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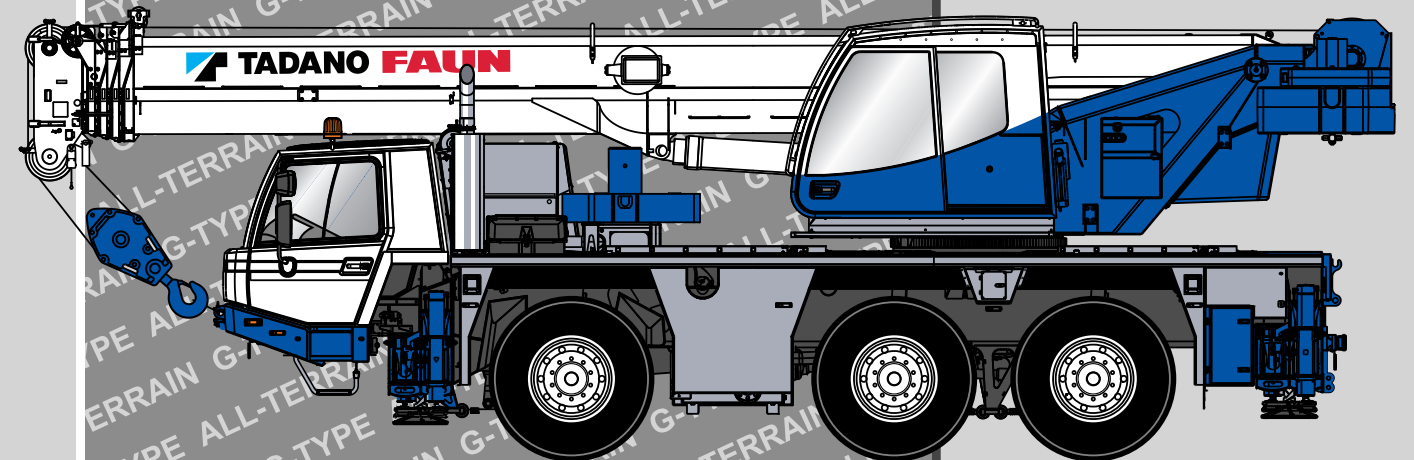
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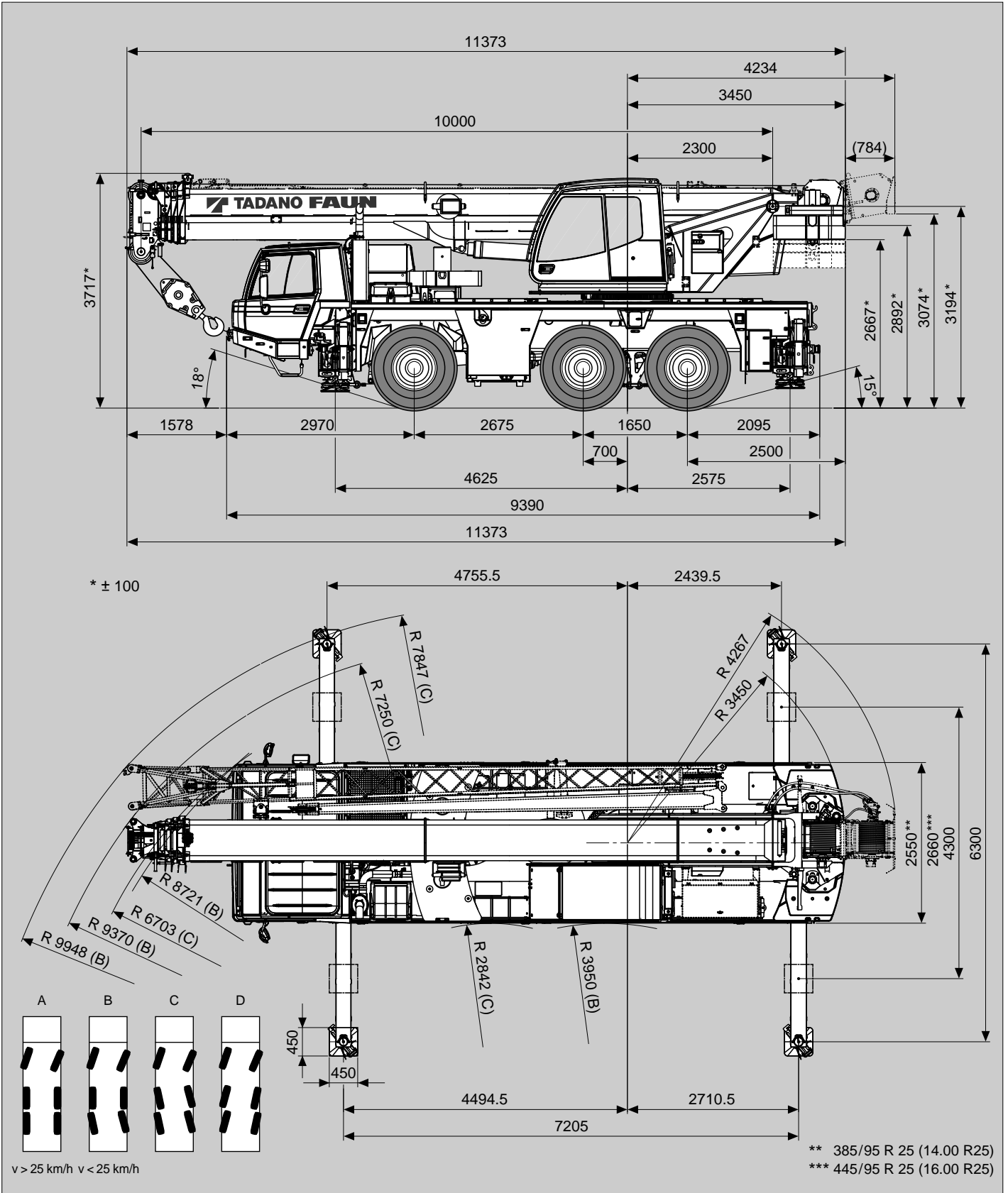


