3.6 |                         | 3.6 | 2.5 |                         | 3.1 | 1.9 |                         | 3.0 |     |  |  |  |
| 78.0                                                                               |                         |     | 3.0 |                         | 3.0 | 2.0 |                         | 2.6 |     |                         | 2.4 |     |  |  |  |
| 82.0                                                                               |                         |     |     |                         |     | 1.5 |                         |     |     |                         |     |     |  |  |  |



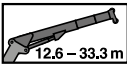
|  m | 35.3 m + 2.5 m + 76.0 m |     |     | 40.4 m + 2.5 m + 76.0 m |     |     | 45.4 m + 2.5 m + 76.0 m |     |     |  |  |  |  |  |  |
|--------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|--|--|--|--|--|--|
|                                                                                      | 83°                     | 75° | 68° | 83°                     | 75° | 68° | 83°                     | 75° | 68° |  |  |  |  |  |  |
| 34.0                                                                                 | 8.6                     |     |     |                         |     |     |                         |     |     |  |  |  |  |  |  |
| 36.0                                                                                 | 8.6                     |     |     | 6.6                     |     |     | 4.8                     |     |     |  |  |  |  |  |  |
| 38.0                                                                                 | 8.5                     |     |     | 6.5                     |     |     | 4.8                     |     |     |  |  |  |  |  |  |
| 40.0                                                                                 | 8.4                     |     |     | 6.5                     |     |     | 4.8                     |     |     |  |  |  |  |  |  |
| 42.0                                                                                 | 8.3                     |     |     | 6.4                     |     |     | 4.7                     |     |     |  |  |  |  |  |  |
| 44.0                                                                                 | 8.3                     |     |     | 6.4                     |     |     | 4.7                     |     |     |  |  |  |  |  |  |
| 46.0                                                                                 | 8.2                     |     |     | 6.3                     |     |     | 4.6                     |     |     |  |  |  |  |  |  |
| 48.0                                                                                 | 8.1                     | 7.1 |     | 6.3                     |     |     | 4.6                     |     |     |  |  |  |  |  |  |
| 50.0                                                                                 | 8.0                     | 6.8 |     | 6.3                     | 5.9 |     | 4.6                     |     |     |  |  |  |  |  |  |
| 54.0                                                                                 | 7.7                     | 6.3 |     | 6.2                     | 5.4 |     | 4.5                     | 4.4 |     |  |  |  |  |  |  |
| 58.0                                                                                 | 7.3                     | 5.8 |     | 6.0                     | 4.9 |     | 4.4                     | 4.4 |     |  |  |  |  |  |  |
| 62.0                                                                                 | 6.9                     | 5.3 | 4.0 | 5.4                     | 4.5 |     | 4.3                     | 4.1 |     |  |  |  |  |  |  |
| 66.0                                                                                 | 6.2                     | 4.9 | 3.7 | 4.7                     | 4.1 | 2.7 | 4.1                     | 3.7 | 2.1 |  |  |  |  |  |  |
| 70.0                                                                                 | 5.4                     | 4.6 | 3.2 | 4.0                     | 3.8 | 2.2 | 3.5                     | 3.4 | 1.5 |  |  |  |  |  |  |
| 74.0                                                                                 | 4.6                     | 4.2 | 2.6 | 3.4                     | 3.5 | 1.7 | 3.0                     | 3.0 |     |  |  |  |  |  |  |
| 78.0                                                                                 |                         | 3.7 | 2.0 |                         | 3.0 |     | 2.4                     | 2.5 |     |  |  |  |  |  |  |
| 82.0                                                                                 |                         | 3.1 | 1.6 |                         | 2.4 |     |                         | 2.0 |     |  |  |  |  |  |  |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

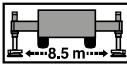
Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



40.4 – 60 m



12.6 – 33.3 m



8.5 m

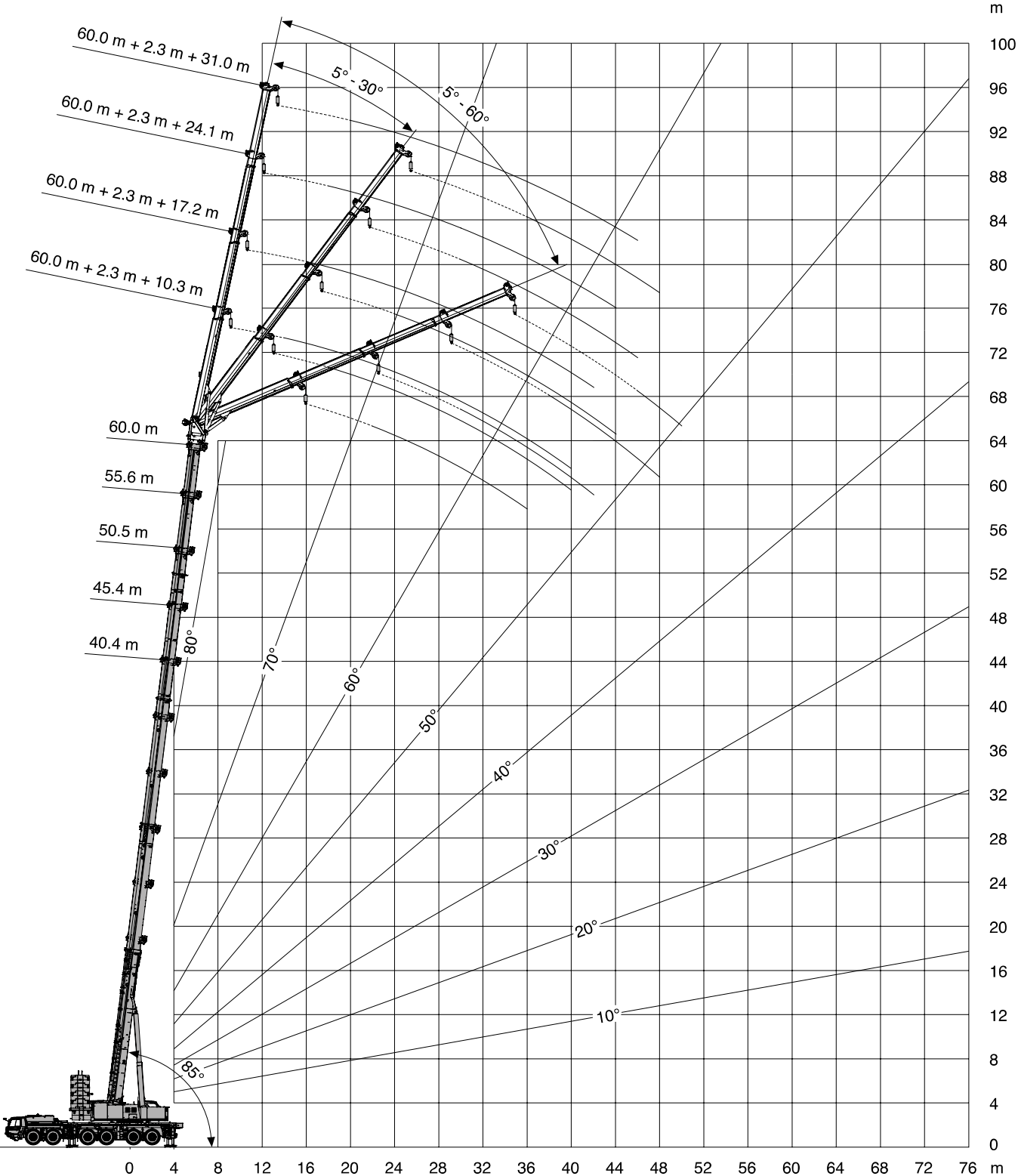


360°



116 t

DIN/ISO/EN

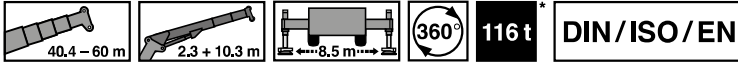


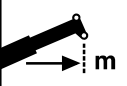
\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento

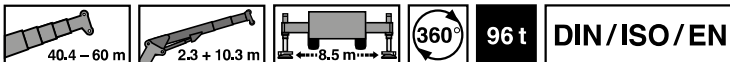


Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

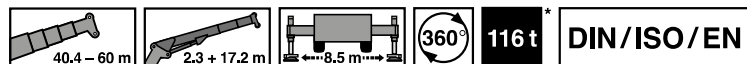


|  m | 40.4 m + 2.3 m + 10.3 m |      |      | 45.4 m + 2.3 m + 10.3 m |      |      | 50.5 m + 2.3 m + 10.3 m |      |      | 55.6 m + 2.3 m + 10.3 m |      |     | 60.0 m + 2.3 m + 10.3 m |      |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|------|-----|
|                                                                                    | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60° | 5°                      | 30°  | 60° |
| 9.0                                                                                | 38.4                    |      |      |                         |      |      |                         |      |      |                         |      |     |                         |      |     |
| 10.0                                                                               | 36.0                    |      |      | 29.3                    |      |      |                         |      |      |                         |      |     |                         |      |     |
| 11.0                                                                               | 33.8                    |      |      | 27.6                    |      |      | 21.2                    |      |      |                         |      |     |                         |      |     |
| 12.0                                                                               | 31.9                    |      |      | 26.1                    |      |      | 20.0                    |      |      | 16.1                    |      |     |                         |      |     |
| 14.0                                                                               | 28.6                    | 25.2 |      | 23.5                    | 20.5 |      | 17.8                    |      |      | 15.6                    |      |     | 13.2                    |      |     |
| 16.0                                                                               | 25.8                    | 23.5 | 21.1 | 21.3                    | 18.8 |      | 16.0                    | 14.2 |      | 13.9                    |      |     | 12.8                    |      |     |
| 18.0                                                                               | 23.5                    | 21.6 | 20.3 | 19.5                    | 17.4 | 15.4 | 14.5                    | 13.1 | 11.0 | 12.5                    | 11.2 |     | 11.5                    | 10.5 |     |
| 20.0                                                                               | 21.5                    | 19.9 | 19.0 | 17.9                    | 16.1 | 15.1 | 13.2                    | 12.1 | 10.7 | 11.3                    | 10.4 | 8.5 | 10.4                    | 9.7  |     |
| 22.0                                                                               | 19.8                    | 18.5 | 17.7 | 16.5                    | 15.0 | 14.1 | 12.1                    | 11.1 | 10.5 | 10.3                    | 9.6  | 8.2 | 9.4                     | 8.9  | 8.3 |
| 24.0                                                                               | 18.3                    | 17.2 | 16.5 | 15.3                    | 14.0 | 13.2 | 11.1                    | 10.3 | 9.7  | 9.3                     | 8.8  | 8.0 | 8.2                     | 8.0  | 7.7 |
| 26.0                                                                               | 17.0                    | 16.0 | 15.5 | 14.2                    | 13.1 | 12.5 | 10.2                    | 9.5  | 9.1  | 8.1                     | 7.8  | 7.5 | 7.1                     | 7.0  | 6.7 |
| 28.0                                                                               | 15.8                    | 15.0 | 14.6 | 13.3                    | 12.3 | 11.8 | 9.3                     | 8.7  | 8.3  | 7.0                     | 6.8  | 6.6 | 6.1                     | 6.0  | 5.9 |
| 30.0                                                                               | 13.9                    | 14.0 |      | 12.1                    | 11.6 | 11.2 | 8.3                     | 7.8  | 7.5  | 6.1                     | 6.0  | 5.8 | 5.2                     | 5.2  | 5.1 |
| 32.0                                                                               | 12.1                    | 12.7 |      | 10.8                    | 10.7 |      | 7.4                     | 7.0  | 6.7  | 5.2                     | 5.2  | 5.0 | 4.4                     | 4.4  | 4.3 |
| 34.0                                                                               | 10.5                    | 11.1 |      | 9.7                     | 9.6  |      | 6.6                     | 6.3  |      | 4.5                     | 4.4  | 4.3 | 3.6                     | 3.7  | 3.6 |
| 36.0                                                                               | 9.1                     | 9.6  |      | 8.3                     | 8.7  |      | 5.8                     | 5.6  |      | 3.8                     | 3.8  | 3.7 | 3.0                     | 3.1  | 3.0 |
| 38.0                                                                               | 7.9                     | 8.3  |      | 7.1                     | 7.6  |      | 5.1                     | 4.9  |      | 3.1                     | 3.2  |     | 2.3                     | 2.5  |     |
| 40.0                                                                               | 6.7                     | 7.1  |      | 5.9                     | 6.4  |      | 4.5                     | 4.4  |      | 2.5                     | 2.6  |     | 1.8                     | 1.9  |     |
| 42.0                                                                               | 5.7                     | 6.0  |      | 4.9                     | 5.4  |      | 4.0                     | 3.8  |      | 2.0                     | 2.1  |     |                         |      |     |
| 44.0                                                                               | 4.8                     | 5.0  |      | 4.0                     | 4.4  |      | 3.5                     | 3.4  |      | 1.5                     | 1.6  |     |                         |      |     |
| 46.0                                                                               | 3.9                     |      |      | 3.2                     | 3.5  |      | 2.8                     | 2.9  |      |                         |      |     |                         |      |     |
| 48.0                                                                               | 3.1                     |      |      | 2.4                     | 2.6  |      | 2.0                     | 2.4  |      |                         |      |     |                         |      |     |
| 50.0                                                                               |                         |      |      | 1.7                     |      |      |                         | 1.6  |      |                         |      |     |                         |      |     |

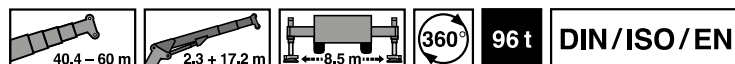


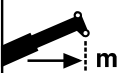
|  m | 40.4 m + 2.3 m + 10.3 m |      |      | 45.4 m + 2.3 m + 10.3 m |      |      | 50.5 m + 2.3 m + 10.3 m |      |      | 55.6 m + 2.3 m + 10.3 m |      |     | 60.0 m + 2.3 m + 10.3 m |      |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|------|-----|
|                                                                                      | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60° | 5°                      | 30°  | 60° |
| 9.0                                                                                  | 38.4                    |      |      |                         |      |      |                         |      |      |                         |      |     |                         |      |     |
| 10.0                                                                                 | 36.0                    |      |      | 29.3                    |      |      |                         |      |      |                         |      |     |                         |      |     |
| 11.0                                                                                 | 33.8                    |      |      | 27.6                    |      |      | 21.2                    |      |      |                         |      |     |                         |      |     |
| 12.0                                                                                 | 31.9                    |      |      | 26.1                    |      |      | 20.0                    |      |      | 16.1                    |      |     |                         |      |     |
| 14.0                                                                                 | 28.6                    | 25.2 |      | 23.5                    | 20.5 |      | 17.8                    |      |      | 15.6                    |      |     | 13.2                    |      |     |
| 16.0                                                                                 | 25.8                    | 23.5 | 21.1 | 21.3                    | 18.8 |      | 16.0                    | 14.2 |      | 13.9                    |      |     | 12.8                    |      |     |
| 18.0                                                                                 | 23.5                    | 21.6 | 20.3 | 19.5                    | 17.4 | 15.4 | 14.5                    | 13.1 | 11.0 | 12.5                    | 11.2 |     | 11.5                    | 10.5 |     |
| 20.0                                                                                 | 21.5                    | 19.9 | 19.0 | 17.9                    | 16.1 | 15.1 | 13.2                    | 12.1 | 10.7 | 11.3                    | 10.4 | 8.5 | 10.4                    | 9.7  |     |
| 22.0                                                                                 | 19.8                    | 18.5 | 17.7 | 16.5                    | 15.0 | 14.1 | 12.1                    | 11.1 | 10.5 | 10.3                    | 9.6  | 8.2 | 9.4                     | 8.9  | 8.3 |
| 24.0                                                                                 | 18.3                    | 17.2 | 16.5 | 15.3                    | 14.0 | 13.2 | 11.1                    | 10.3 | 9.7  | 9.3                     | 8.8  | 8.0 | 8.2                     | 8.0  | 7.7 |
| 26.0                                                                                 | 17.0                    | 16.0 | 15.5 | 14.2                    | 13.1 | 12.5 | 10.2                    | 9.5  | 9.1  | 8.1                     | 7.8  | 7.5 | 7.1                     | 7.0  | 6.7 |
| 28.0                                                                                 | 15.8                    | 15.0 | 14.6 | 13.3                    | 12.3 | 11.8 | 9.3                     | 8.7  | 8.3  | 7.0                     | 6.8  | 6.6 | 6.1                     | 6.0  | 5.9 |
| 30.0                                                                                 | 13.9                    | 14.0 |      | 12.1                    | 11.6 | 11.2 | 8.3                     | 7.8  | 7.5  | 6.1                     | 6.0  | 5.8 | 5.2                     | 5.2  | 5.1 |
| 32.0                                                                                 | 12.1                    | 12.7 |      | 10.8                    | 10.7 |      | 7.4                     | 7.0  | 6.7  | 5.2                     | 5.2  | 5.0 | 4.4                     | 4.4  | 4.3 |
| 34.0                                                                                 | 10.5                    | 11.1 |      | 9.7                     | 9.6  |      | 6.6                     | 6.3  |      | 4.5                     | 4.4  | 4.3 | 3.6                     | 3.7  | 3.6 |
| 36.0                                                                                 | 9.1                     | 9.6  |      | 8.3                     | 8.7  |      | 5.8                     | 5.6  |      | 3.8                     | 3.8  | 3.7 | 3.0                     | 3.1  | 3.0 |
| 38.0                                                                                 | 7.9                     | 8.3  |      | 7.1                     | 7.6  |      | 5.1                     | 4.9  |      | 3.1                     | 3.2  |     | 2.3                     | 2.5  |     |
| 40.0                                                                                 | 6.7                     | 7.1  |      | 5.9                     | 6.4  |      | 4.5                     | 4.4  |      | 2.5                     | 2.6  |     | 1.8                     | 1.9  |     |
| 42.0                                                                                 | 5.7                     | 6.0  |      | 4.9                     | 5.4  |      | 4.0                     | 3.8  |      | 2.0                     | 2.1  |     |                         |      |     |
| 44.0                                                                                 | 4.8                     | 5.0  |      | 4.0                     | 4.4  |      | 3.5                     | 3.4  |      | 1.5                     | 1.6  |     |                         |      |     |
| 46.0                                                                                 | 3.9                     |      |      | 3.2                     | 3.5  |      | 2.8                     | 2.9  |      |                         |      |     |                         |      |     |
| 48.0                                                                                 | 3.1                     |      |      | 2.4                     | 2.6  |      | 2.0                     | 2.4  |      |                         |      |     |                         |      |     |
| 50.0                                                                                 |                         |      |      | 1.7                     |      |      |                         | 1.6  |      |                         |      |     |                         |      |     |

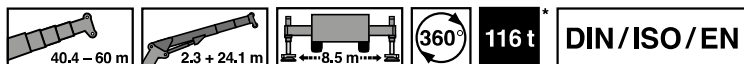
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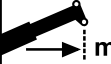


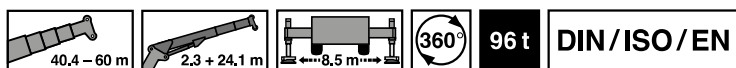
|  m | 40.4 m + 2.3 m + 17.2 m |      |      | 45.4 m + 2.3 m + 17.2 m |      |      | 50.5 m + 2.3 m + 17.2 m |     |     | 55.6 m + 2.3 m + 17.2 m |     |     | 60.0 m + 2.3 m + 17.2 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 10.0                                                                               | 16.7                    |      |      |                         |      |      |                         |     |     |                         |     |     |                         |     |     |
| 11.0                                                                               | 16.7                    |      |      |                         |      |      |                         |     |     |                         |     |     |                         |     |     |
| 12.0                                                                               | 16.7                    |      |      | 16.7                    |      |      |                         |     |     |                         |     |     |                         |     |     |
| 14.0                                                                               | 16.7                    |      |      | 16.7                    |      |      | 16.5                    |     |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 16.7                    |      |      | 16.7                    |      |      | 15.0                    |     |     | 12.7                    |     |     | 8.8                     |     |     |
| 18.0                                                                               | 16.7                    | 16.7 |      | 16.7                    |      |      | 13.6                    |     |     | 11.6                    |     |     | 8.8                     |     |     |
| 20.0                                                                               | 16.7                    | 15.9 |      | 16.4                    | 14.3 |      | 12.4                    |     |     | 10.7                    |     |     | 8.8                     |     |     |
| 22.0                                                                               | 16.7                    | 15.2 |      | 15.2                    | 13.3 |      | 11.4                    | 9.8 |     | 9.8                     | 8.3 |     | 8.8                     |     |     |
| 24.0                                                                               | 16.7                    | 14.5 | 12.9 | 14.1                    | 12.5 |      | 10.5                    | 9.2 |     | 8.9                     | 7.8 |     | 8.5                     | 7.5 |     |
| 26.0                                                                               | 15.9                    | 13.9 | 12.5 | 13.1                    | 11.7 | 10.1 | 9.7                     | 8.7 | 7.7 | 8.0                     | 7.3 |     | 7.5                     | 7.0 |     |
| 28.0                                                                               | 14.8                    | 13.3 | 12.1 | 12.2                    | 11.0 | 9.9  | 8.9                     | 8.2 | 7.4 | 7.0                     | 6.8 | 6.2 | 6.5                     | 6.5 |     |
| 30.0                                                                               | 13.9                    | 12.8 | 11.8 | 11.4                    | 10.3 | 9.7  | 8.2                     | 7.6 | 7.1 | 6.1                     | 6.1 | 5.9 | 5.6                     | 5.7 | 5.7 |
| 32.0                                                                               | 13.0                    | 12.2 | 11.6 | 10.7                    | 9.7  | 9.2  | 7.3                     | 6.9 | 6.6 | 5.3                     | 5.3 | 5.3 | 4.9                     | 5.0 | 5.0 |
| 34.0                                                                               | 11.9                    | 11.5 | 11.2 | 10.0                    | 9.2  | 8.7  | 6.5                     | 6.2 | 6.0 | 4.6                     | 4.7 | 4.6 | 4.1                     | 4.3 | 4.3 |
| 36.0                                                                               | 10.5                    | 10.9 | 10.6 | 9.1                     | 8.7  | 8.3  | 5.9                     | 5.6 | 5.4 | 3.9                     | 4.1 | 4.0 | 3.5                     | 3.7 | 3.7 |
| 38.0                                                                               | 9.3                     | 10.1 |      | 8.2                     | 8.0  | 7.7  | 5.2                     | 5.0 | 4.9 | 3.3                     | 3.5 | 3.5 | 2.9                     | 3.2 | 3.2 |
| 40.0                                                                               | 8.2                     | 9.0  |      | 7.4                     | 7.4  |      | 4.6                     | 4.5 | 4.4 | 2.8                     | 3.0 | 3.0 | 2.3                     | 2.6 | 2.7 |
| 42.0                                                                               | 7.1                     | 7.9  |      | 6.4                     | 6.8  |      | 4.1                     | 4.0 |     | 2.3                     | 2.5 | 2.5 | 1.8                     | 2.1 | 2.2 |
| 44.0                                                                               | 6.2                     | 6.9  |      | 5.5                     | 6.1  |      | 3.6                     | 3.6 |     | 1.8                     | 2.0 |     |                         | 1.7 |     |
| 46.0                                                                               | 5.3                     | 5.9  |      | 4.6                     | 5.4  |      | 3.2                     | 3.1 |     |                         | 1.6 |     |                         |     |     |
| 48.0                                                                               | 4.6                     | 5.0  |      | 3.8                     | 4.5  |      | 2.7                     | 2.7 |     |                         |     |     |                         |     |     |
| 50.0                                                                               | 3.8                     | 4.2  |      | 3.1                     | 3.7  |      | 2.4                     | 2.4 |     |                         |     |     |                         |     |     |
| 54.0                                                                               | 2.5                     |      |      | 1.9                     | 2.2  |      | 1.5                     | 1.7 |     |                         |     |     |                         |     |     |

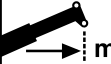


|  m | 40.4 m + 2.3 m + 17.2 m |      |      | 45.4 m + 2.3 m + 17.2 m |      |      | 50.5 m + 2.3 m + 17.2 m |     |     | 55.6 m + 2.3 m + 17.2 m |     |     | 60.0 m + 2.3 m + 17.2 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 10.0                                                                                 | 16.7                    |      |      |                         |      |      |                         |     |     |                         |     |     |                         |     |     |
| 11.0                                                                                 | 16.7                    |      |      |                         |      |      |                         |     |     |                         |     |     |                         |     |     |
| 12.0                                                                                 | 16.7                    |      |      | 16.7                    |      |      |                         |     |     |                         |     |     |                         |     |     |
| 14.0                                                                                 | 16.7                    |      |      | 16.7                    |      |      | 16.5                    |     |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 16.7                    |      |      | 16.7                    |      |      | 15.0                    |     |     | 12.7                    |     |     | 8.8                     |     |     |
| 18.0                                                                                 | 16.7                    | 16.7 |      | 16.7                    |      |      | 13.6                    |     |     | 11.6                    |     |     | 8.8                     |     |     |
| 20.0                                                                                 | 16.7                    | 15.9 |      | 16.4                    | 14.3 |      | 12.4                    |     |     | 10.7                    |     |     | 8.8                     |     |     |
| 22.0                                                                                 | 16.7                    | 15.2 |      | 15.2                    | 13.3 |      | 11.4                    | 9.8 |     | 9.8                     | 8.3 |     | 8.8                     |     |     |
| 24.0                                                                                 | 16.7                    | 14.5 | 12.9 | 14.1                    | 12.5 |      | 10.5                    | 9.2 |     | 8.9                     | 7.8 |     | 8.5                     | 7.5 |     |
| 26.0                                                                                 | 15.9                    | 13.9 | 12.5 | 13.1                    | 11.7 | 10.1 | 9.7                     | 8.7 | 7.7 | 8.0                     | 7.3 |     | 7.5                     | 7.0 |     |
| 28.0                                                                                 | 14.8                    | 13.3 | 12.1 | 12.2                    | 11.0 | 9.9  | 8.9                     | 8.2 | 7.4 | 7.0                     | 6.8 | 6.2 | 6.5                     | 6.5 |     |
| 30.0                                                                                 | 13.9                    | 12.8 | 11.8 | 11.4                    | 10.3 | 9.7  | 8.2                     | 7.6 | 7.1 | 6.1                     | 6.1 | 5.9 | 5.6                     | 5.7 | 5.7 |
| 32.0                                                                                 | 13.0                    | 12.2 | 11.6 | 10.7                    | 9.7  | 9.2  | 7.3                     | 6.9 | 6.6 | 5.3                     | 5.3 | 5.3 | 4.9                     | 5.0 | 5.0 |
| 34.0                                                                                 | 11.9                    | 11.5 | 11.2 | 10.0                    | 9.2  | 8.7  | 6.5                     | 6.2 | 6.0 | 4.6                     | 4.7 | 4.6 | 4.1                     | 4.3 | 4.3 |
| 36.0                                                                                 | 10.5                    | 10.9 | 10.6 | 9.1                     | 8.7  | 8.3  | 5.9                     | 5.6 | 5.4 | 3.9                     | 4.1 | 4.0 | 3.5                     | 3.7 | 3.7 |
| 38.0                                                                                 | 9.3                     | 10.1 |      | 8.2                     | 8.0  | 7.7  | 5.2                     | 5.0 | 4.9 | 3.3                     | 3.5 | 3.5 | 2.9                     | 3.2 | 3.2 |
| 40.0                                                                                 | 8.2                     | 9.0  |      | 7.4                     | 7.4  |      | 4.6                     | 4.5 | 4.4 | 2.8                     | 3.0 | 3.0 | 2.3                     | 2.6 | 2.7 |
| 42.0                                                                                 | 7.1                     | 7.9  |      | 6.4                     | 6.8  |      | 4.1                     | 4.0 |     | 2.3                     | 2.5 | 2.5 | 1.8                     | 2.1 | 2.2 |
| 44.0                                                                                 | 6.2                     | 6.9  |      | 5.5                     | 6.1  |      | 3.6                     | 3.6 |     | 1.8                     | 2.0 |     |                         | 1.7 |     |
| 46.0                                                                                 | 5.3                     | 5.9  |      | 4.6                     | 5.4  |      | 3.2                     | 3.1 |     |                         | 1.6 |     |                         |     |     |
| 48.0                                                                                 | 4.6                     | 5.0  |      | 3.8                     | 4.5  |      | 2.7                     | 2.7 |     |                         |     |     |                         |     |     |
| 50.0                                                                                 | 3.8                     | 4.2  |      | 3.1                     | 3.7  |      | 2.4                     | 2.4 |     |                         |     |     |                         |     |     |
| 54.0                                                                                 | 2.5                     |      |      | 1.9                     | 2.2  |      | 1.5                     | 1.7 |     |                         |     |     |                         |     |     |

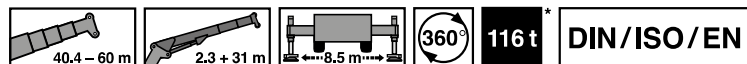


|  m | 40.4 m + 2.3 m + 24.1 m |      |     | 45.4 m + 2.3 m + 24.1 m |      |     | 50.5 m + 2.3 m + 24.1 m |     |     | 55.6 m + 2.3 m + 24.1 m |     |     | 60.0 m + 2.3 m + 24.1 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 5°                      | 30°  | 60° | 5°                      | 30°  | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 14.0                                                                               | 16.0                    |      |     | 14.5                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 15.5                    |      |     | 14.5                    |      |     | 13.0                    |     |     |                         |     |     |                         |     |     |
| 18.0                                                                               | 15.0                    |      |     | 14.1                    |      |     | 12.4                    |     |     | 10.3                    |     |     | 7.8                     |     |     |
| 20.0                                                                               | 14.5                    |      |     | 13.7                    |      |     | 11.5                    |     |     | 10.1                    |     |     | 7.8                     |     |     |
| 22.0                                                                               | 13.9                    |      |     | 13.4                    |      |     | 10.7                    |     |     | 9.3                     |     |     | 7.8                     |     |     |
| 24.0                                                                               | 13.4                    | 10.8 |     | 13.0                    |      |     | 9.9                     |     |     | 8.6                     |     |     | 7.8                     |     |     |
| 26.0                                                                               | 12.9                    | 10.5 |     | 12.1                    | 10.1 |     | 9.1                     | 7.5 |     | 8.0                     |     |     | 7.5                     |     |     |
| 28.0                                                                               | 12.5                    | 10.1 |     | 11.3                    | 9.8  |     | 8.4                     | 7.1 |     | 7.3                     | 6.3 |     | 6.6                     |     |     |
| 30.0                                                                               | 12.1                    | 9.8  | 8.5 | 10.6                    | 9.4  |     | 7.8                     | 6.8 |     | 6.5                     | 5.9 |     | 5.8                     | 5.3 |     |
| 32.0                                                                               | 11.7                    | 9.5  | 8.4 | 9.9                     | 8.9  | 7.3 | 7.1                     | 6.4 |     | 5.7                     | 5.6 |     | 5.0                     | 4.9 |     |
| 34.0                                                                               | 11.3                    | 9.3  | 8.3 | 9.3                     | 8.4  | 7.2 | 6.4                     | 6.1 | 5.4 | 5.0                     | 5.1 |     | 4.4                     | 4.5 |     |
| 36.0                                                                               | 10.9                    | 9.0  | 8.2 | 8.8                     | 7.9  | 7.1 | 5.7                     | 5.5 | 5.2 | 4.4                     | 4.6 | 4.3 | 3.7                     | 4.1 |     |
| 38.0                                                                               | 10.2                    | 8.8  | 8.1 | 8.2                     | 7.5  | 7.0 | 5.1                     | 5.0 | 4.8 | 3.8                     | 4.0 | 4.0 | 3.2                     | 3.5 | 3.5 |
| 40.0                                                                               | 9.1                     | 8.5  | 8.0 | 7.5                     | 6.9  | 6.5 | 4.6                     | 4.5 | 4.4 | 3.2                     | 3.5 | 3.6 | 2.6                     | 3.0 | 3.2 |
| 42.0                                                                               | 8.1                     | 8.2  |     | 6.9                     | 6.4  | 6.1 | 4.1                     | 4.0 | 3.9 | 2.7                     | 3.0 | 3.1 | 2.1                     | 2.6 | 2.7 |
| 44.0                                                                               | 7.2                     | 8.0  |     | 6.2                     | 5.9  |     | 3.6                     | 3.6 | 3.5 | 2.3                     | 2.6 | 2.7 | 1.7                     | 2.1 | 2.3 |
| 46.0                                                                               | 6.3                     | 7.3  |     | 5.6                     | 5.5  |     | 3.2                     | 3.2 |     | 1.9                     | 2.2 | 2.3 |                         | 1.7 | 1.9 |
| 48.0                                                                               | 5.6                     | 6.5  |     | 4.9                     | 5.1  |     | 2.8                     | 2.8 |     | 1.5                     | 1.8 |     |                         |     | 1.5 |
| 50.0                                                                               | 4.9                     | 5.7  |     | 4.2                     | 4.7  |     | 2.4                     | 2.5 |     |                         |     |     |                         |     |     |
| 54.0                                                                               | 3.6                     | 4.2  |     | 2.9                     | 3.7  |     | 1.7                     | 1.8 |     |                         |     |     |                         |     |     |
| 58.0                                                                               | 2.5                     | 2.9  |     | 1.8                     | 2.4  |     |                         |     |     |                         |     |     |                         |     |     |
| 62.0                                                                               | 1.5                     |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |

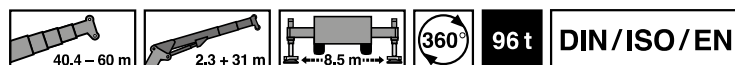


|  m | 40.4 m + 2.3 m + 24.1 m |      |     | 45.4 m + 2.3 m + 24.1 m |      |     | 50.5 m + 2.3 m + 24.1 m |     |     | 55.6 m + 2.3 m + 24.1 m |     |     | 60.0 m + 2.3 m + 24.1 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 5°                      | 30°  | 60° | 5°                      | 30°  | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 14.0                                                                                 | 16.0                    |      |     | 14.5                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 15.5                    |      |     | 14.5                    |      |     | 13.0                    |     |     |                         |     |     |                         |     |     |
| 18.0                                                                                 | 15.0                    |      |     | 14.1                    |      |     | 12.4                    |     |     | 10.3                    |     |     | 7.8                     |     |     |
| 20.0                                                                                 | 14.5                    |      |     | 13.7                    |      |     | 11.5                    |     |     | 10.1                    |     |     | 7.8                     |     |     |
| 22.0                                                                                 | 13.9                    |      |     | 13.4                    |      |     | 10.7                    |     |     | 9.3                     |     |     | 7.8                     |     |     |
| 24.0                                                                                 | 13.4                    | 10.8 |     | 13.0                    |      |     | 9.9                     |     |     | 8.6                     |     |     | 7.8                     |     |     |
| 26.0                                                                                 | 12.9                    | 10.5 |     | 12.1                    | 10.1 |     | 9.1                     | 7.5 |     | 8.0                     |     |     | 7.5                     |     |     |
| 28.0                                                                                 | 12.5                    | 10.1 |     | 11.3                    | 9.8  |     | 8.4                     | 7.1 |     | 7.3                     | 6.3 |     | 6.6                     |     |     |
| 30.0                                                                                 | 12.1                    | 9.8  | 8.5 | 10.6                    | 9.4  |     | 7.8                     | 6.8 |     | 6.5                     | 5.9 |     | 5.8                     | 5.3 |     |
| 32.0                                                                                 | 11.7                    | 9.5  | 8.4 | 9.9                     | 8.9  | 7.3 | 7.1                     | 6.4 |     | 5.7                     | 5.6 |     | 5.0                     | 4.9 |     |
| 34.0                                                                                 | 11.3                    | 9.3  | 8.3 | 9.3                     | 8.4  | 7.2 | 6.4                     | 6.1 | 5.4 | 5.0                     | 5.1 |     | 4.4                     | 4.5 |     |
| 36.0                                                                                 | 10.9                    | 9.0  | 8.2 | 8.8                     | 7.9  | 7.1 | 5.7                     | 5.5 | 5.2 | 4.4                     | 4.6 | 4.3 | 3.7                     | 4.1 |     |
| 38.0                                                                                 | 10.2                    | 8.8  | 8.1 | 8.2                     | 7.5  | 7.0 | 5.1                     | 5.0 | 4.8 | 3.8                     | 4.0 | 4.0 | 3.2                     | 3.5 | 3.5 |
| 40.0                                                                                 | 9.1                     | 8.5  | 8.0 | 7.5                     | 6.9  | 6.5 | 4.6                     | 4.5 | 4.4 | 3.2                     | 3.5 | 3.6 | 2.6                     | 3.0 | 3.2 |
| 42.0                                                                                 | 8.1                     | 8.2  |     | 6.9                     | 6.4  | 6.1 | 4.1                     | 4.0 | 3.9 | 2.7                     | 3.0 | 3.1 | 2.1                     | 2.6 | 2.7 |
| 44.0                                                                                 | 7.2                     | 8.0  |     | 6.2                     | 5.9  |     | 3.6                     | 3.6 | 3.5 | 2.3                     | 2.6 | 2.7 | 1.7                     | 2.1 | 2.3 |
| 46.0                                                                                 | 6.3                     | 7.3  |     | 5.6                     | 5.5  |     | 3.2                     | 3.2 |     | 1.9                     | 2.2 | 2.3 |                         | 1.7 | 1.9 |
| 48.0                                                                                 | 5.6                     | 6.5  |     | 4.9                     | 5.1  |     | 2.8                     | 2.8 |     | 1.5                     | 1.8 |     |                         |     | 1.5 |
| 50.0                                                                                 | 4.9                     | 5.7  |     | 4.2                     | 4.7  |     | 2.4                     | 2.5 |     |                         |     |     |                         |     |     |
| 54.0                                                                                 | 3.6                     | 4.2  |     | 2.9                     | 3.7  |     | 1.7                     | 1.8 |     |                         |     |     |                         |     |     |
| 58.0                                                                                 | 2.5                     | 2.9  |     | 1.8                     | 2.4  |     |                         |     |     |                         |     |     |                         |     |     |
| 62.0                                                                                 | 1.5                     |      |     |                         |      |     |                         |     |     |                         |     |     |                         |     |     |