# ALL-TERRAIN ATF 50G-3

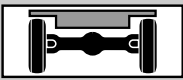


Maße (mm)  
 Dimensions (mm)  
 Dimensiones (mm)

 385/95 R 25  
 (14.00 R 25)



Gewichte / Geschwindigkeiten  
Weights / Working speeds  
Poids / Vitesses  
Pesos / Velocidades de trabajo

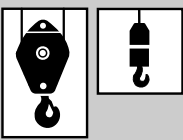
|  |                                      |    |    |    |  |
|--|--------------------------------------|----|----|----|--|
|  | <b>Achse / Axle<br/>Essieu / Eje</b> | 1  | 2  | 3  | <b>Gesamtgewicht / Total weight<br/>Poids total / Peso total</b> |
|  | (t)                                  | 12 | 12 | 12 | 36*  |

\* Incl. 7,0 t Gegengewicht, 9 m / 16 m Auslegerverlängerung, Unterflasche, Hakengeschirr, Bereifung 445/95 R 25 (16.00 R 25).

\* Incl. 7.0 t counterweight, 9 m / 16 m boom extension, hook block, swivel hook, tyres 445/95 R 25 (16.00 R 25).

\* Incl. de 7,0 t contrepoids, 9 m / 16 m fléchette, moufle, élingues, pneus 445/95 R 25 (16.00 R 25).

\* Incl. contrapeso de 7,0 t, 9 m / 16 m plumin, gancho, gancho de bola, neumáticos 445/95 R 25 (16.00 R 25).

|  |   |   |   |   |
|--|---|---|---|---|
|  | <b>Traglast / Lifting capacity / Force<br/>de levage / Capacidad de elevación</b> | <b>Rollen / Sheaves<br/>Pulies / Poleas</b> | <b>Stränge / Parts of line<br/>Brins / Ramales de cable</b> | <b>Gewicht / Weight<br/>Poid / Peso</b> |
|  | 50 t *  | 5   | 11  | 475 kg                                  |
|  | 32 t  | 3   | 7   | 300 kg                                  |
|  | 12.5 t  | 1   | 3   | 185 kg                                  |
|  | 6 t   | -   | 1   | 150 kg                                  |




\* Doppelhaken


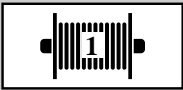


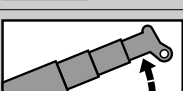

\* Rams horn

\* Moufle avec crochet marin

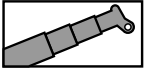
\* Gancho doble



|  |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |   |
|--|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|---|
|  |  | 1 | 2 | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11 | 12 | R1 | R2 |  |
| 385/95<br>(14.00)  | km/h  | 5 | 7 | 9  | 11 | 14 | 18 | 24 | 31 | 40 | 51 | 65 | 84 | 6  | 7  |   |
| 445/95<br>(16.00)  | km/h  | 6 | 7 | 10 | 12 | 16 | 20 | 26 | 34 | 44 | 56 | 71 | 85 | 6  | 8  | 59%   |