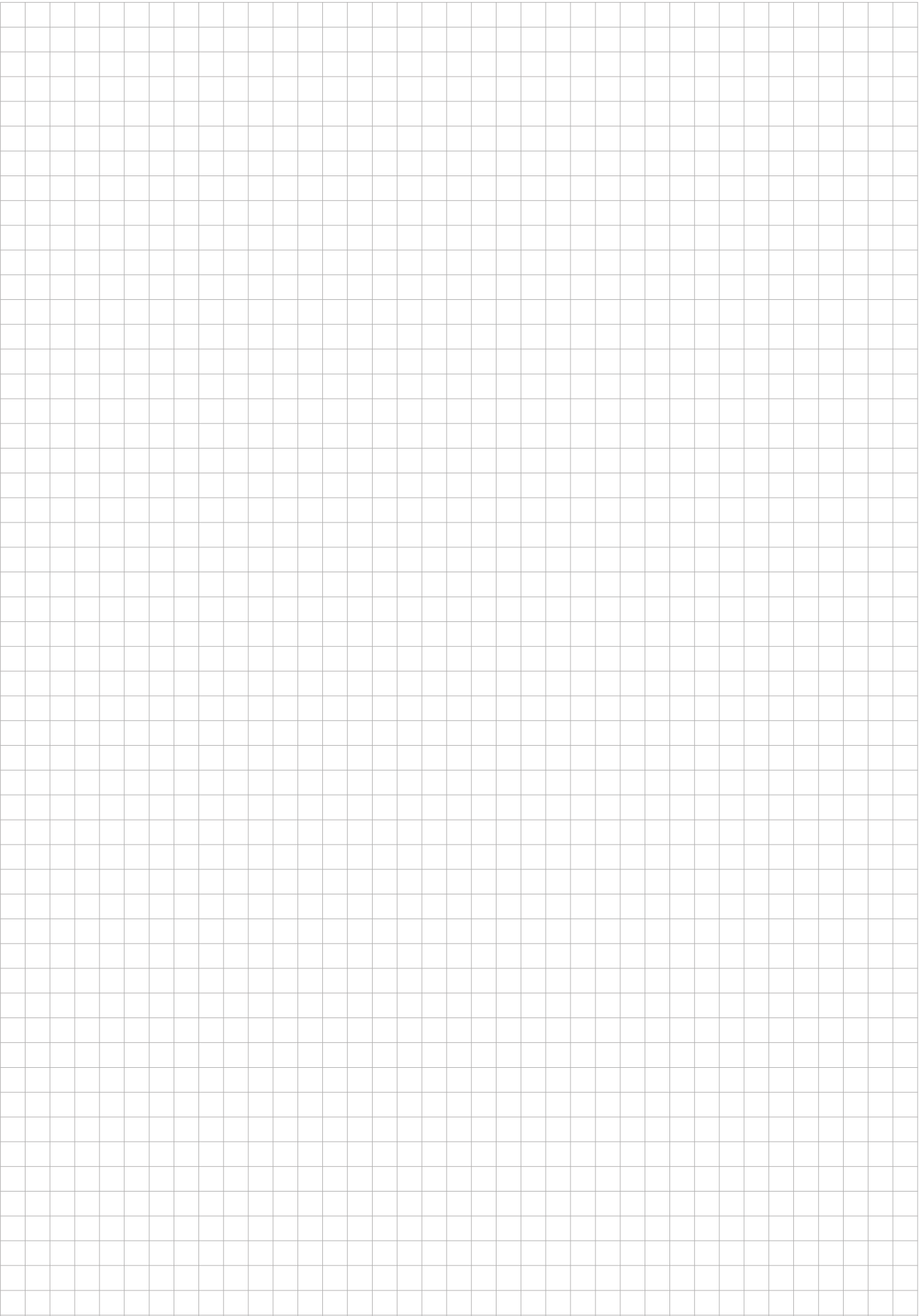
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Uso · Эксплуатация



|  m | 40.4 m + 2.3 m + 31.0 m |     |     | 45.4 m + 2.3 m + 31.0 m |     |     | 50.5 m + 2.3 m + 31.0 m |     |     | 55.6 m + 2.3 m + 31.0 m |     |     | 60.0 m + 2.3 m + 31.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 16.0                                                                               | 10.9                    |     |     | 10.2                    |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                               | 10.8                    |     |     | 10.0                    |     |     | 9.3                     |     |     |                         |     |     |                         |     |     |
| 20.0                                                                               | 10.5                    |     |     | 9.8                     |     |     | 9.3                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 22.0                                                                               | 10.3                    |     |     | 9.6                     |     |     | 9.2                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 24.0                                                                               | 10.0                    |     |     | 9.4                     |     |     | 9.0                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 26.0                                                                               | 9.7                     |     |     | 9.2                     |     |     | 8.7                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 28.0                                                                               | 9.2                     |     |     | 8.9                     |     |     | 8.2                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 30.0                                                                               | 8.8                     | 6.7 |     | 8.6                     | 6.5 |     | 7.7                     |     |     | 6.5                     |     |     | 5.8                     |     |     |
| 32.0                                                                               | 8.5                     | 6.4 |     | 8.2                     | 6.3 |     | 7.2                     | 5.9 |     | 5.8                     |     |     | 5.1                     |     |     |
| 34.0                                                                               | 8.1                     | 6.2 |     | 7.9                     | 6.1 |     | 6.6                     | 5.6 |     | 5.1                     | 4.9 |     | 4.4                     |     |     |
| 36.0                                                                               | 7.8                     | 6.1 |     | 7.6                     | 5.9 |     | 5.9                     | 5.3 |     | 4.5                     | 4.5 |     | 3.8                     | 3.6 |     |
| 38.0                                                                               | 7.5                     | 5.9 |     | 7.4                     | 5.7 |     | 5.3                     | 5.1 |     | 3.9                     | 4.1 |     | 3.3                     | 3.3 |     |
| 40.0                                                                               | 7.2                     | 5.7 | 5.0 | 7.1                     | 5.6 | 4.9 | 4.8                     | 4.7 |     | 3.4                     | 3.7 |     | 2.8                     | 3.0 |     |
| 42.0                                                                               | 7.0                     | 5.5 | 5.0 | 6.9                     | 5.4 | 4.9 | 4.3                     | 4.3 | 4.0 | 3.0                     | 3.3 |     | 2.3                     | 2.7 |     |
| 44.0                                                                               | 6.7                     | 5.4 | 4.9 | 6.3                     | 5.3 | 4.8 | 3.9                     | 3.9 | 3.7 | 2.5                     | 2.9 | 2.8 | 1.9                     | 2.5 |     |
| 46.0                                                                               | 6.5                     | 5.3 | 4.8 | 5.8                     | 5.2 | 4.7 | 3.4                     | 3.5 | 3.5 | 2.1                     | 2.5 | 2.6 | 1.5                     | 2.1 | 2.2 |
| 48.0                                                                               | 6.3                     | 5.1 |     | 5.4                     | 5.0 | 4.7 | 3.0                     | 3.1 | 3.1 | 1.7                     | 2.1 | 2.3 |                         | 1.7 | 2.0 |
| 50.0                                                                               | 5.9                     | 5.0 |     | 5.0                     | 4.7 |     | 2.7                     | 2.8 | 2.8 |                         | 1.8 | 2.0 |                         |     | 1.6 |
| 54.0                                                                               | 4.6                     | 4.8 |     | 3.9                     | 4.0 |     | 2.0                     | 2.2 |     |                         |     |     |                         |     |     |
| 58.0                                                                               | 3.5                     | 4.3 |     | 2.8                     | 3.3 |     |                         | 1.6 |     |                         |     |     |                         |     |     |
| 62.0                                                                               | 2.5                     | 3.1 |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 66.0                                                                               | 1.7                     |     |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |

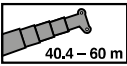


|  m | 40.4 m + 2.3 m + 31.0 m |     |     | 45.4 m + 2.3 m + 31.0 m |     |     | 50.5 m + 2.3 m + 31.0 m |     |     | 55.6 m + 2.3 m + 31.0 m |     |     | 60.0 m + 2.3 m + 31.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 16.0                                                                                 | 10.9                    |     |     | 10.2                    |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                                 | 10.8                    |     |     | 10.0                    |     |     | 9.3                     |     |     |                         |     |     |                         |     |     |
| 20.0                                                                                 | 10.5                    |     |     | 9.8                     |     |     | 9.3                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 22.0                                                                                 | 10.3                    |     |     | 9.6                     |     |     | 9.2                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 24.0                                                                                 | 10.0                    |     |     | 9.4                     |     |     | 9.0                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 26.0                                                                                 | 9.7                     |     |     | 9.2                     |     |     | 8.7                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 28.0                                                                                 | 9.2                     |     |     | 8.9                     |     |     | 8.2                     |     |     | 6.9                     |     |     | 6.2                     |     |     |
| 30.0                                                                                 | 8.8                     | 6.7 |     | 8.6                     | 6.5 |     | 7.7                     |     |     | 6.5                     |     |     | 5.8                     |     |     |
| 32.0                                                                                 | 8.5                     | 6.4 |     | 8.2                     | 6.3 |     | 7.2                     | 5.9 |     | 5.8                     |     |     | 5.1                     |     |     |
| 34.0                                                                                 | 8.1                     | 6.2 |     | 7.9                     | 6.1 |     | 6.6                     | 5.6 |     | 5.1                     | 4.9 |     | 4.4                     |     |     |
| 36.0                                                                                 | 7.8                     | 6.1 |     | 7.6                     | 5.9 |     | 5.9                     | 5.3 |     | 4.5                     | 4.5 |     | 3.8                     | 3.6 |     |
| 38.0                                                                                 | 7.5                     | 5.9 |     | 7.4                     | 5.7 |     | 5.3                     | 5.1 |     | 3.9                     | 4.1 |     | 3.3                     | 3.3 |     |
| 40.0                                                                                 | 7.2                     | 5.7 | 5.0 | 7.1                     | 5.6 | 4.9 | 4.8                     | 4.7 |     | 3.4                     | 3.7 |     | 2.8                     | 3.0 |     |
| 42.0                                                                                 | 7.0                     | 5.5 | 5.0 | 6.9                     | 5.4 | 4.9 | 4.3                     | 4.3 | 4.0 | 3.0                     | 3.3 |     | 2.3                     | 2.7 |     |
| 44.0                                                                                 | 6.7                     | 5.4 | 4.9 | 6.3                     | 5.3 | 4.8 | 3.9                     | 3.9 | 3.7 | 2.5                     | 2.9 | 2.8 | 1.9                     | 2.5 |     |
| 46.0                                                                                 | 6.5                     | 5.3 | 4.8 | 5.8                     | 5.2 | 4.7 | 3.4                     | 3.5 | 3.5 | 2.1                     | 2.5 | 2.6 | 1.5                     | 2.1 | 2.2 |
| 48.0                                                                                 | 6.3                     | 5.1 |     | 5.4                     | 5.0 | 4.7 | 3.0                     | 3.1 | 3.1 | 1.7                     | 2.1 | 2.3 |                         | 1.7 | 2.0 |
| 50.0                                                                                 | 5.9                     | 5.0 |     | 5.0                     | 4.7 |     | 2.7                     | 2.8 | 2.8 |                         | 1.8 | 2.0 |                         |     | 1.6 |
| 54.0                                                                                 | 4.6                     | 4.8 |     | 3.9                     | 4.0 |     | 2.0                     | 2.2 |     |                         |     |     |                         |     |     |
| 58.0                                                                                 | 3.5                     | 4.3 |     | 2.8                     | 3.3 |     |                         | 1.6 |     |                         |     |     |                         |     |     |
| 62.0                                                                                 | 2.5                     | 3.1 |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 66.0                                                                                 | 1.7                     |     |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |

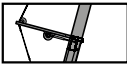


Operation · Einsatz · Utilisation  
Uso · Эксплуатация

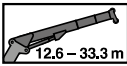
Working range · Arbeitsbereich · Rayon de travail  
Zona de trabajo · Area di lavoro · Рабочая зона



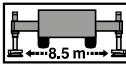
40.4 – 60 m



12.6 – 33.3 m



8.5 m



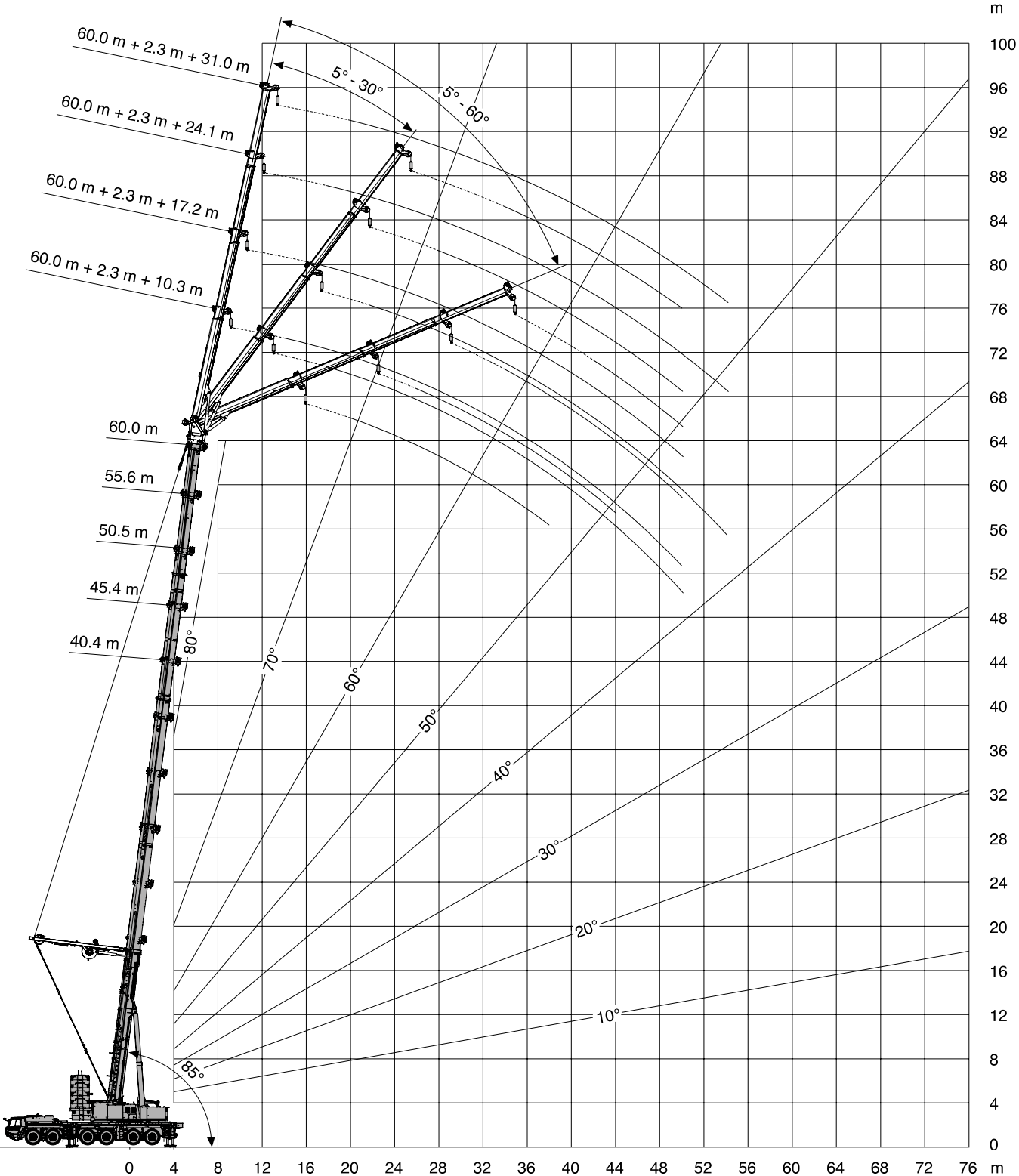
360°



116 t



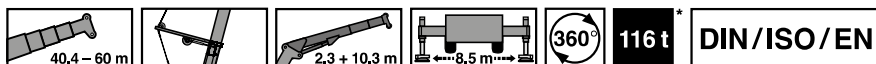
DIN/ISO/EN

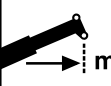


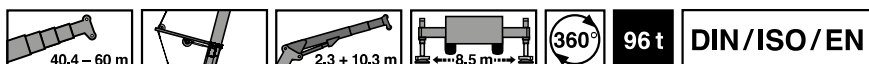
\* No increase in lifting capacity with a 136 t counterweight. · Keine Traglaststeigerung mit 136 t Gegengewicht. · Aucune augmentation de la charge de levage avec contrepoids de 136 t. · Ningún aumento

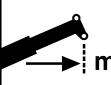
Operation · Einsatz · Utilisation  
Uso · Эксплуатация

Lifting capacities · Traglasten · Charges de levage  
Cargas · Portate · Грузоподъемность

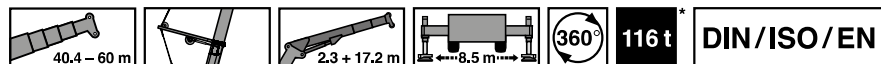


|  m | 40.4 m + 2.3 m + 10.3 m |      |      | 45.4 m + 2.3 m + 10.3 m |      |      | 50.5 m + 2.3 m + 10.3 m |      |      | 55.6 m + 2.3 m + 10.3 m |      |     | 60.0 m + 2.3 m + 10.3 m |      |      |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|------|------|
|                                                                                    | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60° | 5°                      | 30°  | 60°  |
| 9.0                                                                                | 38.6                    |      |      |                         |      |      |                         |      |      |                         |      |     |                         |      |      |
| 10.0                                                                               | 38.6                    |      |      | 31.2                    |      |      |                         |      |      |                         |      |     |                         |      |      |
| 11.0                                                                               | 38.6                    |      |      | 31.2                    |      |      | 25.2                    |      |      |                         |      |     |                         |      |      |
| 12.0                                                                               | 38.6                    |      |      | 31.2                    |      |      | 25.1                    |      |      | 15.3                    |      |     |                         |      |      |
| 14.0                                                                               | 38.6                    | 30.3 |      | 31.2                    | 23.8 |      | 23.0                    |      |      | 15.3                    |      |     | 12.6                    |      |      |
| 16.0                                                                               | 36.3                    | 29.0 | 22.8 | 31.2                    | 22.6 | 15.7 | 21.2                    | 16.7 |      | 15.3                    | 14.5 |     | 12.6                    |      |      |
| 18.0                                                                               | 31.7                    | 27.8 | 22.4 | 29.7                    | 21.6 | 15.4 | 19.7                    | 15.7 | 11.0 | 15.3                    | 13.5 | 8.8 | 12.6                    | 12.6 |      |
| 20.0                                                                               | 27.9                    | 26.6 | 22.1 | 26.1                    | 20.7 | 15.1 | 18.4                    | 14.8 | 10.7 | 15.1                    | 12.6 | 8.5 | 12.6                    | 12.0 | 10.7 |
| 22.0                                                                               | 24.6                    | 23.7 | 21.9 | 22.9                    | 19.9 | 14.9 | 17.2                    | 14.0 | 10.5 | 14.0                    | 11.8 | 8.2 | 12.6                    | 11.2 | 10.0 |
| 24.0                                                                               | 21.8                    | 21.2 | 21.2 | 20.3                    | 19.1 | 14.7 | 16.1                    | 13.3 | 10.3 | 13.0                    | 11.1 | 8.0 | 12.3                    | 10.3 | 9.2  |
| 26.0                                                                               | 19.4                    | 19.0 | 19.0 | 17.9                    | 17.5 | 14.5 | 15.1                    | 12.7 | 10.1 | 12.1                    | 10.5 | 7.8 | 11.4                    | 9.4  | 8.5  |
| 28.0                                                                               | 17.2                    | 17.0 | 17.1 | 15.9                    | 15.6 | 14.4 | 14.3                    | 12.1 | 9.9  | 11.3                    | 9.7  | 7.6 | 10.3                    | 8.5  | 7.8  |
| 30.0                                                                               | 15.3                    | 15.2 |      | 14.0                    | 13.9 | 14.0 | 13.2                    | 11.6 | 9.7  | 10.3                    | 9.0  | 7.5 | 9.3                     | 7.7  | 7.1  |
| 32.0                                                                               | 13.6                    | 13.6 |      | 12.4                    | 12.4 |      | 11.7                    | 11.1 | 9.6  | 9.4                     | 8.3  | 7.3 | 8.3                     | 7.0  | 6.5  |
| 34.0                                                                               | 12.1                    | 12.2 |      | 10.9                    | 11.0 |      | 10.3                    | 10.3 | 9.5  | 8.7                     | 7.6  | 7.1 | 7.5                     | 6.4  | 6.0  |
| 36.0                                                                               | 10.8                    | 10.8 |      | 9.6                     | 9.7  |      | 9.0                     | 9.2  |      | 7.9                     | 7.0  | 6.6 | 6.7                     | 5.7  | 5.5  |
| 38.0                                                                               | 9.5                     | 9.6  |      | 8.5                     | 8.6  |      | 7.9                     | 8.0  |      | 7.3                     | 6.5  |     | 6.0                     | 5.2  | 5.0  |
| 40.0                                                                               | 8.4                     | 8.5  |      | 7.4                     | 7.5  |      | 6.8                     | 7.0  |      | 6.4                     | 6.0  |     | 5.3                     | 4.6  |      |
| 42.0                                                                               | 7.4                     | 7.5  |      | 6.4                     | 6.5  |      | 5.9                     | 6.1  |      | 5.4                     | 5.5  |     | 4.6                     | 4.2  |      |
| 44.0                                                                               | 6.4                     | 6.5  |      | 5.5                     | 5.6  |      | 5.0                     | 5.2  |      | 4.6                     | 4.8  |     | 3.8                     | 3.7  |      |
| 46.0                                                                               | 5.4                     |      |      | 4.6                     | 4.8  |      | 4.2                     | 4.4  |      | 3.8                     | 4.0  |     | 3.0                     | 3.3  |      |
| 48.0                                                                               | 2.7                     |      |      | 3.9                     | 3.9  |      | 3.4                     | 3.6  |      | 3.0                     | 3.2  |     | 2.3                     | 2.6  |      |
| 50.0                                                                               |                         |      |      | 3.1                     |      |      | 2.7                     | 2.9  |      | 2.4                     | 2.5  |     | 1.6                     | 1.9  |      |
| 54.0                                                                               |                         |      |      | 1.8                     |      |      | 1.5                     |      |      |                         |      |     |                         |      |      |

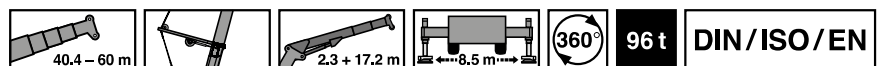


|  m | 40.4 m + 2.3 m + 10.3 m |      |      | 45.4 m + 2.3 m + 10.3 m |      |      | 50.5 m + 2.3 m + 10.3 m |      |      | 55.6 m + 2.3 m + 10.3 m |      |     | 60.0 m + 2.3 m + 10.3 m |      |      |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|------|------|
|                                                                                      | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60° | 5°                      | 30°  | 60°  |
| 9.0                                                                                  | 38.6                    |      |      |                         |      |      |                         |      |      |                         |      |     |                         |      |      |
| 10.0                                                                                 | 38.6                    |      |      | 31.2                    |      |      |                         |      |      |                         |      |     |                         |      |      |
| 11.0                                                                                 | 38.6                    |      |      | 31.2                    |      |      | 25.2                    |      |      |                         |      |     |                         |      |      |
| 12.0                                                                                 | 38.6                    |      |      | 31.2                    |      |      | 25.1                    |      |      | 15.3                    |      |     |                         |      |      |
| 14.0                                                                                 | 38.6                    | 30.3 |      | 31.2                    | 23.8 | 23.8 | 23.0                    |      |      | 15.3                    |      |     | 12.6                    |      |      |
| 16.0                                                                                 | 36.3                    | 29.0 | 22.8 | 31.2                    | 22.6 | 22.6 | 21.2                    | 16.7 |      | 15.3                    | 14.5 |     | 12.6                    |      |      |
| 18.0                                                                                 | 31.7                    | 27.8 | 22.4 | 29.7                    | 21.6 | 21.6 | 19.7                    | 15.7 | 11.0 | 15.3                    | 13.5 | 8.8 | 12.6                    | 12.6 |      |
| 20.0                                                                                 | 27.9                    | 26.6 | 22.1 | 26.1                    | 20.7 | 20.7 | 18.4                    | 14.8 | 10.7 | 15.1                    | 12.6 | 8.5 | 12.6                    | 12.0 | 10.7 |
| 22.0                                                                                 | 24.6                    | 23.7 | 21.9 | 22.9                    | 19.9 | 19.9 | 17.2                    | 14.0 | 10.5 | 14.0                    | 11.8 | 8.2 | 12.6                    | 11.2 | 10.0 |
| 24.0                                                                                 | 21.8                    | 21.2 | 21.2 | 20.3                    | 19.1 | 19.1 | 16.1                    | 13.3 | 10.3 | 13.0                    | 11.1 | 8.0 | 12.3                    | 10.3 | 9.2  |
| 26.0                                                                                 | 19.4                    | 19.0 | 19.0 | 17.9                    | 17.5 | 17.5 | 15.1                    | 12.7 | 10.1 | 12.1                    | 10.5 | 7.8 | 11.4                    | 9.4  | 8.5  |
| 28.0                                                                                 | 17.2                    | 17.0 | 17.1 | 15.9                    | 15.6 | 15.6 | 14.3                    | 12.1 | 9.9  | 11.3                    | 9.7  | 7.6 | 10.3                    | 8.5  | 7.8  |
| 30.0                                                                                 | 15.3                    | 15.2 |      | 14.0                    | 13.9 | 13.9 | 13.2                    | 11.6 | 9.7  | 10.3                    | 9.0  | 7.5 | 9.3                     | 7.7  | 7.1  |
| 32.0                                                                                 | 13.6                    | 13.6 |      | 12.4                    | 12.4 | 12.4 | 11.7                    | 11.1 | 9.6  | 9.4                     | 8.3  | 7.3 | 8.3                     | 7.0  | 6.5  |
| 34.0                                                                                 | 12.1                    | 12.2 |      | 10.9                    | 11.0 | 11.0 | 10.3                    | 10.3 | 9.5  | 8.7                     | 7.6  | 7.1 | 7.5                     | 6.4  | 6.0  |
| 36.0                                                                                 | 10.5                    | 10.8 |      | 9.6                     | 9.7  | 9.7  | 9.0                     | 9.2  |      | 7.9                     | 7.0  | 6.6 | 6.7                     | 5.7  | 5.5  |
| 38.0                                                                                 | 8.8                     | 9.6  |      | 8.5                     | 8.6  | 8.6  | 7.9                     | 8.0  |      | 7.3                     | 6.5  |     | 6.0                     | 5.2  | 5.0  |
| 40.0                                                                                 | 7.3                     | 7.9  |      | 7.4                     | 7.5  | 7.5  | 6.8                     | 7.0  |      | 6.4                     | 6.0  |     | 5.3                     | 4.6  |      |
| 42.0                                                                                 | 5.9                     | 6.4  |      | 6.1                     | 6.5  | 6.5  | 5.9                     | 6.1  |      | 5.4                     | 5.5  |     | 4.1                     | 4.2  |      |
| 44.0                                                                                 | 4.6                     | 5.0  |      | 4.8                     | 5.4  | 5.4  | 5.0                     | 5.2  |      | 4.6                     | 4.8  |     |                         | 3.7  |      |
| 46.0                                                                                 | 3.5                     |      |      | 3.7                     | 4.2  | 4.2  | 4.1                     | 4.4  |      | 3.8                     | 4.0  |     |                         |      |      |
| 48.0                                                                                 | 2.5                     |      |      | 2.7                     | 3.0  | 3.0  | 3.1                     | 3.6  |      | 3.0                     | 3.2  |     |                         |      |      |
| 50.0                                                                                 |                         |      |      | 1.8                     |      |      | 2.2                     | 2.5  |      | 2.4                     | 2.5  |     |                         |      |      |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация

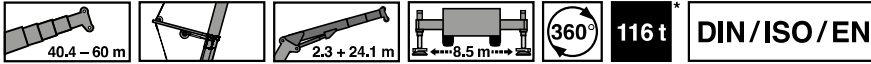


|  m | 40.4 m + 2.3 m + 17.2 m |      |      | 45.4 m + 2.3 m + 17.2 m |      |      | 50.5 m + 2.3 m + 17.2 m |      |     | 55.6 m + 2.3 m + 17.2 m |     |     | 60.0 m + 2.3 m + 17.2 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 10.0                                                                               | 16.7                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 11.0                                                                               | 16.7                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 12.0                                                                               | 16.7                    |      |      | 16.7                    |      |      |                         |      |     |                         |     |     |                         |     |     |
| 14.0                                                                               | 16.7                    |      |      | 16.7                    |      |      | 16.7                    |      |     | 12.5                    |     |     |                         |     |     |
| 16.0                                                                               | 16.7                    |      |      | 16.7                    |      |      | 16.7                    |      |     | 12.5                    |     |     | 8.4                     |     |     |
| 18.0                                                                               | 16.7                    | 16.7 |      | 16.7                    |      |      | 16.6                    |      |     | 12.5                    |     |     | 8.4                     |     |     |
| 20.0                                                                               | 16.7                    | 16.7 |      | 16.7                    | 15.9 |      | 15.5                    | 11.7 |     | 12.5                    |     |     | 8.4                     |     |     |
| 22.0                                                                               | 16.7                    | 16.7 | 13.1 | 16.7                    | 15.2 |      | 14.5                    | 11.1 |     | 12.1                    | 9.7 |     | 8.4                     | 8.4 |     |
| 24.0                                                                               | 16.7                    | 16.3 | 12.9 | 16.7                    | 14.6 | 10.3 | 13.5                    | 10.6 | 8.0 | 11.2                    | 9.1 |     | 8.4                     | 8.4 |     |
| 26.0                                                                               | 16.7                    | 15.7 | 12.7 | 16.7                    | 14.0 | 10.1 | 12.7                    | 10.0 | 7.8 | 10.5                    | 8.6 | 7.6 | 8.4                     | 7.7 | 6.6 |
| 28.0                                                                               | 16.6                    | 15.2 | 12.5 | 15.4                    | 13.5 | 9.9  | 12.0                    | 9.6  | 7.6 | 9.8                     | 8.1 | 7.1 | 8.4                     | 7.1 | 6.1 |
| 30.0                                                                               | 15.0                    | 14.7 | 12.4 | 13.7                    | 13.0 | 9.8  | 11.3                    | 9.1  | 7.5 | 9.0                     | 7.5 | 6.6 | 8.2                     | 6.4 | 5.7 |
| 32.0                                                                               | 13.5                    | 13.5 | 12.3 | 12.3                    | 12.4 | 9.6  | 10.7                    | 8.7  | 7.3 | 8.2                     | 6.9 | 6.1 | 7.3                     | 5.9 | 5.2 |
| 34.0                                                                               | 12.1                    | 12.2 | 12.2 | 11.0                    | 11.2 | 9.5  | 10.1                    | 8.3  | 7.2 | 7.5                     | 6.4 | 5.7 | 6.6                     | 5.4 | 4.8 |
| 36.0                                                                               | 10.9                    | 11.1 | 11.3 | 9.8                     | 10.0 | 9.4  | 9.2                     | 8.0  | 7.1 | 6.9                     | 5.9 | 5.3 | 5.9                     | 4.9 | 4.4 |
| 38.0                                                                               | 9.8                     | 10.0 |      | 8.7                     | 9.0  | 9.3  | 8.2                     | 7.7  | 6.9 | 6.3                     | 5.4 | 4.9 | 5.3                     | 4.4 | 4.0 |
| 40.0                                                                               | 8.8                     | 9.0  |      | 7.8                     | 8.1  |      | 7.2                     | 7.3  | 6.6 | 5.7                     | 5.0 | 4.6 | 4.7                     | 4.0 | 3.7 |
| 42.0                                                                               | 7.8                     | 8.1  |      | 6.9                     | 7.2  |      | 6.3                     | 6.7  |     | 5.2                     | 4.6 | 4.2 | 4.2                     | 3.6 | 3.3 |
| 44.0                                                                               | 7.0                     | 7.2  |      | 6.0                     | 6.4  |      | 5.5                     | 5.9  |     | 4.8                     | 4.2 |     | 3.8                     | 3.2 | 3.0 |
| 46.0                                                                               | 6.2                     | 6.4  |      | 5.3                     | 5.6  |      | 4.8                     | 5.1  |     | 4.3                     | 3.8 |     | 3.3                     | 2.9 |     |
| 48.0                                                                               | 5.4                     | 5.7  |      | 4.6                     | 4.9  |      | 4.1                     | 4.5  |     | 3.7                     | 3.5 |     | 2.9                     | 2.5 |     |
| 50.0                                                                               | 4.8                     | 4.9  |      | 3.9                     | 4.2  |      | 3.5                     | 3.8  |     | 3.0                     | 3.2 |     | 2.4                     | 2.2 |     |
| 54.0                                                                               | 3.5                     |      |      | 2.7                     | 2.9  |      | 2.3                     | 2.6  |     | 1.9                     | 2.3 |     |                         | 1.6 |     |
| 58.0                                                                               |                         |      |      | 1.7                     |      |      |                         | 1.5  |     |                         |     |     |                         |     |     |

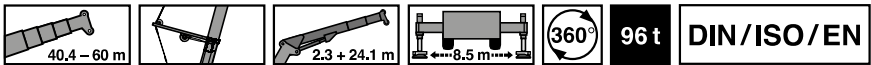


|  m | 40.4 m + 2.3 m + 17.2 m |      |      | 45.4 m + 2.3 m + 17.2 m |      |      | 50.5 m + 2.3 m + 17.2 m |      |     | 55.6 m + 2.3 m + 17.2 m |     |     | 60.0 m + 2.3 m + 17.2 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|------|-------------------------|------|------|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60°  | 5°                      | 30°  | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 10.0                                                                                 | 16.7                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 11.0                                                                                 | 16.7                    |      |      |                         |      |      |                         |      |     |                         |     |     |                         |     |     |
| 12.0                                                                                 | 16.7                    |      |      | 16.7                    |      |      |                         |      |     |                         |     |     |                         |     |     |
| 14.0                                                                                 | 16.7                    |      |      | 16.7                    |      |      | 16.7                    |      |     | 12.5                    |     |     |                         |     |     |
| 16.0                                                                                 | 16.7                    |      |      | 16.7                    |      |      | 16.7                    |      |     | 12.5                    |     |     | 8.4                     |     |     |
| 18.0                                                                                 | 16.7                    | 16.7 |      | 16.7                    |      |      | 16.6                    |      |     | 12.5                    |     |     | 8.4                     |     |     |
| 20.0                                                                                 | 16.7                    | 16.7 |      | 16.7                    | 15.9 |      | 15.5                    | 11.7 |     | 12.5                    |     |     | 8.4                     |     |     |
| 22.0                                                                                 | 16.7                    | 16.7 | 13.1 | 16.7                    | 15.2 |      | 14.5                    | 11.1 |     | 12.1                    | 9.7 |     | 8.4                     | 8.4 |     |
| 24.0                                                                                 | 16.7                    | 16.3 | 12.9 | 16.7                    | 14.6 | 10.3 | 13.5                    | 10.6 | 8.0 | 11.2                    | 9.1 |     | 8.4                     | 8.4 |     |
| 26.0                                                                                 | 16.7                    | 15.7 | 12.7 | 16.7                    | 14.0 | 10.1 | 12.7                    | 10.0 | 7.8 | 10.5                    | 8.6 | 7.6 | 8.4                     | 7.7 | 6.6 |
| 28.0                                                                                 | 16.6                    | 15.2 | 12.5 | 15.4                    | 13.5 | 9.9  | 12.0                    | 9.6  | 7.6 | 9.8                     | 8.1 | 7.1 | 8.4                     | 7.1 | 6.1 |
| 30.0                                                                                 | 15.0                    | 14.7 | 12.4 | 13.7                    | 13.0 | 9.8  | 11.3                    | 9.1  | 7.5 | 9.0                     | 7.5 | 6.6 | 8.2                     | 6.4 | 5.7 |
| 32.0                                                                                 | 13.5                    | 13.5 | 12.3 | 12.3                    | 12.4 | 9.6  | 10.7                    | 8.7  | 7.3 | 8.2                     | 6.9 | 6.1 | 7.3                     | 5.9 | 5.2 |
| 34.0                                                                                 | 12.1                    | 12.2 | 12.2 | 11.0                    | 11.2 | 9.5  | 10.1                    | 8.3  | 7.2 | 7.5                     | 6.4 | 5.7 | 6.6                     | 5.4 | 4.8 |
| 36.0                                                                                 | 10.9                    | 11.1 | 11.3 | 9.8                     | 10.0 | 9.4  | 9.2                     | 8.0  | 7.1 | 6.9                     | 5.9 | 5.3 | 5.9                     | 4.9 | 4.4 |
| 38.0                                                                                 | 9.8                     | 10.0 |      | 8.7                     | 9.0  | 9.3  | 8.2                     | 7.7  | 6.9 | 6.3                     | 5.4 | 4.9 | 5.3                     | 4.4 | 4.0 |
| 40.0                                                                                 | 8.8                     | 9.0  |      | 7.8                     | 8.1  |      | 7.2                     | 7.3  | 6.6 | 5.7                     | 5.0 | 4.6 | 4.7                     | 4.0 | 3.7 |
| 42.0                                                                                 | 7.8                     | 8.1  |      | 6.9                     | 7.2  |      | 6.3                     | 6.7  |     | 5.2                     | 4.6 | 4.2 | 4.2                     | 3.6 | 3.3 |
| 44.0                                                                                 | 7.0                     | 7.2  |      | 6.0                     | 6.4  |      | 5.5                     | 5.9  |     | 4.8                     | 4.2 |     | 3.8                     | 3.2 | 3.0 |
| 46.0                                                                                 | 5.8                     | 6.4  |      | 5.3                     | 5.6  |      | 4.8                     | 5.1  |     | 4.3                     | 3.8 |     | 3.3                     | 2.9 |     |
| 48.0                                                                                 | 4.8                     | 5.6  |      | 4.6                     | 4.9  |      | 4.1                     | 4.5  |     | 3.7                     | 3.5 |     |                         | 2.5 |     |
| 50.0                                                                                 | 3.8                     | 4.4  |      | 3.9                     | 4.2  |      | 3.5                     | 3.8  |     | 3.0                     | 3.2 |     |                         | 2.2 |     |
| 54.0                                                                                 | 2.1                     |      |      | 2.2                     | 2.7  |      | 2.3                     | 2.6  |     | 1.9                     | 2.3 |     |                         |     |     |
| 58.0                                                                                 |                         |      |      |                         |      |      |                         | 1.5  |     |                         |     |     |                         |     |     |



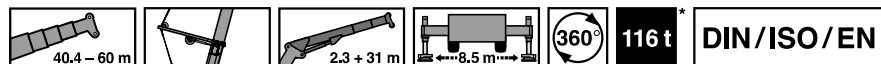


|  m | 40.4 m + 2.3 m + 24.1 m |      |     | 45.4 m + 2.3 m + 24.1 m |      |     | 50.5 m + 2.3 m + 24.1 m |     |     | 55.6 m + 2.3 m + 24.1 m |     |     | 60.0 m + 2.3 m + 24.1 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 5°                      | 30°  | 60° | 5°                      | 30°  | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 14.0                                                                               | 16.3                    |      |     | 14.3                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                               | 16.0                    |      |     | 14.3                    |      |     | 12.3                    |     |     |                         |     |     |                         |     |     |
| 18.0                                                                               | 15.6                    |      |     | 14.3                    |      |     | 12.3                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 20.0                                                                               | 15.2                    |      |     | 14.3                    |      |     | 12.3                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 22.0                                                                               | 14.7                    | 11.6 |     | 14.1                    |      |     | 12.3                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 24.0                                                                               | 14.2                    | 11.3 |     | 13.9                    | 11.1 |     | 11.7                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 26.0                                                                               | 13.7                    | 11.0 |     | 13.6                    | 10.8 |     | 10.9                    | 8.4 |     | 9.6                     | 7.7 |     | 7.4                     |     |     |
| 28.0                                                                               | 13.2                    | 10.6 |     | 13.2                    | 10.5 |     | 10.3                    | 8.0 |     | 9.0                     | 7.2 |     | 7.4                     | 5.9 |     |
| 30.0                                                                               | 12.8                    | 10.3 | 8.5 | 12.8                    | 10.2 | 7.5 | 9.7                     | 7.6 |     | 8.4                     | 6.8 |     | 7.1                     | 5.4 |     |
| 32.0                                                                               | 12.4                    | 10.0 | 8.4 | 11.9                    | 10.0 | 7.3 | 9.2                     | 7.2 | 6.2 | 7.7                     | 6.3 | 5.5 | 6.4                     | 5.0 |     |
| 34.0                                                                               | 11.8                    | 9.8  | 8.3 | 10.7                    | 9.7  | 7.2 | 8.7                     | 6.9 | 5.9 | 7.1                     | 5.8 | 5.1 | 5.8                     | 4.5 | 4.0 |
| 36.0                                                                               | 10.7                    | 9.5  | 8.2 | 9.7                     | 9.5  | 7.1 | 8.2                     | 6.6 | 5.7 | 6.5                     | 5.4 | 4.7 | 5.2                     | 4.1 | 3.6 |
| 38.0                                                                               | 9.7                     | 9.3  | 8.1 | 8.8                     | 9.1  | 7.0 | 7.8                     | 6.3 | 5.4 | 5.9                     | 5.0 | 4.4 | 4.7                     | 3.8 | 3.3 |
| 40.0                                                                               | 8.8                     | 9.1  | 8.1 | 7.9                     | 8.3  | 6.9 | 7.3                     | 5.9 | 5.1 | 5.4                     | 4.6 | 4.1 | 4.2                     | 3.4 | 3.1 |
| 42.0                                                                               | 8.0                     | 8.3  | 8.0 | 7.1                     | 7.5  | 6.8 | 6.5                     | 5.6 | 4.9 | 5.0                     | 4.2 | 3.8 | 3.7                     | 3.1 | 2.8 |
| 44.0                                                                               | 7.2                     | 7.6  |     | 6.3                     | 6.8  | 6.8 | 5.8                     | 5.3 | 4.7 | 4.5                     | 3.9 | 3.5 | 3.3                     | 2.8 | 2.5 |
| 46.0                                                                               | 6.5                     | 6.9  |     | 5.6                     | 6.1  |     | 5.1                     | 5.0 | 4.5 | 4.1                     | 3.6 | 3.2 | 2.9                     | 2.5 | 2.3 |
| 48.0                                                                               | 5.8                     | 6.2  |     | 5.0                     | 5.4  |     | 4.5                     | 4.7 | 4.3 | 3.7                     | 3.3 | 3.0 | 2.6                     | 2.2 | 2.0 |
| 50.0                                                                               | 5.2                     | 5.6  |     | 4.4                     | 4.8  |     | 3.9                     | 4.4 |     | 3.4                     | 3.0 | 2.7 | 2.2                     | 1.9 | 1.8 |
| 54.0                                                                               | 4.1                     | 4.4  |     | 3.3                     | 3.7  |     | 2.8                     | 3.3 |     | 2.5                     | 2.4 |     | 1.6                     |     |     |
| 58.0                                                                               | 3.1                     | 3.3  |     | 2.3                     | 2.7  |     |                         | 1.6 |     | 1.6                     | 2.0 |     |                         |     |     |
| 62.0                                                                               | 2.2                     |      |     | 1.5                     | 1.7  |     |                         |     |     |                         |     |     |                         |     |     |

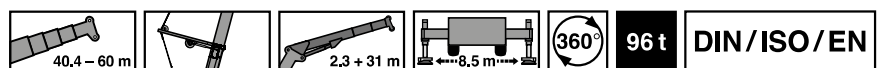


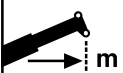
|  m | 40.4 m + 2.3 m + 24.1 m |      |     | 45.4 m + 2.3 m + 24.1 m |      |     | 50.5 m + 2.3 m + 24.1 m |     |     | 55.6 m + 2.3 m + 24.1 m |     |     | 60.0 m + 2.3 m + 24.1 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|------|-----|-------------------------|------|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 5°                      | 30°  | 60° | 5°                      | 30°  | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 14.0                                                                                 | 16.3                    |      |     | 14.3                    |      |     |                         |     |     |                         |     |     |                         |     |     |
| 16.0                                                                                 | 16.0                    |      |     | 14.3                    |      |     | 12.3                    |     |     |                         |     |     |                         |     |     |
| 18.0                                                                                 | 15.6                    |      |     | 14.3                    |      |     | 12.3                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 20.0                                                                                 | 15.2                    |      |     | 14.3                    |      |     | 12.3                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 22.0                                                                                 | 14.7                    | 11.6 |     | 14.1                    |      |     | 12.3                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 24.0                                                                                 | 14.2                    | 11.3 |     | 13.9                    | 11.1 |     | 11.7                    |     |     | 9.7                     |     |     | 7.4                     |     |     |
| 26.0                                                                                 | 13.7                    | 11.0 |     | 13.6                    | 10.8 |     | 10.9                    | 8.4 |     | 9.6                     | 7.7 |     | 7.4                     |     |     |
| 28.0                                                                                 | 13.2                    | 10.6 |     | 13.2                    | 10.5 |     | 10.3                    | 8.0 |     | 9.0                     | 7.2 |     | 7.4                     | 5.9 |     |
| 30.0                                                                                 | 12.8                    | 10.3 | 8.5 | 12.8                    | 10.2 | 7.5 | 9.7                     | 7.6 |     | 8.4                     | 6.8 |     | 7.1                     | 5.4 |     |
| 32.0                                                                                 | 12.4                    | 10.0 | 8.4 | 11.9                    | 10.0 | 7.3 | 9.2                     | 7.2 | 6.2 | 7.7                     | 6.3 | 5.5 | 6.4                     | 5.0 |     |
| 34.0                                                                                 | 11.8                    | 9.8  | 8.3 | 10.7                    | 9.7  | 7.2 | 8.7                     | 6.9 | 5.9 | 7.1                     | 5.8 | 5.1 | 5.8                     | 4.5 | 4.0 |
| 36.0                                                                                 | 10.7                    | 9.5  | 8.2 | 9.7                     | 9.5  | 7.1 | 8.2                     | 6.6 | 5.7 | 6.5                     | 5.4 | 4.7 | 5.2                     | 4.1 | 3.6 |
| 38.0                                                                                 | 9.7                     | 9.3  | 8.1 | 8.8                     | 9.1  | 7.0 | 7.8                     | 6.3 | 5.4 | 5.9                     | 5.0 | 4.4 | 4.7                     | 3.8 | 3.3 |
| 40.0                                                                                 | 8.8                     | 9.1  | 8.1 | 7.9                     | 8.3  | 6.9 | 7.3                     | 5.9 | 5.1 | 5.4                     | 4.6 | 4.1 | 4.2                     | 3.4 | 3.1 |
| 42.0                                                                                 | 8.0                     | 8.3  | 8.0 | 7.1                     | 7.5  | 6.8 | 6.5                     | 5.6 | 4.9 | 5.0                     | 4.2 | 3.8 | 3.7                     | 3.1 | 2.8 |
| 44.0                                                                                 | 7.2                     | 7.6  |     | 6.3                     | 6.8  | 6.8 | 5.8                     | 5.3 | 4.7 | 4.5                     | 3.9 | 3.5 | 3.3                     | 2.8 | 2.5 |
| 46.0                                                                                 | 6.5                     | 6.9  |     | 5.6                     | 6.1  |     | 5.1                     | 5.0 | 4.5 | 4.1                     | 3.6 | 3.2 | 2.9                     | 2.5 | 2.3 |
| 48.0                                                                                 | 5.8                     | 6.2  |     | 5.0                     | 5.4  |     | 4.5                     | 4.7 | 4.3 | 3.7                     | 3.3 | 3.0 | 2.6                     | 2.2 | 2.0 |
| 50.0                                                                                 | 5.2                     | 5.6  |     | 4.4                     | 4.8  |     | 3.9                     | 4.4 |     | 3.4                     | 3.0 | 2.7 | 2.2                     | 1.9 | 1.8 |
| 54.0                                                                                 | 3.8                     | 4.4  |     | 3.3                     | 3.7  |     | 2.8                     | 3.3 |     | 2.5                     | 2.4 |     |                         |     |     |
| 58.0                                                                                 | 2.3                     | 2.9  |     | 2.3                     | 2.7  |     |                         | 1.6 |     | 1.6                     | 2.0 |     |                         |     |     |
| 62.0                                                                                 |                         |      |     |                         | 1.6  |     |                         |     |     |                         |     |     |                         |     |     |

Operation · Einsatz · Utilisation  
Uso · Эксплуатация



|  m | 40.4 m + 2.3 m + 31.0 m |     |     | 45.4 m + 2.3 m + 31.0 m |     |     | 50.5 m + 2.3 m + 31.0 m |     |     | 55.6 m + 2.3 m + 31.0 m |     |     | 60.0 m + 2.3 m + 31.0 m |     |     |
|------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                    | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 16.0                                                                               | 10.9                    |     |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                               | 10.9                    |     |     | 10.2                    |     |     | 8.9                     |     |     |                         |     |     |                         |     |     |
| 20.0                                                                               | 10.7                    |     |     | 10.0                    |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 22.0                                                                               | 10.5                    |     |     | 9.8                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 24.0                                                                               | 10.3                    |     |     | 9.7                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 26.0                                                                               | 10.0                    |     |     | 9.5                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 28.0                                                                               | 9.8                     | 7.2 |     | 9.3                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 30.0                                                                               | 9.4                     | 7.0 |     | 9.2                     | 6.9 |     | 8.8                     | 6.8 |     | 6.6                     |     |     | 5.9                     |     |     |
| 32.0                                                                               | 9.1                     | 6.7 |     | 9.0                     | 6.7 |     | 8.4                     | 6.5 |     | 6.6                     | 5.7 |     | 5.7                     |     |     |
| 34.0                                                                               | 8.7                     | 6.5 |     | 8.7                     | 6.5 |     | 7.9                     | 6.2 |     | 6.5                     | 5.3 |     | 5.2                     | 4.0 |     |
| 36.0                                                                               | 8.4                     | 6.3 | 5.3 | 8.4                     | 6.3 |     | 7.5                     | 5.9 |     | 6.0                     | 4.9 |     | 4.7                     | 3.7 |     |
| 38.0                                                                               | 8.0                     | 6.1 | 5.2 | 8.1                     | 6.1 | 5.2 | 7.1                     | 5.6 | 4.7 | 5.5                     | 4.5 |     | 4.2                     | 3.3 |     |
| 40.0                                                                               | 7.7                     | 5.9 | 5.1 | 7.8                     | 6.0 | 5.1 | 6.7                     | 5.3 | 4.4 | 5.0                     | 4.2 | 3.7 | 3.8                     | 3.0 |     |
| 42.0                                                                               | 7.5                     | 5.8 | 5.1 | 7.2                     | 5.8 | 5.1 | 6.4                     | 5.0 | 4.2 | 4.6                     | 3.8 | 3.4 | 3.4                     | 2.7 | 2.4 |
| 44.0                                                                               | 7.2                     | 5.6 | 5.0 | 6.5                     | 5.6 | 5.0 | 6.0                     | 4.7 | 4.0 | 4.2                     | 3.5 | 3.1 | 3.0                     | 2.5 | 2.2 |
| 46.0                                                                               | 6.7                     | 5.5 | 5.0 | 5.9                     | 5.5 | 5.0 | 5.4                     | 4.5 | 3.8 | 3.8                     | 3.2 | 2.9 | 2.7                     | 2.2 | 2.0 |
| 48.0                                                                               | 6.1                     | 5.3 | 5.0 | 5.3                     | 5.4 | 4.9 | 4.8                     | 4.2 | 3.6 | 3.5                     | 3.0 | 2.7 | 2.3                     | 2.0 | 1.8 |
| 50.0                                                                               | 5.5                     | 5.2 | 4.9 | 4.8                     | 5.2 | 4.9 | 4.3                     | 4.0 | 3.5 | 3.1                     | 2.7 | 2.4 | 2.0                     | 1.7 | 1.6 |
| 54.0                                                                               | 4.5                     | 5.0 |     | 3.7                     | 4.3 |     | 3.3                     | 3.5 | 3.1 | 2.5                     | 2.2 | 2.0 | 1.5                     |     |     |
| 58.0                                                                               | 3.6                     | 4.0 |     | 1.9                     | 2.4 |     | 2.4                     | 2.9 |     | 2.0                     | 1.8 |     |                         |     |     |
| 62.0                                                                               | 2.7                     | 3.1 |     |                         |     |     | 1.6                     | 2.1 |     |                         |     |     |                         |     |     |
| 66.0                                                                               | 2.0                     | 2.2 |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |



|  m | 40.4 m + 2.3 m + 31.0 m |     |     | 45.4 m + 2.3 m + 31.0 m |     |     | 50.5 m + 2.3 m + 31.0 m |     |     | 55.6 m + 2.3 m + 31.0 m |     |     | 60.0 m + 2.3 m + 31.0 m |     |     |
|--------------------------------------------------------------------------------------|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|-------------------------|-----|-----|
|                                                                                      | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° | 5°                      | 30° | 60° |
| 16.0                                                                                 | 10.9                    |     |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |
| 18.0                                                                                 | 10.9                    |     |     | 10.2                    |     |     | 8.9                     |     |     |                         |     |     |                         |     |     |
| 20.0                                                                                 | 10.7                    |     |     | 10.0                    |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 22.0                                                                                 | 10.5                    |     |     | 9.8                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 24.0                                                                                 | 10.3                    |     |     | 9.7                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 26.0                                                                                 | 10.0                    |     |     | 9.5                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 28.0                                                                                 | 9.8                     | 7.2 |     | 9.3                     |     |     | 8.9                     |     |     | 6.6                     |     |     | 5.9                     |     |     |
| 30.0                                                                                 | 9.4                     | 7.0 |     | 9.2                     | 6.9 |     | 8.8                     | 6.8 |     | 6.6                     |     |     | 5.9                     |     |     |
| 32.0                                                                                 | 9.1                     | 6.7 |     | 9.0                     | 6.7 |     | 8.4                     | 6.5 |     | 6.6                     | 5.7 |     | 5.7                     |     |     |
| 34.0                                                                                 | 8.7                     | 6.5 |     | 8.7                     | 6.5 |     | 7.9                     | 6.2 |     | 6.5                     | 5.3 |     | 5.2                     | 4.0 |     |
| 36.0                                                                                 | 8.4                     | 6.3 | 5.3 | 8.4                     | 6.3 |     | 7.5                     | 5.9 |     | 6.0                     | 4.9 |     | 4.7                     | 3.7 |     |
| 38.0                                                                                 | 8.0                     | 6.1 | 5.2 | 8.1                     | 6.1 | 5.2 | 7.1                     | 5.6 | 4.7 | 5.5                     | 4.5 |     | 4.2                     | 3.3 |     |
| 40.0                                                                                 | 7.7                     | 5.9 | 5.1 | 7.8                     | 6.0 | 5.1 | 6.7                     | 5.3 | 4.4 | 5.0                     | 4.2 | 3.7 | 3.8                     | 3.0 |     |
| 42.0                                                                                 | 7.5                     | 5.8 | 5.1 | 7.2                     | 5.8 | 5.1 | 6.4                     | 5.0 | 4.2 | 4.6                     | 3.8 | 3.4 | 3.4                     | 2.7 | 2.4 |
| 44.0                                                                                 | 7.2                     | 5.6 | 5.0 | 6.5                     | 5.6 | 5.0 | 6.0                     | 4.7 | 4.0 | 4.2                     | 3.5 | 3.1 | 3.0                     | 2.5 | 2.2 |
| 46.0                                                                                 | 6.7                     | 5.5 | 5.0 | 5.9                     | 5.5 | 5.0 | 5.4                     | 4.5 | 3.8 | 3.8                     | 3.2 | 2.9 | 2.7                     | 2.2 | 2.0 |
| 48.0                                                                                 | 6.1                     | 5.3 | 5.0 | 5.3                     | 5.4 | 4.9 | 4.8                     | 4.2 | 3.6 | 3.5                     | 3.0 | 2.7 | 2.3                     | 2.0 | 1.8 |
| 50.0                                                                                 | 5.5                     | 5.2 | 4.9 | 4.8                     | 5.2 | 4.9 | 4.3                     | 4.0 | 3.5 | 3.1                     | 2.7 | 2.4 | 2.0                     | 1.7 | 1.6 |
| 54.0                                                                                 | 4.5                     | 5.0 |     | 3.7                     | 4.3 |     | 3.3                     | 3.5 | 3.1 | 2.5                     | 2.2 | 2.0 |                         |     |     |
| 58.0                                                                                 | 3.6                     | 4.0 |     | 1.9                     | 2.4 |     | 2.4                     | 2.9 |     | 2.0                     | 1.8 |     |                         |     |     |
| 62.0                                                                                 | 2.6                     | 3.1 |     |                         |     |     | 1.6                     | 2.1 |     |                         |     |     |                         |     |     |
| 66.0                                                                                 |                         | 2.0 |     |                         |     |     |                         |     |     |                         |     |     |                         |     |     |

# EQUIPMENT

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ОБОРУДОВАНИЕ



## Equipment

### Carrier

**Frame:** Torsion-resistant, welded construction made from high-strength, fine-grained steel. Central lubrication system.

**Outriggers:** 4-point double telescopic hydraulic outriggers incl. asymmetric outrigger base and automatic length detection. Controls on both side of carrier and in superstructure cab. Outrigger base 8.5 m (8.0 m / 6.8 m / 5.5 m / 2.7 m) x 8.9 m.

**Engine:** Mercedes-Benz 6-cylinder model OM473LA (EU Stage IV / EPA Tier 4f), water-cooled diesel engine. Hydrostatically driven, electronically controlled fan, engine displacement 15.6 l, rated at 460 kW (625 HP) at 1700 min<sup>-1</sup>. Torque 2900 Nm at 1300 min<sup>-1</sup>. Engine rating acc. to ECE R120. Fuel tank: 660 l. AdBlue tank: 40 l.

**Transmission:** Main transmission: mechanical ZF-TC-Tronic transmission, type 12 TC 3041, with integrated interarder, electro-pneumatically actuated dry clutch and fully automatic transmission control system. 12 forward gears and 2 reverse gears. If necessary, semi-automatic mode (Tip-Tronic) is possible with manual gear selection.

**Drive:** 12 x 8

#### Axles:

- 1<sup>st</sup> axle: steered, driven; with differential lock, transverse.
- 2<sup>nd</sup> axle: steered, not driven.
- 3<sup>rd</sup> axle: steered, driven; with differential lock, transverse and longitudinal.
- 4<sup>th</sup> axle: steered, with connectable drive, with differential lock, transverse.
- 5<sup>th</sup> axle: steered, driven; with differential lock, transverse.
- 6<sup>th</sup> axle: steered, not driven.

**Suspension:** Hydro-pneumatic suspension with leveling adjustment; suspension cylinders electro-hydraulically lockable.

**Brake system:** Air-operated dual-circuit disc brake system with air drier. Parking brake: spring loaded type acting on 3<sup>rd</sup>, 4<sup>th</sup>, 5<sup>th</sup> and 6<sup>th</sup> axles. Interarder and engine brake as continuous service brake.

**Tyres:** (12) 445/95 R 25 (16.00 R 25).

**Steering system:** ZF Servocom, dual-circuit hydraulic steering with emergency steering pump. Mechanical steering of 1st and 2nd axles. In "On-road" mode, automatic electronic steering of the axles 3 - 6 up to a speed of 25 km/h. As of a speed of 25 km/h, the axles 4 and 5 are locked in straight-ahead position and, as of a speed of 50 km/h, axles 3 and 6 additionally.

**Carrier cab:** Two man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, central locking system, air-cushioned seats, driver's seat offering various adjustment options, with memory function and heater, engine dependent water heater, air conditioning, Bluetooth hands-free equipment, multifunction display, rear view camera, radio/CD player with USB port, control and operating elements for driving operation, Cruise Control and hill braking feature.

**Electrical system:** 24 volt DC system, 2 batteries, wiring to CAN bus component with integral self-test CSS system, outrigger area lighting. Electrical system conforms with ECE regulations.

**Optional equipment:** (at extra charge)

Towing attachment, autonomous supplementary heating with engine-preheater, ABS, 525/80 R 25 (20.5 R 25) tyres, spare wheel, special paint and lettering. Further optional equipment available upon request.

### Superstructure

**Frame:** Torsion-resistant welded structure with three-race roller bearing slewing ring with external gearing, rotating through 360°. Central lubrication system.

**Engine:** Mercedes-Benz 6 cylinder model OM936LA (EU Stage IV / EPA Tier 4f), water-cooled diesel engine. Engine speed can be varied progressively via a pedal. Engine displacement 7.7 l. Rated at 205 kW (279 HP) at 1900 min<sup>-1</sup>. Torque 1150 Nm at 1200-1600 min<sup>-1</sup>. Engine rating acc. to ECE R120. Fuel tank: 230 l. AdBlue tank: 19 l.

**Hydraulic system:** Three-circuit diesel-hydraulic system, 1 power-controlled axial-piston twin pump (hydraulically adjustable) with accumulative power control for telescoping, boom elevation and main winch, 1 axial-piston pump for the swing mechanism and counterweight cylinder, 1 geared pump for control oil supply, 1 oil cooler and 1 supplementary oil cooler.

**Controls:** Electrically pre-controlled, 2 joy-stick levers.

**Telescopic boom:** Five-section telescopic boom made of high-tensile fine-grained steel, consisting of 1 base section and 4 telescoping sections, 1 telescopic cylinder, extendable hydraulically under partial load. 15.0 m to 60.0 m long. Boom head with 7 sheaves, optionally available with another 2 sheaves.

**Boom elevation:** One differential cylinder with attached brake and holding valve.

**Main winch:** Axial-piston variable-displacement motor, hoisting gear drum with integrated planetary gears and hydraulically controlled spring-loaded multiple disc brake and integrated free rotation (no sagging of the load when hoisting). Drum rotation indicator, hoist cable with "Super Stop" easy reeving system. Camera system for monitoring the rope.

**Slewing system:** Axial-piston constant motor, three-stage planetary reduction with foot-actuated or automatic service and parking brake. Open hydraulic circuit with swing mechanism lock-out. Swing speed steplessly variable from 0 to 1.1 min<sup>-1</sup>.

**Counterweight:** Total 136 t, divisible. Remote-controlled.

**Superstructure cab:** Spacious crane cab of composite steel / plastic design with tempered tinted glass windows, tiltable cockpit with mechanically cushioned adjustable driver's seat with heater, engine-fed warm water heater unit and autonomous supplementary heater (with engine pre-heating), air conditioning, radio / CD player, controls and instrumentation for crane operation.

**Electrical system:** 24 V DC, 2 batteries, 1 working floodlight on base boom, 2 integrated in crane cab.

**Safety devices:** 'Lift Adjuster', electronic load moment limiter (LMB) with pilot lamp in several colors, anemometer, slewing area and working range limitation with 'Slow-Stop' feature, hoist limit switch, lower limit switch, safety valves protect against pipe and hose failures.

**Optional equipment:** (at extra charge)

Fixed jib 6 m to 24 m. Tiltable jib 2.0 m + 3.5 m and 2.0 m + 3.5 m to 2.0 m + 47.5 m, mechanically tiltable 0°/20°/40°, hydraulically tiltable 0° to 40°. Luffing jibs 2.5 m + 20.3 m to 2.5 m + 76 m and 2.5 m + 46 m to 2.5 m + 64 m (light), main boom offset positions 83°/75°/68°. Hydraulically telescopic and tiltable jib HTLJ 2.3 m + 10.3 m to 2.3 m + 31 m, hydraulically tiltable from 5° to 60°. Telescopic boom suspension system "Power System". 12.5 t hook tackle, selection of hook blocks of the type 40 to 250, 2<sup>nd</sup> winch. Special paint and lettering. Further optional equipment available upon request.

## Unterwagen

**Rahmen:** Verwindungs- und biegesteife Schweißkonstruktion aus hochfestem Feinkornstahl. Zentralschmieranlage.

**Abstützung:** Hydraulische 4-Punkt-Doppelteleskopabstützung inkl. asymmetrischer Abstützbasis und automatischer Längen-erkennung, Bedienungsmöglichkeiten an beiden Seiten des Fahrgestelles und in der Oberwagenkabine.  
Abstützbasis 8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Motor:** Mercedes-Benz 6-Zylinder-Dieselmotor OM473LA (EU Stage IV / EPA Tier 4f), wassergekühlt, hydrostatisch angetriebener Lüfter mit elektronischer Regelung, Hubraum 15,6 l, Leistung 460 kW (625 PS) bei 1700 min<sup>-1</sup>. Drehmoment 2900 Nm bei 1300 min<sup>-1</sup>. Motorleistung nach ECE R120. Kraftstoffbehälter: 660 l. AdBlue-Behälter: 40 l.

**Getriebe:** Hauptgetriebe ZF-TC-Tronic 12 TC 3041, mechanisches Schaltgetriebe mit integriertem Intarder, elektronisch-pneumatisch betätigter Trockenkupplung und vollautomatischer Schaltung mit 12 Vorwärts- und 2 Rückwärtsgängen. Bei Bedarf teilautomatischer Betrieb (Tip-Tronic) mit manueller Gangwahl möglich.

**Antrieb:** 12 x 8

### Achsen:

1. Achse: gelenkt, angetrieben, Differentialsperre quer.
2. Achse: gelenkt, nicht angetrieben.
3. Achse: gelenkt, angetrieben, Differentialsperre längs und quer.
4. Achse: gelenkt, mit zuschaltbarem Antrieb, Differentialsperre quer.
5. Achse: gelenkt, angetrieben, Differentialsperre quer.
6. Achse: gelenkt, nicht angetrieben.

**Achsaufhängung:** Hydropneumatische Federung mit Niveauregulierung, Federungszyylinder elektro-hydraulisch blockierbar.

**Bremsen:** Druckluft-Zweikreis-Scheibenbremsanlage mit Lufttrockner. Feststellbremse als Federspeicherbremse an der 3., 4., 5. und 6. Achse wirkend. Intarder und Motorbremse als Dauerbremse.

**Räder:** 12-fach 445/95 R 25 (16.00 R 25).

**Lenkung:** ZF-Servocom-Zweikreishydraulenlenkung mit Notlenk-pumpe. Mechanische Lenkung der 1. und 2. Achse. Im Betriebsmodus "Straße" werden die Achsen 3-6 bis zu einer Geschwindigkeit von 25 km/h elektronisch mitgelenkt. Ab einer Geschwindigkeit von 25 km/h werden die Achsen 4 und 5 in Geradeausposition verriegelt und ab einer Geschwindigkeit von 50 km/h zusätzlich die Achsen 3 und 6.

**Unterwagenkabine:** Zwei-Mann-Frontfahrerhaus in Stahl-Kunststoff-Verbund-Konstruktion, Sicherheitsverglasung, Zentralverriegelung, luftgefederte Sitze, Fahrersitz vielseitig einstellbar mit Memoryfunktion und beheizbar, motorabhängige Wasserheizung, Klimaanlage, Bluetooth Freisprecheinrichtung, Multifunktionsdisplay, Rückfahrkamera, Radio/CD-Player mit USB Anschluss, Kontroll- und Bedienungselemente für den Fahrbetrieb, Tempomat- / Bremsomat-Funktion.

**Elektrische Anlage:** 24 Volt-Gleichstrom, 2 Batterien, Verdrahtung mit CAN-Bus-Komponente mit integriertem CSS-System zur Eigendiagnose, Abstützfeldbeleuchtung. Die elektrische Anlage entspricht der ECE-Richtlinie.

### Zusatz-ausrüstung:

(gegen Mehrpreis)  
Anhängerkupplung, motorunabhängige Zusatzheizung mit Motorvorwärmung, ABS, 525/80 R 25 (20.5 R 25) Bereifung, Reserverad, Sonderlackierung und Beschriftung.  
Weitere Zusatzausrüstung auf Anfrage.

## Oberwagen

**Rahmen:** Verwindungssteife Schweißkonstruktion mit einer außenverzahnten, dreireihigen Rollendrehverbindung, um 360° unbegrenzt drehbar. Zentralschmieranlage.

**Motor:** Mercedes-Benz 6-Zylinder-Dieselmotor OM936LA (EU Stage IV / EPA Tier 4f), wassergekühlt. Drehzahl ist über Fußpedal stufenlos regelbar. Hubraum 7,7 l. Leistung 205 kW (279 PS) bei 1900 min<sup>-1</sup>. Drehmoment 1150 Nm bei 1200-1600 min<sup>-1</sup>, Motorleistung nach ECE R120. Kraftstoffbehälter: 230 l. AdBlue-Behälter: 19 l.

**Hydraulik System:** Diesel-hydraulisch mit 3-Kreishydraulik, 1 leistungsgeregelte Axialkolbendoppelpumpe (hydraulisch verstellbar) mit Summenschaltung für Teleskopieren, Wippen und Hubwerk, 1 Axialkolbenpumpe für Drehwerk und Gegengewichtszylinder, 1 Zahnradpumpe für Steuerölversorgung, 1 Ölkühler und 1 Zusatzölkühler.

**Steuerung:** Zwei 4-fach Kreuzsteuerhebel mit elektrischer Vorsteuerung.

**Teleskopausleger:** Fünfteiliger Teleskopausleger aus hochfestem Feinkornstahl, bestehend aus einem Grundauser und 4 Teleskopteilen, 1 Teleskopzylinder, hydraulisch unter Teillast teleskopierbar. 15,0 m - 60,0 m lang. Rollenkopf mit 7 Seilrollen, optional erweiterbar um 2 Seilrollen.

**Wippwerk:** Ein Differentialzylinder mit angebaute Senkbremsventil.

**Hubwerk:** Axialkolben-Verstell-Motor, Hubwerkstrommel mit eingebautem Planetengetriebe und federbelasteter Hydro-Lamellenbremse mit integriertem Freilauf beim Heben. Seilwindendrehmelder, Hubseil mit 'Super-Stop' Einrichtung. Kamerasystem zur Seilüberwachung.

**Drehwerk:** Axialkolben-Konstant-Motor, dreistufiges Planetengetriebe mit fußbetätigter oder automatischer Betriebs- und Feststellbremse. Offener Hydraulikkreislauf mit Drehwerk-Freisaltung. Drehgeschwindigkeit stufenlos von 0-1,1 min<sup>-1</sup>.

**Gegengewicht:** Gesamtgewicht 136 t, teilbar. Die Bedienung erfolgt mittels einer Fernbedieneinheit.

**Oberwagenkabine:** Großräumige Krankabine in Stahl-Kunststoffausführung mit Sicherheitsverglasung und getönten Scheiben, kippbarem Arbeitsplatz mit verstellbarem, mechanisch gedämpftem Fahrersitz mit Heizung, motorabhängige Warmwasserheizung und motorunabhängige Zusatzheizung (mit Motorvorwärmung), Klimaanlage, Radio-CD-Player, Kontroll- und Bedienungselemente.

**Elektrische Anlage:** 24 Volt-Gleichstrom, 2 Batterien, 1 Arbeitsscheinwerfer am Grundauser, 2 integriert in die Krankabine.

**Sicherheitseinrichtungen:** „Lift-Adjuster“, elektronische Lastmomentbegrenzung (LMB) mit Ampelkennleuchte, Windmesser, Dreh- und Arbeitsbereichsbegrenzung mit „Slow-Stop“ Funktion, Hubendschalter, Windenendschalter, Sicherheitsventile gegen Rohr- und Schlauchbrüche.

### Zusatz-ausrüstung:

(gegen Mehrpreis)  
Starre Auslegerverlängerung 6 m bis 24 m. Abwinkelbare Auslegerverlängerungen 2,0 m + 3,5 m und 2,0 m + 11,5 m bis 2,0 m + 47,5 m, mechanisch abwinkelbar 0°/20°/40°, hydraulisch abwinkelbar 0° bis 40°. Wippbare Auslegerverlängerungen 2,5 m + 20,3 m bis 2,5 m + 76 m und 2,5 m + 46 m bis 2,5 m + 64 m (leicht), Hauptauslegerwinkelstellungen 83°/75°/68°. Hydraulisch teleskopier- und abwinkelbare Auslegerverlängerung HTLJ 2,3 m + 10,3 m bis 2,3 m + 31 m, hydraulisch abwinkelbar 5° bis 60°. Teleskopausleger-Abspannung „Power System“. 12,5 t Hakengeschirr, Unterflaschen von Typ 40 bis 250, 2. Hubwinde. Sonderlackierung und Beschriftung. Weitere Zusatzausrüstung auf Anfrage.

# Équipement

## Châssis

**Châssis:** Construction mécano-soudée, en acier à grain fin très rigide, résistant aux flexions et aux torsions. Système de graissage centralisé.

**Calage:** Dispositif de calage horizontal et vertical double en 4 points, entièrement déployable hydrauliquement, y compris distance entre appuis asymétrique et détection de longueur automatique, commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure. Calage 8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Moteur:** Mercedes-Benz diesel 6 cylindres, modèle OM473LA (EU Stage IV / EPA Tier 4f), refroidi par eau. Soufflante à entraînement hydrostatique avec régulation électronique, cylindrée 15,6 l, puissance 460 kW (625 CV) à 1700 min<sup>-1</sup>. Couple 2900 Nm à 1300 min<sup>-1</sup>. Puissance moteur selon ECE R120. Capacité du réservoir: 660 l. Capacité du réservoir AdBlue: 40 l.

**Boîte de vitesse:** Boîte principale ZF-TC-Tronic, modèle 12 TC 3041, boîte de vitesses mécanique avec intarder intégré, embrayage à sec électro-pneumatique et commande des vitesses complètement automatique avec 12 vitesses AV et 2 vitesses AR. Si nécessaire, mode partiellement automatique (Tip-Tronic) avec sélection de vitesses manuelle possible.

**Entraînement:** 12 x 8

### Essieux:

1<sup>er</sup> essieu: directeur, entraîné, blocage de différentiel transversal.

2<sup>ème</sup> essieu: directeur, non entraîné.

3<sup>ème</sup> essieu: directeur, entraîné, blocage de différentiel transversal et longitudinal.

4<sup>ème</sup> essieu: directeur, avec entraînement connectable, blocage de différentiel transversal.

5<sup>ème</sup> essieu: directeur, entraîné, blocage de différentiel transversal.

6<sup>ème</sup> essieu: directeur, non entraîné.

**Suspension:** Suspension hydro-pneumatique avec réglage de niveau, vérins de suspension blocables électro-hydrauliquement.

**Freins:** Système de frein à disque à air comprimé, à deux circuits, avec sécheur d'air. Le frein de stationnement agit sur les essieux 3, 4, 5 et 6 comme frein à ressorts accumulateurs. Intarder et frein moteur comme frein continu.

**Pneus:** 12 x 445/95 R 25 (16.00 R 25).

**Direction:** Marque ZF Servocom hydraulique à double circuit, avec pompe de secours pour direction Direction mécanique des 1<sup>er</sup> et 2<sup>ème</sup> essieux: En mode "route", les essieux 3 à -6 sont dirigés automatiquement et électroniquement jusqu'à une vitesse de 25 km/h. A partir d'une vitesse de 25 km/h, les essieux 4 et 5 sont verrouillés en position de "ligne droite" et, à partir d'une vitesse de 50 km/h, de plus les essieux 3 et 6.

**Cabine:** Cabine bi-place, construction en matière combinée (acier/matière plastique), vitres en verre de sécurité, système de verrouillage central, sièges à suspension pneumatique, siège du conducteur à plusieurs réglages, avec fonction de mémoire et chauffant, chauffage d'eau alimenté par le moteur, climatiseur, dispositif mains libres Bluetooth, affichage multi-fonctions, caméra de recul, radio / CD-player avec connecteur USB, éléments de contrôle et de commande pour la conduite, régulateur de vitesse, système automatique de freinage.

**Système électrique:** 24 V courant continu, 2 batteries, câblage au composant du bus CAN avec système autodiagnostic CSS intégré, éclairage de la distance entre appuis. Conforme à la norme ECE.

**Équipement supplémentaire:** (avec supplément de prix) Attache-remorque, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, système ABS, pneus 525/80 R 25 (20.5 R 25), roue de secours, peinture spéciale et inscription. Autres équipements supplémentaires sur demande.

## Superstructure

**Plate forme:** Construction mécano-soudée résistante à la torsion. Couronne d'orientation à billes à une rangée, à denture extérieure, permettant la rotation illimitée sur 360°. Système de graissage centralisé.

**Moteur:** Mercedes-Benz diesel 6 cylindres, modèle OM936LA (EU Stage IV / EPA Tier 4f), refroidi par eau. La vitesse peut être réglée progressivement par une pédale. Cylindrée 7,7 l. Puissance 205 kW (279 CV) à 1900 min<sup>-1</sup>. Couple 1150 Nm à 1200-1600 min<sup>-1</sup>. Puissance moteur selon ECE R120. Capacité du réservoir: 230 l. Capacité du réservoir AdBlue: 19 l.

**Système hydraulique:** Système diesel-hydraulique à trois circuits, 1 double pompe à piston axial réglée en fonction de la puissance (à réglage hydraulique) avec circuit de la somme pour les mécanismes de télescopage, de relevage et de levage, 1 pompe à piston axial pour le groupe de rotation et vérins de contrepoids, 1 pompe à engrenages pour l'alimentation en huile de commande; 1 radiateur d'huile et 1 radiateur d'huile supplémentaire.

**Commande:** 2 manipulateurs à commande en croix (4 sens), assistés électriquement.

**Flèche télescopique:** Flèche télescopique à cinq éléments, en acier à texture fine et très résistant, se composant d'une flèche de base et de 4 éléments télescopiques, 1 vérin de télescopage, télescopable hydrauliquement sous charge partielle. Longueur 15,0 m à 60,0 m. Tête à poulie avec 7 poulies, pouvant être élargi en option de 2 poulies.

**Mécanisme de relevage:** 1 vérin différentiel muni d'un limiteur de vitesse en descente.

**Mécanisme de levage:** Moteur à cylindrée variable à piston axial, tambour de levage avec boîte planétaire incorporé et frein d'arrêt à disques multiples hydraulique à ressort, libéré lors du levage. Indicateur de rotation du treuil de câble, câble de levage avec dispositif "Super-Stop". Système de camera pour la surveillance du câble.

**Groupe de rotation:** Moteur à cylindrée constante à pistons axiaux, avec engrenage planétaire de trois étages avec frein de service et d'arrêt actionné à pied ou automatique. Circuit hydraulique ouvert avec déconnexion du groupe de rotation. Vitesse de rotation réglable progressivement de 0-1,1 min<sup>-1</sup>.

**Contrepoids:** Total 136 t, divisible. Commande à distance.

**Cabine du grutier:** Cabine de grue spacieuse, construction en matière composite acier / synthétique, vitrage de sécurité en verre teinté, place de travail inclinable avec siège du conducteur réglable, amorti mécaniquement, chauffant; chauffage à eau chaude alimenté par le moteur et chauffage auxiliaire autonome avec préchauffage du moteur, climatiseur, radio / CD-player, éléments de commande et de contrôle.

**Système électrique:** 24 V courant continu, 2 batteries, 1 phare de travail sur la flèche de base, 2 intégrés dans la cabine de grue.

**Dispositifs de sécurité:** 'Lift Adjuster', contrôleur de l'état de charge (CEC) électronique avec lampe de signalisation, anémomètre, limitation du rayon de rotation et du rayon de travail avec fonction 'Slow-Stop', interrupteur fin de course de levage, interrupteur fin de course de treuil, soupapes de sécurité contre les ruptures de tuyaux et flexibles.

**Équipement supplémentaire:** (avec supplément de prix) Rallonge de flèche rigide 6 m à 24 m. Rallonges de flèche inclinables 2,0 m + 3,5 m et 2,0 m + 3,5 m à 2,0 m + 47,5 m, inclinable mécaniquement 0°/20°/40°, inclinable hydrauliquement 0° à 40°. Rallonges de flèche relevables 2,5 m + 20,3 m à 2,5 m + 76 m et 2,5 m + 46 m à 2,5 m + 64 m (léger), positions angulaires de la flèche principale 83°/75°/68°. Rallonge de flèche télescopable et inclinable hydrauliquement HTLJ 2,3 m + 10,3 m à 2,3 m + 31 m, inclinable hydrauliquement 5° à 60°. Équipement de haubanage de la flèche télescopique "Power System". Ensemble de crochet porte-charge de 12,5 t, mofles du type 40 a 250, 2<sup>ème</sup> treuil de levage. Peinture spéciale et inscription. Autres équipements supplémentaires sur demande.

## Chasis

**Bastidor:** Construcción de acero de alta resistencia soldado, resistente a la torsión y a la flexión. Sistema de engrase central.

**Estabilización:** Estabilizadores telescópicos hidráulicos dobles de 4 puntos, incl. base de apoyo asimétrica y detección automática de longitud, posibilidad de manejo desde ambos lados del chasis portante y desde la cabina de la grúa.

Extensión de los estabilizadores:  
8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Motor:** Mercedes-Benz de 6 cilindros diesel, modelo OM473LA (EU Stage IV / EPA Tier 4f), refrigerado por agua, ventilador con propulsión hidrostática y regulación electrónica. Cilindrada 15,6 l. Potencia: 460 kW (625 CV) a 1.700 min<sup>-1</sup>. Par: 2.900 Nm a 1.300 min<sup>-1</sup>. Potencia del motor según ECE R120. Depósito de combustible: 660 l. Depósito AdBlue: 40 l.

**Transmisión:** Transmisión principal mecánica del tipo ZF-TC-Tronic 12 TC 3041 con intarder integrado, con embrague en seco con accionamiento electro-neumático y cambio automático con 12 marchas delanteras y 2 marchas traseras. Si fuera necesario, se puede operar la transmisión en forma parcialmente automática (Tip-Tronic), seleccionando las marchas manualmente.

**Tracción:** 12 x 8

### Ejes:

1° eje: de dirección, accionado, con bloqueo diferencial transversal.

2° eje: de dirección, no accionado.

3° eje: de dirección, accionado, con bloqueo diferencial longitudinal y transversal.

4° eje: de dirección, con accionamiento conectable, con bloqueo diferencial transversal.

5° eje: de dirección, accionado, con bloqueo diferencial transversal.

6° eje: de dirección, no accionado.

**Suspensión de los ejes:** Suspensión hidroneumática con regulación de nivel, posibilidad de bloqueo electro-hidráulico de los cilindros de suspensión.

**Frenos:** Sistema de frenos de disco neumático de doble circuito con secador de aire. Freno de estacionamiento del tipo freno de muelle, accionando en los ejes 3, 4, 5 y 6. Intarder y freno de motor como freno continuo.

**Neumáticos:** 12 x 445/95 R 25 (16.00 R 25).

**Dirección:** Dirección hidráulica ZF Servocom de doble circuito con bomba de emergencia. Dirección mecánica al 1° y 2° eje. En modo de funcionamiento "traslado por carretera", los ejes 3 a 6 se dirigen electrónicamente hasta una velocidad de 25 km/h. A partir de una velocidad de 25 km/h, los ejes 4 y 5 se bloquean en posición de línea recta y a partir de una velocidad de 50 km/h se bloquean además los ejes 3 y 6.

**Cabina del chasis:** Cabina de conductor frontal para dos personas construida en material compuesto de chapa de acero y plástico, acristalamiento de seguridad, bloqueo central, asientos neumáticos, asiento del conductor regulable en múltiples posiciones con función memoria y calefactable, calefacción por agua dependiente del motor, climatizador, dispositivo manos libres con Bluetooth, display multifunción, cámara de marcha atrás, radio/reproductor CD con toma USB, elementos de control y mando para el modo de conducción, regulador de velocidad, sistema automático de frenado.

**Sistema eléctrico:** 24 voltios de corriente continua, 2 baterías, cableado con componente de bus CAN con sistema CSS de autodiagnóstico integrado, iluminación de la zona de apoyo. El sistema eléctrico cumple la normativa ECE.

**Equipamiento adicional:** (con suplemento de precio) Enganche para remolque, calefacción adicional independiente del motor con precalefacción del motor, sistema antibloqueo ABS, neumáticos 525/80 R 25 (20.5 R 25), rueda de repuesto, pintura especial y rotulación. Otros equipamientos adicionales sobre pedido.

## Superestructura

**Bastidor:** Construida en aceros soldados, resistente a la torsión, corona de giro con rodamiento de tres filas de rodillos con dientes externos con giro continuo de 360°. Sistema de engrase central.

**Motor:** Mercedes-Benz de 6 cilindros diesel, modelo OM936LA (EU Stage IV / EPA Tier 4f), refrigerado por agua. Las revoluciones aumentan de forma gradual accionando el acelerador. Cilindrada 7,7 l. Potencia: 205 kW (279 CV) a 1.900 min<sup>-1</sup>. Par: 1.150 Nm a 1.200 - 1.600 min<sup>-1</sup>. Potencia del motor según ECE R120. Depósito de combustible: 230 l. Depósito AdBlue: 19 l.

**Sistema hidráulico:** Sistema dieselhidráulico de 3 circuitos, 1 bomba doble de pistones axiales de caudal variable (regulable hidráulicamente) con regulación a caudal total para telescopiado, ajuste hacia arriba y abajo y cabrestante, 1 bomba de pistones axiales para mecanismo de giro y cilindro del contrapeso, 1 bomba de engranajes para abastecimiento de aceite de mando, radiador de aceite y 1 radiador de aceite adicional.

**Controles:** 2 palancas de control de tipo joy-stick para movimientos simultáneos de la grúa (4 direcciones), asistidas eléctricamente.

**Pluma telescópica:** Pluma telescópica de cinco secciones en acero de alta resistencia soldado; se compone de un tramo base y 4 tramos telescópicos, 1 cilindro telescópico; los tramos pueden telescoparse hidráulicamente bajo carga parcial. Longitud de 15,0 m a 60,0 m. Cabeza de pluma con 7 poleas, con ampliación opcional por otras 2 poleas.

**Mecanismo de basculado:** Mediante un cilindro diferencial con válvula de retención integrada.

**Cabrestante principal:** Motor de cilindrada variable de pistones axiales, tambor del cabrestante con reducción planetaria incorporada y freno de discos múltiples cargado por resorte con sistema libre de elevación. Indicador de giros del cabrestante, cable de elevación con sistema "Super-Stop". Sistema de cámaras para monitorear el cable.

**Sistema de giro:** Motor de cilindrada constante de pistones axiales, con reducción planetaria de tres etapas con freno de servicio y estacionamiento accionado por pedal o automáticamente. Circuito hidráulico abierto con desbloqueo del mecanismo giratorio. Velocidad de giro variable continuamente de 0 a 1,1 min<sup>-1</sup>.

**Contrapeso:** Peso total: 136 t, divisible. Se acciona mediante un control remoto.

**Cabina de la grúa:** Cabina de grúa espaciosa en construcción de acero y plástico, con cristales tintados de seguridad, puesto de trabajo inclinable con asiento de conductor regulable, amortiguado mecánicamente y calefactable, calefacción por agua caliente dependiente del motor y calefacción adicional independiente del motor (con precalefacción del motor), climatizador, radio / reproductor de CD, elementos de control y mando.

**Sistema eléctrico:** 24 voltios de corriente continua, 2 baterías, 1 faro de trabajo en la pluma base, 2 faros integrados en la cabina de la grúa.

**Dispositivos de seguridad:** "Lift Adjuster", limitador electrónico del momento de carga (LMC) con luz de señalización tipo semáforo, anemómetro, limitación de la zona de giro y del área de trabajo con función "Slow-Stop", interruptor de fin de carrera de elevación, interruptor de fin de carrera del cabrestante, válvulas de seguridad contra roturas de tubos y latiguillos.

**Equipamiento adicional:** (con suplemento de precio) Alargamiento de pluma de ángulo fijo de 6 m a 24 m. Alargamientos de pluma regulables 2,0 m + 3,5 m y 2,0 m + 3,5 m a 2,0 m + 47,5 m, regulable mecánicamente de 0°/20°/40°, regulable hidráulicamente de 0° a 40°. Alargamientos de pluma ajustables hidráulicamente 2,5 m + 20,3 m a 2,5 m + 76 m y 2,5 m + 46 m a 2,5 m + 64 m (ligero), posiciones angulares de la pluma principal: 83°/75°/68°. Alargamiento de pluma telescópica y regulable hidráulicamente HTLJ 2,3 m + 10,3 m a 2,3 m + 31 m, hidráulicamente regulable de 5° a 60°. Arriostramiento de la pluma telescópica del tipo "Power System". Accesorios de gancho de 12,5 t, pastecas de carga del tipo 40 a 250, 2° cabrestante. Pintura especial y rotulación. Otros equipamientos adicionales sobre pedido.

## Equipaggiamento

### Carro

**Telaio:** Struttura saldata resistente a sollecitazioni a torsione e flessione in acciaio a grano fine ad alta resistenza. Impianto di lubrificazione centrale.

**Stabilizzazione:** Stabilizzazione telescopica doppia su 4 punti, di tipo idraulico, incl. base di appoggio asimmetrica, rilevamento automatico lunghezza, possibilità di comando dai due lati del telaio e dalla cabina della sovrastruttura. Base di appoggio 8,5 m (8,0 m / 6,8 m / 5,5 m / 2,7 m) x 8,9 m.

**Motore:** Motore diesel Mercedes-Benz 6 cilindri OM473LA (EU Stage IV / EPA Tier 4f), raffreddato ad acqua, ventilatore ad azionamento idrostatico con regolazione elettronica, cilindrata 15,6 l, potenza 460 kW (625 PS) a 1700 min<sup>-1</sup>. Coppia 2900 Nm a 1300 min<sup>-1</sup>. Potenza motore conforme a ECE R120. Serbatoio carburante: 660 l. Serbatoio AdBlue: 40 l.

**Cambio:** Trasmissione principale cambio meccanico ZF-TC-Tronic 12 TC 3041 con Intarder integrato, frizione a secco ad azionamento elettro-pneumatico e innesto marce automatico, con 12 marce avanti e 2 retromarce. Opzionale: funzionamento parzialmente automatico (Tiptronic) con selezione marce manuale.

**Trasmissione:** 12 x 8

#### Assi:

- 1° asse: snodato, asse motore, bloccaggio differenziale trasversale.
- 2° asse: snodato, non asse motore.
- 3° asse: snodato, asse motore, bloccaggio differenziale longitudinale e trasversale.
- 4° asse: snodato, con trazione inseribile, bloccaggio differenziale trasversale.
- 5° asse: snodato, asse motore, bloccaggio differenziale trasversale.
- 6° asse: snodato, non asse motore.

**Sospensione assiale:** Sospensione idro-pneumatica con regolazione di livello, cilindro sospensione con bloccaggio elettroidraulico.

**Freni:** Impianto frenante con freni a disco a doppio circuito ad aria compressa con essiccatore di aria. Freno di stazionamento con funzione di freno a molla a rilascio pneumatico sul 3°, 4°, 5° e 6° asse. Intarder e freno motore come freno continuo.

**Ruote:** 12x 445/95 R 25 (16.00 R 25).

**Sterzo:** Sistema idroguida a doppio circuito ZF Servocom con pompa sterzo di emergenza. Sterzata meccanica del 1° e 2° asse. In modalità di funzionamento "su strada" gli assi 3-6 vengono guidati elettronicamente fino a una velocità di 25 km/h. Gli assi 4 e 5 vengono bloccati dritti a partire da una velocità di 25 km/h mentre gli assi 3 e 6 da 50 km/h.

**Cabina del carro:** Cabina conducente frontale per due in struttura composita acciaio-plastica, vetratura di sicurezza, chiusura centralizzata, sedili molleggiati, sedile conducente impostabile in vari modi con funzione memory e riscaldamento, riscaldamento acqua dipendente dal motore, climatizzatore, vivavoce Bluetooth, display multifunzione, telecamera retromarcia, radio/lettore CD con collegamento USB, elementi di controllo e comando per la marcia e funzioni Tempomat e Bremsomat.

**Impianto elettrico:** Corrente continua 24 Volt, 2 batterie, cablaggio con componente sistema CAN Bus con sistema CSS integrato per autodiagnosi, illuminazione zona di stabilizzazione. L'impianto elettrico è conforme alle norme ECE.

**Equipaggiamento aggiuntivo:** (a sovrapprezzo)

Gancio di traino, riscaldamento supplementare indipendente dal motore con preriscaldamento motore, ABS, pneumatici 525/80 R 25 (20.5 R 25), ruota di scorta, verniciatura speciale e diciture. Altro equipaggiamento aggiuntivo su richiesta.

### Sovrastruttura

**Telaio:** Struttura saldata resistente alla torsione con corona di rotazione a rulli a tre file, dentata esternamente, ruotabile di 360° senza limitazioni. Impianto di lubrificazione centrale.

**Motore:** Motore Diesel a 6 cilindri Mercedes-Benz OM936LA, (EU Stage IV / EPA Tier 4f), raffreddato ad acqua. Regolazione continua numero di giri da pedale. Cilindrata 7,7 l. Potenza 205 kW (279 PS) a 1900 min<sup>-1</sup>. Coppia 1150 Nm a 1200-1600 min<sup>-1</sup>, potenza motore conforme a ECE R120. Serbatoio carburante: 230 l. Serbatoio AdBlue: 19 l.

**Impianto idraulico:** Diesel-idraulico con idraulica a 3 circuiti, 1 pompa a pistoni assiali doppia con regolazione di potenza (con regolazione idraulica) con circuito a somma di portate per funzione telescopica, bilancieri e meccanismo di sollevamento e 1 pompa a pistoni assiali per gruppo di rotazione e per cilindro di contrappeso, 1 pompa a ingranaggi per olio comando, 1 radiatore olio e 1 radiatore olio supplementare.

**Comando:** Due leve di comando gru x4 con precomando elettrico.

**Braccio telescopico:** Braccio telescopico in cinque sezioni in acciaio a grano fine ad alta resistenza, composto da un braccio base e 4 sezioni telescopiche, 1 cilindro telescopico, funzione telescopica ad azionamento idraulico sotto carico parziale. Lunghezza 15,0 m - 60,0 m. Testa rullo con 7 pulegge espandibile con altre 2 pulegge.

**Gruppo di brandeggio:** Un cilindro differenziale con valvola di frenata caduta verticale montata.

**Meccanismo di sollevamento:** Servomotore a pistone assiale, tamburo del meccanismo di sollevamento con rotismo epicicloidale incorporato e freno a disco idraulico sollecitato a molla con ruota libera integrata nel sollevamento. Indicatore delle rotazioni dei verricelli, fune di sollevamento con dispositivo 'Super-Stop'. Sistema videocamera per controllo funi.

**Gruppo di rotazione:** Motore costante a pistoni assiali, ingranaggio epicicloidale a tre stadi con freno di servizio e di stazionamento azionabile a pedale o automatico. Circuito idraulico aperto con attivazione gruppo di rotazione. Velocità di rotazione regolabile in continuo da 0 a 1,1 min<sup>-1</sup>.

**Contrappeso:** Peso complessivo 136 t, divisibile. Il funzionamento avviene tramite unità di comando a distanza.

**Cabina della sovrastruttura:** Spaziosa cabina della gru in acciaio-plastica con vetratura di sicurezza e cristalli oscurati, postazione di lavoro ribaltabile con sedile conducente regolabile, con molleggio meccanico regolabile e riscaldamento, riscaldamento ad acqua dipendente dal motore e riscaldamento supplementare indipendente dal motore (con preriscaldamento motore), climatizzatore, radio/lettore CD, elementi di controllo e comando per esercizio gru.

**Impianto elettrico:** Corrente continua 24 Volt, 2 batterie, 1 proiettore di lavoro sul braccio base, 2 integrati nella cabina della gru.

**Dispositivi di sicurezza:** "Lift Adjuster", limitatore del momento di carico (LMC) elettronico con luce di riferimento a semaforo, anemometro, delimitazione dell'area di rotazione e delimitazione dell'area di lavoro con funzione "Slow-Stop", interruttore di fine corsa, fine corsa argani, valvole di sicurezza contro rottura tubi e tubi flessibili.

**Equipaggiamento aggiuntivo:** (a sovrapprezzo) Prolunga del braccio rigida da 6 m a 24 m. Prolunga del braccio con regolazione angolo 2,0 m + 3,5 m e da 2,0 m + 11,5 m a 2,0 m + 47,5 m, con regolazione angolo meccanica di 0°/20°/40°, regolazione angolo idraulica da 0° a 40°. Prolunghe del braccio basculanti 2,5 m + 20,3 m fino a 2,5 m + 76 m e 2,5 m + 46 m fino a 2,5 m + 64 m (leggera), regolazioni angolo braccio principale 83°/75°/68°. Prolunga del braccio con funzione telescopica e regolazione angolo idrauliche HTLJ 2,3 m + 10,3 m fino a 2,3 m + 31 m, regolazione angolo idraulica da 5° a 60°. Ancoraggio braccio telescopico "Power System". Gancio da 12,5 t, bozzelli di tipo da 40 a 250, secondo argano di sollevamento. Verniciatura speciale e diciture. Altro equipaggiamento aggiuntivo su richiesta.



## Ходовая платформа

**Рама:** Жёсткая на скручивание и изгиб сварная конструкция из высокопрочной мелкозернистой стали. Централизованная смазочная система.

**Аутригеры:** Четыре гидравлические опоры в четырех точках, включая поддержку асимметричной базы аутригеров и автоматическое распознавание положения стрелы, возможность управления с обеих сторон ходовой части и из кабины на поворотной платформе.

Опорная база 8,5 м (8,0 м / 6,8 м / 5,5 м / 2,7 м) x 8,9 м.

**Двигатель:** 6-цилиндровый дизельный двигатель Mercedes-Benz OM473LA, (EU Stage IV / EPA Tier 4f), с водяным охлаждением, вентилятор с гидростатическим приводом и электронным регулированием. Рабочий объем двигателя 15,6 л, мощность 460 кВт (625 л.с.) при 1 700 об/мин. Крутящий момент 2 900 Н·м при 1 300 об/мин. Мощность двигателя согласно ECE R120. Топливный бак: 660 л. Бак для присадки AdBlue: 40 л.

**Коробка передач:** Главный редуктор ZF-TC-Tronic 12 TC 3041 со встроенным интардером, электронно-пневматическим управлением сухим дисковым сцеплением и полностью автоматическим переключением 12 передач переднего и 2 передач заднего хода. При необходимости возможен полуавтоматический режим (Tip-Tronic) с переключением передач вручную.

**Привод:** 12 x 8

**Оси:**

1-я ось: управляемая, приводная, с поперечной блокировкой межколёсного дифференциала.

2-я ось: управляемая, неприводная.

3-я ось: управляемая, приводная, с продольной и поперечной блокировкой межколёсного дифференциала.

4-я ось: управляемая, с подключаемым приводом, поперечная блокировка межколёсного дифференциала.

5-я ось: управляемая, приводная, с поперечной блокировкой межколёсного дифференциала.

6-я ось: управляемая, неприводная.

**Подвеска оси:** Гидропневматическая подвеска с регулировкой уровня, функция электрогидравлической блокировки цилиндра подвески.

**Тормоза:** Пневматическая двухмагистральная дисковая тормозная система с электронным индикатором износа и осушителем воздуха. Стояночный тормоз, представляющий собой тормозной механизм с пружинным энергоаккумулятором, воздействует на 3-ю, 4-ю, 5-ю и 6-ю оси. Интардер и моторный тормоз.

**Колеса:** 12-ные 445/95 R 25 (16.00 R 25).

**Рулевое управление:** Двухконтурное гидравлическое рулевое управление ZF-Servocom с резервным насосом рулевого управления. Механическое рулевое управление 1-й и 2-й осями. В рабочем режиме «Дорога» производится электронное подруливание осями 3 – 6 при скорости до 25 км/ч. Начиная со скорости 25 км/ч оси 4 и 5 блокируются в прямом положении, а начиная со скорости 50 км/ч блокируются дополнительно оси 3 и 6.

**Кабина ходовой платформы:** Двухместная передняя кабина водителя композитной конструкции (металлический лист и стекловолокно), безосколочное стекло, центральный замок, сиденья с пневматической подвеской, сиденье водителя регулируемое по многим параметрам, с функцией памяти и подогревом), водяной отопитель, зависящий от работы двигателя, кондиционер, спикерфон с функцией Bluetooth, многофункциональный дисплей, камера заднего вида, радиоприемник / CD-плеер с портом USB, элементы управления и индикации для ходового режима, функция темпомата / автоматического торможения.

**Система электрооборудования:** 24 вольт пост. тока, 2 аккумуляторные батареи проводка к компонентам шины CAN со встроенной системой CSS для самодиагностики, подсветка аутригеров. Электрооборудование отвечает стандарту ECE.

**Дополнительное оборудование:** (за надбавку к цене) Тягово-сцепное устройство, автономный отопитель с функцией подогрева двигателя, ABS, шины 525/80 R 25 (20.5 R 25), запасное колесо, специальное лаковое покрытие и нанесение надписей. Другое дополнительное оборудование – по запросу.

# Оборудование

## Поворотная платформа

**Рама:** Жёсткая на скручивание сварная конструкция с трехрядным роликовым поворотным соединением с внешними зубьями, с неограниченным поворотом на 360°. Централизованная смазочная система.

**Двигатель:** 6-цилиндровый дизельный двигатель Mercedes-Benz OM936LA, (EU Stage IV / EPA Tier 4f), с водяным охлаждением. Бесступенчатая регулировка оборотов посредством педали. Рабочий объем двигателя 7,7 л. Мощность 205 кВт (279 л.с.) при 1 900 об/мин. Крутящий момент 1 150 Н·м при 1 200 – 1 600 об/мин., мощность двигателя согласно ECE R120. Топливный бак 230 л. Бак для присадки AdBlue: 19 л.

**Гидравлическая система:** Дизельно-гидравлическая с 3-контурным гидроагрегатом, 1 управляемый по мощности аксиально-поршневой насос двойного действия (с гидравлической регулировкой) и суммарным подключением механизма телескопирования, изменения вылета и подъемного механизма, а также 1 аксиально-поршневой насос одинарного действия для поворотного механизма и цилиндра противовеса, один шестеренчатый насос контрольного давления, 1 масляный радиатор и 1 дополнительный масляный радиатор.

**Система управления:** Два джойстика с предварительным электрическим регулированием.

**Телескопическая стрела:** Пятисекционная телескопическая стрела из высокопрочной мелкозернистой стали, включает основную секцию стрелы и 4 телескопических секций, 1 телескопический цилиндр, выдвигается гидравлическим способом под частичной нагрузкой. Длина 15,0 м – 60,0 м. Оголовок стрелы с 7-ю канатными шкивами, как вариант, возможно расширение еще на 2 канатных шкива.

**Механизм изменения подъема стрелы:** Дифференциальный цилиндр со смонтированным на нем запирающим клапаном.

**Подъемный механизм:** Аксиально-поршневой двигатель с переменным рабочим объемом, барабан подъемного механизма с встроенным планетарным редуктором и пружинным гидравлическим многодисковым тормозом с встроенным механизмом свободного хода при подъеме. Сигнализатор вращения барабана лебедки, подъемный трос с тормозным приспособлением 'Super-Stop'. Система камер для наблюдения за тросом.

**Поворотный механизм:** Аксиально-поршневой двигатель с постоянным рабочим объемом, трехступенчатый планетарный редуктор с рабочим и стояночным тормозом. Открытый гидравлический контур со схемой отпирания поворотного механизма. Бесступенчатое изменение скорости вращения, 0–1,1 об/мин.

**Противовес:** Общий вес 136 т, составной. Управление производится посредством пульта дистанционного управления.

**Кабина на поворотной платформе:** Просторная кабина крана композитной конструкции (металл и пластик), остекление тонированным безосколочным стеклом, откидывающееся рабочее место с регулируемым по высоте сиденьем водителя с механическим амортизатором и подогревом, водяной отопитель, зависящий от работы двигателя, автономный отопитель с функцией подогрева двигателя, кондиционер, радио / CD-плеер, элементы управления и индикации.

**Система электрооборудования:** 24 вольт пост. тока, 2 аккумуляторные батареи, 1 рабочий прожектор на основной секции стрелы, 2 встроены в кабине крана.

**Устройства безопасности:** Регулятор подъема "Lift Adjuster", электронный ограничитель момента нагрузки (LMB) с подачей опознавательных световых сигналов, анемометр, ограничитель зоны поворота и рабочей зоны с функцией медленной остановки "Slow-Stop", концевой выключатель лебедки, клапаны безопасности на случай повреждения гидравлических трубок и шлангов.

**Дополнительное оборудование:** (за надбавку к цене)  
Неподвижный удлинитель стрелы от 6 м до 24 м. Удлинитель стрелы с возможностью изменения угла 2,0 м + 3,5 м и 2,0 м + 11,5 м до 2,0 м + 47,5 м, механическое изменение угла наклона 0°/20°/40°, гидравлическое изменение угла наклона 0° – 40°. маневровый гусек 2,5 м + 20,3 м до 2,5 м + 76 м и 2,5 м + 46 м до 2,5 м + 64 м (легкий), офсет 83°/75°/68°. Удлинение стрелы с телескопированием и изменением угла HTLJ 2,3 м + 10,3 м до 2,3 м + 31 м, гидравлическое изменение угла наклона от 5° до 60°. Оттяжка телескопической стрелы "Power System". крюковая подвеска 12,5 т, крюковые обоймы от типа 40 до 250, 2-я подъемная лебедка. Специальное лаковое покрытие и нанесение надписей. Другое дополнительное оборудование – по запросу.

# ADDITIONAL INFORMATION

ZUSATZINFORMATIONEN  
INFORMATIONS SUPPLÉMENTAIRES  
INFORMACIÓN ADICIONAL  
ALTRE INFORMAZIONI  
ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ



## Additional information · Zusatzinformationen · Informations supplémentaires

### Remarks relating to the capacity charts · Anmerkungen zu den Traglasttabellen Remarques relatives aux tableaux des charges

1. The lifting capacities in the structural area are based on EN 13000.
2. The lifting capacities in the stability area are based on ISO 4305 / EN 13000.
3. Depending on the boom length, max. wind speeds between 7 m/s and 15 m/s are permissible in the lifting capacity charts.
4. Due to different extending sequences of the telescopes, the boom lengths indicated in the lifting capacity charts may deviate slightly.
5. The lifting capacities are shown in metric tons.
6. The weight of load handling devices such as hook blocks, slings, etc., must be considered as part of the load and must be deducted from the lifting capacities.
7. The lifting capacities for the telescopic boom apply to a crane with no jib being stowed or mounted on the crane.
8. The load radius is the horizontal distance from the centre of the slewing ring to the centre of gravity of a suspended, non-oscillating load.

1. Die Tragfähigkeiten im Festigkeitsbereich basieren auf EN 13000.
2. Die Tragfähigkeiten im Standsicherheitsbereich entsprechen ISO 4305 / EN 13000.
3. In Abhängigkeit der Auslegerlänge sind bei den Traglasttabellen max. Windgeschwindigkeiten zwischen 7 m/s und 15 m/s zulässig.
4. Aufgrund unterschiedlicher Ausfahrfolgen der Teleskope können die in den Traglasttabellen angegebenen Auslegerlängen geringfügig abweichend sein.
5. Die Tragfähigkeiten sind in metrischen Tonnen angegeben.
6. Das Gewicht des Lasthakens bzw. der Unterflasche und weiterer Anschlagmittel ist von der Tragfähigkeit abzuziehen.
7. Die Tragfähigkeiten für den Teleskopausleger gelten nur bei demontierter Auslegerverlängerung.
8. Die Ausladung ist der horizontale Abstand von Mitte Drehkranz bis zum Schwerpunkt freihängender, nicht schwingender Last.

1. Les forces de levage sont conformes aux normes EN 13000.
2. Les forces de levage dans la partie de stabilité au renversement sont conformes aux normes ISO 4305 / EN 13000.
3. Des vitesses de vent max. entre 7 et 15 m/s sont autorisées pour les tableaux des charges en fonction de la longueur de la flèche.
4. Les longueurs de flèche indiquées dans les tableaux des charges peuvent être légèrement divergentes en raison des différentes séries de déploiement des télescopes.
5. Les forces de levage sont données en tonnes métriques.
6. Le poids du crochet-moufle et de tous les accessoires d'élévation font partie de la charge et sont à déduire des charges indiquées.
7. Les forces de levage indiquées pour la flèche télescopique s'entendent rallonge de flèche déposée.
8. La portée est la distance horizontale du milieu de la couronne d'orientation au centre de gravité de la charge suspendue librement sans osciller.

### General remarks · Allgemeine Anmerkungen · Remarques générales

Unless otherwise specified, all the information given in this brochure refers to the standard equipment of the crane and only is intended as general information. For correct crane operation, the original operating manual and lifting capacity charts are essential. No liability is accepted for the accuracy of this information. Errors and omissions excepted. Illustrations are similar only. All dimensions - unless otherwise specified - in mm.

Alle Angaben in dieser Broschüre beziehen sich - wenn nicht anderweitig aufgeführt - auf die Standard-Ausstattung des Krans und dienen nur zur allgemeinen Information. Zum ordnungsgemäßen Betrieb des Krans sind die original Bedienungsanleitung und Traglasttabellen maßgeblich. Alle Angaben erfolgen ohne Gewähr. Änderungen und Irrtümer vorbehalten. Abbildungen ähnlich. Alle Bemaßungen - wenn nicht anders angegeben - in mm.

Sauf indication contraire, toutes les informations dans cette brochure se rapportent à l'équipement standard de la grue et constituent uniquement des informations générales. Pour le fonctionnement correct de la grue, le manuel d'instructions original et les tableaux des charges de levage sont déterminants. Toutes les informations sont fournies sans garantie. Sous réserve de modifications techniques et d'erreurs. Illustrations similaires mais pas identiques à l'engin montré. Toutes les cotes - sauf indication différente - en mm.

## Información adicional · Altre informazioni · Дополнительная информация

### Notas relativas a los graficos de carga · Annotazioni sulle tabelle delle portate Примечания к таблицам грузоподъемности

1. En cuanto a los datos referentes a resistencia, las capacidades de carga están basados sobre las normas EN 13000.
2. En cuanto a los datos referentes a estabilidad anti-vuelco, las capacidades de carga están basados sobre las normas ISO 4305 / EN 13000.
3. En función de la longitud de la pluma, son admisibles velocidades máx. del viento entre 7 m/s y 15 m/s en las tablas de cargas.
4. Debido a las diferentes secuencias de extensión de los telescopios, es posible que las longitudes de la pluma indicadas en las tablas de cargas sean ligeramente distintas.
5. Las capacidades de carga indicadas en las tablas corresponden a toneladas métricas.
6. Hay que deducir los pesos del gancho, eslingas y de otros dispositivos para fijación de cargas de los valores indicados en las tablas.
7. Las capacidades de carga referentes a la pluma telescópica valen solamente si el alargamiento de pluma está desmontado.
8. El alcance de pluma es la distancia horizontal del centro de la corona de giro al centro de gravedad de una carga suspendida que no está oscilando.

1. Le capacità di carico nel range di resistenza sono riferite alla norma EN 13000.
2. Le capacità di carico nel range di stabilità sono conformi alle norme ISO 4305 / EN 13000.
3. Nelle tabelle delle portate sono ammesse velocità del vento comprese tra 7 m/s e 15 m/s in funzione della lunghezza del braccio.
4. Considerata le diverse sequenze di sfilo dei telescopi, le lunghezze del braccio indicate nelle tabelle delle portate possono essere lievemente differenti.
5. Le capacità di carico sono indicate in tonnellate metriche.
6. Il peso del gancio di carico, ovvero del bozzello e delle altre imbracature deve essere detratto dalla capacità di carico.
7. Le capacità di carico per il braccio telescopico sono applicabili soltanto con prolunga del braccio smontata.
8. Per sbraccio si intende la distanza orizzontale dal centro della corona rotante al centro del carico sospeso, ma non oscillante.

1. Значения грузоподъемности в пределах категории прочности основаны на положениях стандарта EN 13000.
2. Значения грузоподъемности в пределах области устойчивости соответствуют стандарту ISO 4305 / EN 13000.
3. В зависимости от длины стрелы таблицы грузоподъемности допускают скорость ветра от 7 до 15 м/с.
4. Длина телескопической стрелы в выдвинутом состоянии может незначительно отличаться от указанной в таблицах грузоподъемности из-за различных последовательностей выдвигания.
5. Грузоподъемность указана в метрических тоннах.
6. Из грузоподъемности необходимо вычесть вес грузового крюка или крюковой обоймы, а также других грузозахватных приспособлений.
7. Значения грузоподъемности для телескопической стрелы действительны только при демонтированном удлинителе стрелы (гуське).
8. Вылет — это расстояние по горизонтали между центром поворотного круга и центром тяжести свободно подвешенного некачающегося груза.

### Notas adicionales · Annotazioni generali · Общие примечания

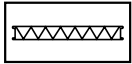
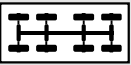
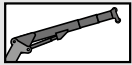
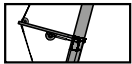
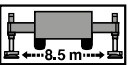
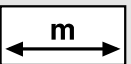
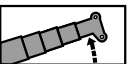
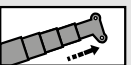
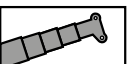
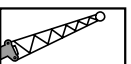
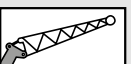
A no ser que se indique lo contrario, todos los datos incluidos en este folleto hacen referencia al equipamiento estándar de la grúa y sólo tienen un carácter informativo general. El manual de instrucciones original y las tablas de capacidades de carga son determinantes para lograr un correcto funcionamiento de la grúa. Todos los datos se facilitan sin garantía. Reservadas las modificaciones y los errores. Ilustraciones similares. Todas las dimensiones - salvo indicación en contrario - en mm.

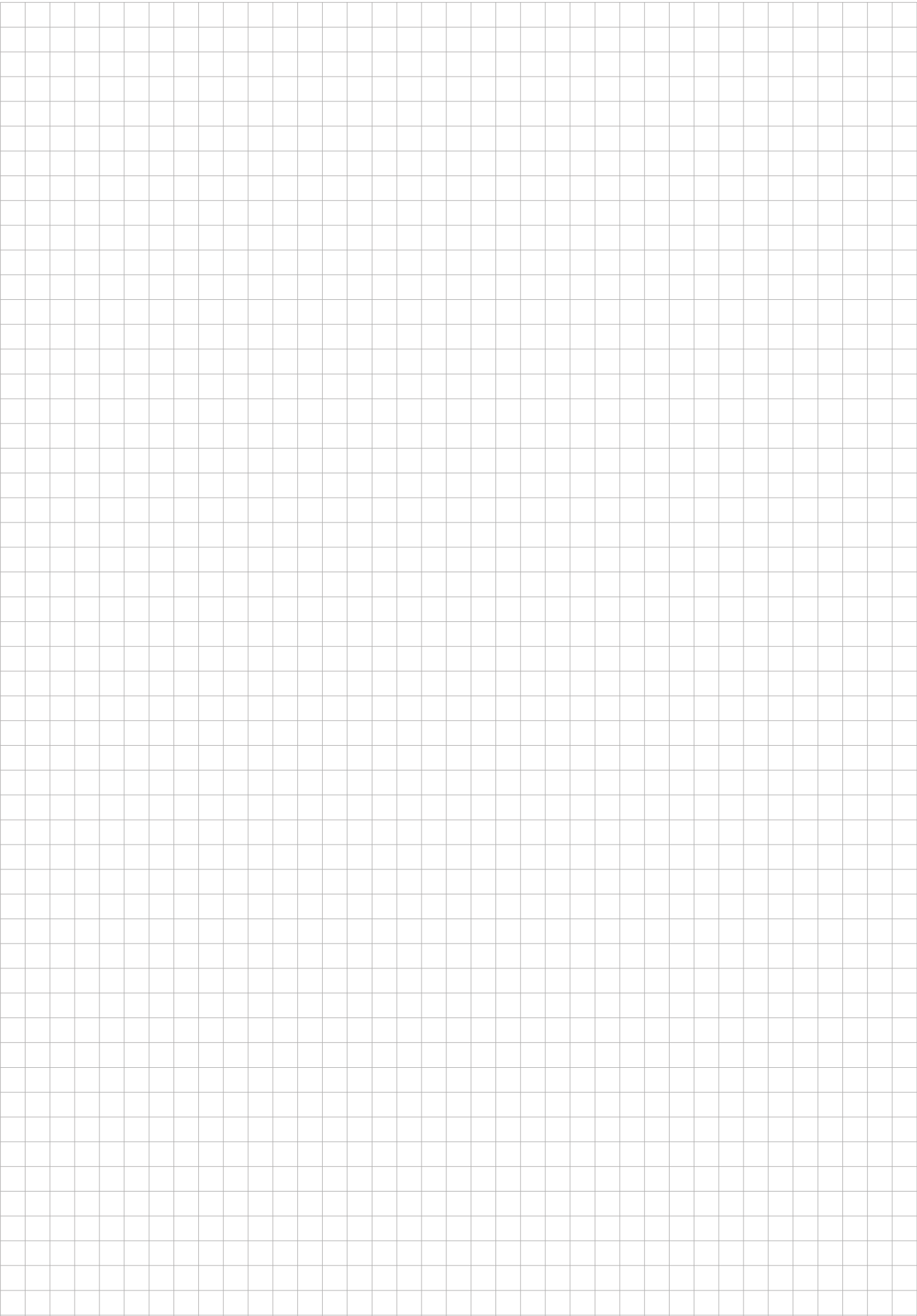
Se non diversamente specificato, tutti i dati di questa brochure si riferiscono alla dotazione standard della gru e sono da considerarsi come informazioni generali. Per un esercizio corretto della gru, sono determinanti il manuale d'uso originale e le tabelle delle portate. Si declina ogni responsabilità per tutti i dati. Con riserva di modifiche ed errori. Figure simili. Tutte le quotature sono in mm (se non diversamente specificato).

Все данные, приведенные в этой брошюре, относятся — если не указано иное — к стандартному оснащению крана и служат лишь для общей информации. Порядок надлежащей эксплуатации крана определяется оригиналом руководства по эксплуатации и таблицами грузоподъемности. Все данные приведены без обязательств. Возможны изменения и ошибки. Иллюстрации являются приблизительными. Все размеры — если не указано другое — в мм.

# Symbols · Symbolerklrung · Glossaire des symboles

## Glosario de simbolos · Spiegazione dei simboli · Условные обозначения

|                                                                                    |                                                                                                                                                                                  |                                                                                     |                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | Gross weight · Gesamtgewicht<br>Poids total · Peso total<br>Peso totale · Полная масса                                                                                           |    | Luffing jib · Wippspitze<br>Flchette  vole variable · Plumn abatible<br>Punta oscillante · маневровый гусек                                                                                                                                                                                                           |
|    | Axle load · Achslast<br>Charge  l'essieu · Carga por eje<br>Carico assiale · Осевая нагрузка                                                                                    |    | Fly jib section · Spitzenteil<br>Elment de flchette · Plumn<br>Parte punta · Головная секция                                                                                                                                                                                                                           |
|    | Drive · Antrieb<br>Entrainement · Traccin<br>Trazione · Привод                                                                                                                  |    | Hydraulic telescopic and luffing jib HTLJ · Hydraulische Teleskop- und Wippspitze HTLJ · Flchette tlescopique relevable hydrauliquement HTLJ · Plumn hidrulicamente telescopable y regulable HTLJ<br>Punta oscillante e telescopica idraulica HTLJ · Телескопическая секция и оголовок с гидравлическим приводом HTLJ |
|    | Tyres · Bereifung<br>Pneus · Neumticos<br>Pneumatici · Шины                                                                                                                     |    | Power-System                                                                                                                                                                                                                                                                                                              |
|    | Gradeability · Steigfhigkeit · Capacit de gravisement de pente · Superacin de pendientes · Capacit di salita<br>Способность преодолевать подъем                              |    | Swing area · Drehbereich<br>Rayon de rotation · Zona de giro<br>Area di rotazione · Область поворота                                                                                                                                                                                                                      |
|    | Off road / On road · Gelnde / Strae<br>Tout-terrain / Mode "Route" · Todo terreno / En carretera<br>Fuori strada / Su strada · Бездорожье / Дорога                             |    | Hydraulically lockable · Hydraulisch verriegelbar<br>Verrouillable hydrauliquement · Con embulonamiento hidrulico · Con dispositivo di bloccaggio idraulico<br>Гидравлическая блокировка                                                                                                                                 |
|    | Speed · Geschwindigkeit<br>Vitesse · Velocidad<br>Velocit · Скорость                                                                                                            |    | Main winch · Hubwinde · Mcanisme de levage<br>Cabrestante principal · Meccanismo di sollevamento<br>Главная лебдка                                                                                                                                                                                                      |
|   | Outriggers · Absttzung<br>Calage · Estabilizadores<br>Stabilizzazione · На аутригерах                                                                                           |   | Auxiliary winch · Zusatzhubwinde<br>Treuil supplmentaire · Cabrestante auxiliar<br>Argano aggiuntivo · Дополнительная лебдка                                                                                                                                                                                            |
|  | Counterweight · Gegengewicht<br>Contrepoids · Contrapeso<br>Contrappeso · Противовес                                                                                             |  | Type · Typ<br>Tipo · Тип                                                                                                                                                                                                                                                                                                  |
|  | Counterweight element · Gegengewichtselement<br>Elment de contrepoids · Parte del contrapeso<br>Parte contrappeso · Деталь противовеса                                          |  | Lifting capacity · Traglast<br>Charge de levage · Carga<br>Portata · Грузоподъемность                                                                                                                                                                                                                                     |
|  | Length · Lnge<br>Longueur · Longitud<br>Lunghezza · Длина                                                                                                                       |  | Rope sheaves · Seilrollen<br>Poulies de cbles · Poleas de cable<br>Pulegge · Канатные шкивы                                                                                                                                                                                                                              |
|  | Boom elevation · Wippwerk · Mcanisme de relevage<br>Elevacin de pluma · Gruppo di brandeggio<br>Механизм изменения подъема стрелы                                              |  | Parts of line · Seilstrnge<br>Brins de cble · Ramales de cable<br>Spire della fune · Запасовка                                                                                                                                                                                                                          |
|  | Boom telescoping · Teleskopieren<br>Tlescopage de flche · Telescopaje de pluma<br>Telescopaggio · Телескопирование                                                             |  | Dead-weight · Eigengewicht<br>Poids total · Tara<br>Peso proprio · Собственный вес                                                                                                                                                                                                                                        |
|  | Telescopic boom · Teleskopausleger<br>Flche tlescopique · Pluma telescpica<br>Braccio telescopico · Телескопическая стрела                                                    |  | Wire rope length · Hubseillnge<br>Longueur du cble de levage · Longitud del cable de izaje · Lunghezza fune di sollevamento<br>Длина подъемного троса                                                                                                                                                                   |
|  | Radius · Ausladung<br>Porte · Radio<br>Sbraccio · Вылет                                                                                                                         |  | Wire rope diameter · Hubseildurchmesser<br>Dimtre du cble de levage · Dimetro del cable de elevacin · Diametro fune di sollevamento<br>Диаметр подъемного троса                                                                                                                                                      |
|  | Fixed Jib · Starre Spitze<br>Flchette rigide · Plumn fijo<br>Punta rigida · Неподвижный оголовок                                                                               |  | Wire rope pulling force · Hubseilzugkraft<br>Force de traction du cble de levage · Fuerza de traccin del cable de elevacin · Forza di trazione fune di sollevamento<br>Тяговое усилие подъемного троса                                                                                                                 |
|  | Tiltable jib · abwinkelbare Spitze<br>Flchette inclinable · Plumn regulable<br>Punta con regolazione angolo<br>Гусек с изменением угла наклона                                 |  | Weight · Gewicht<br>Poids · Peso<br>Peso · Bec                                                                                                                                                                                                                                                                            |
|  | Hydraulically tiltable jib · hydraulisch abwinkelbare Spitze<br>Flchette inclinable hydrauliquement · Plumn regulable hidrulicamente · Punta con regolazione angolo idraulica |  | Page reference · Seitenverweis<br>Renvoi  une page · Referencia de pgina                                                                                                                                                                                                                                                |





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