|  |  |  |  |
|--|--|--|--|
|  | <b>Stufenlos<br/>Infinitely variable<br/>Progressivement variable<br/>Infinitamente variable</b> | <b>Seil<br/>Rope<br/>Câble<br/>Cable</b> | <b>Max. Seilzug<br/>Max. single line pull<br/>Effort maxi au brin simple<br/>Trio máximo por ramal</b> |
|  | 0 - 120 m/min<br>für einfachen Strang<br>single line<br>au brin simple<br>ramal simple           | 16 mm / 170 m                            | 44 kN  |
|  | 0 - 60 m/min<br>für einfachen Strang<br>single line<br>au brin simple<br>ramal simple            | 16 mm / 170 m                            | 44 kN  |
|  | 0 - 1.9 min <sup>-1</sup>  |  |  |
|  | -2° - +83°<br>ca. 40 s<br>approx. 40 s<br>env. 40 s<br>aproximadamente 40 s                      |  |  |
|  | 10.0 m - 40.0 m<br>ca. 100 s<br>approx. 100 s<br>env. 100 s<br>aproximadamente 100 s             |  |  |

Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación



10t

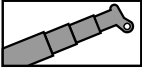
DIN/ISO/EN

|  m | 10.0 m* | 10.0 m | 13.8 m | 17.5 m | 21.3 m | 25.0 m | 28.8 m | 32.5 m | 36.3 m | 40.0 m |
|--|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2.5  | 50.0**  |        |        |        |        |        |        |        |        |        |
| 3.0  | 45.4**  | 45.4** | 30.0   | 30.0   | 20.0   |        |        |        |        |        |
| 3.5  | 41.6    | 41.6   | 30.0   | 30.0   | 20.0   | 20.0   |        |        |        |        |
| 4.0  | 38.4    | 38.4   | 30.0   | 30.0   | 20.0   | 20.0   | 17.6   |        |        |        |
| 4.5  | 35.5    | 35.1   | 30.0   | 28.7   | 20.0   | 20.0   | 17.6   |        |        |        |
| 5.0  | 32.8    | 31.8   | 30.0   | 26.9   | 20.0   | 20.0   | 17.2   | 12.8   |        |        |
| 6.0  | 26.9    | 26.6   | 26.1   | 23.8   | 20.0   | 18.2   | 15.6   | 12.8   | 9.9    |        |
| 7.0  | 22.3    | 22.3   | 21.7   | 21.3   | 18.9   | 16.5   | 14.3   | 12.4   | 9.9    | 7.5    |
| 8.0  |         |        | 19.1   | 19.5   | 17.5   | 15.1   | 13.1   | 11.5   | 9.9    | 7.5    |
| 9.0  |         |        | 15.7   | 16.0   | 16.1   | 13.8   | 12.1   | 10.6   | 9.5    | 7.5    |
| 10.0   |         |        | 13.2   | 13.5   | 13.7   | 12.4   | 11.2   | 9.9    | 8.8    | 7.5    |
| 11.0   |         |        | 11.3   | 11.6   | 11.7   | 10.6   | 10.4   | 9.2    | 8.2    | 7.3    |
| 12.0   |         |        |        | 10.1   | 10.2   | 9.1    | 9.3    | 8.6    | 7.7    | 6.9    |
| 14.0   |         |        |        | 7.8    | 8.0    | 8.1    | 7.1    | 7.3    | 6.8    | 6.1    |
| 16.0   |         |        |        |        | 6.4    | 6.5    | 6.2    | 5.8    | 5.9    | 5.4    |
| 18.0   |         |        |        |        | 5.3    | 5.4    | 5.4    | 4.8    | 4.8    | 4.9    |
| 20.0   |         |        |        |        |        | 4.5    | 4.5    | 4.3    | 3.9    | 4.0    |
| 22.0   |         |        |        |        |        | 3.8    | 3.8    | 3.8    | 3.2    | 3.3    |
| 24.0   |         |        |        |        |        |        | 3.3    | 3.3    | 2.6    | 2.7    |
| 26.0   |         |        |        |        |        |        | 2.8    | 2.8    | 2.1    | 2.3    |
| 28.0   |         |        |        |        |        |        |        | 2.4    | 1.7    | 1.8    |
| 30.0   |         |        |        |        |        |        |        | 2.1    | 1.4    | 1.5    |
| 32.0   |         |        |        |        |        |        |        |        | 1.1    | 1.2    |
| 34.0   |         |        |        |        |        |        |        |        |        | 1.0    |
| 36.0   |         |        |        |        |        |        |        |        |        | 0.7    |
| 38.0   |         |        |        |        |        |        |        |        |        |        |

\* Nach hinten / \* Over rear / \* A l'arrière / \* Sobre la parte trasera

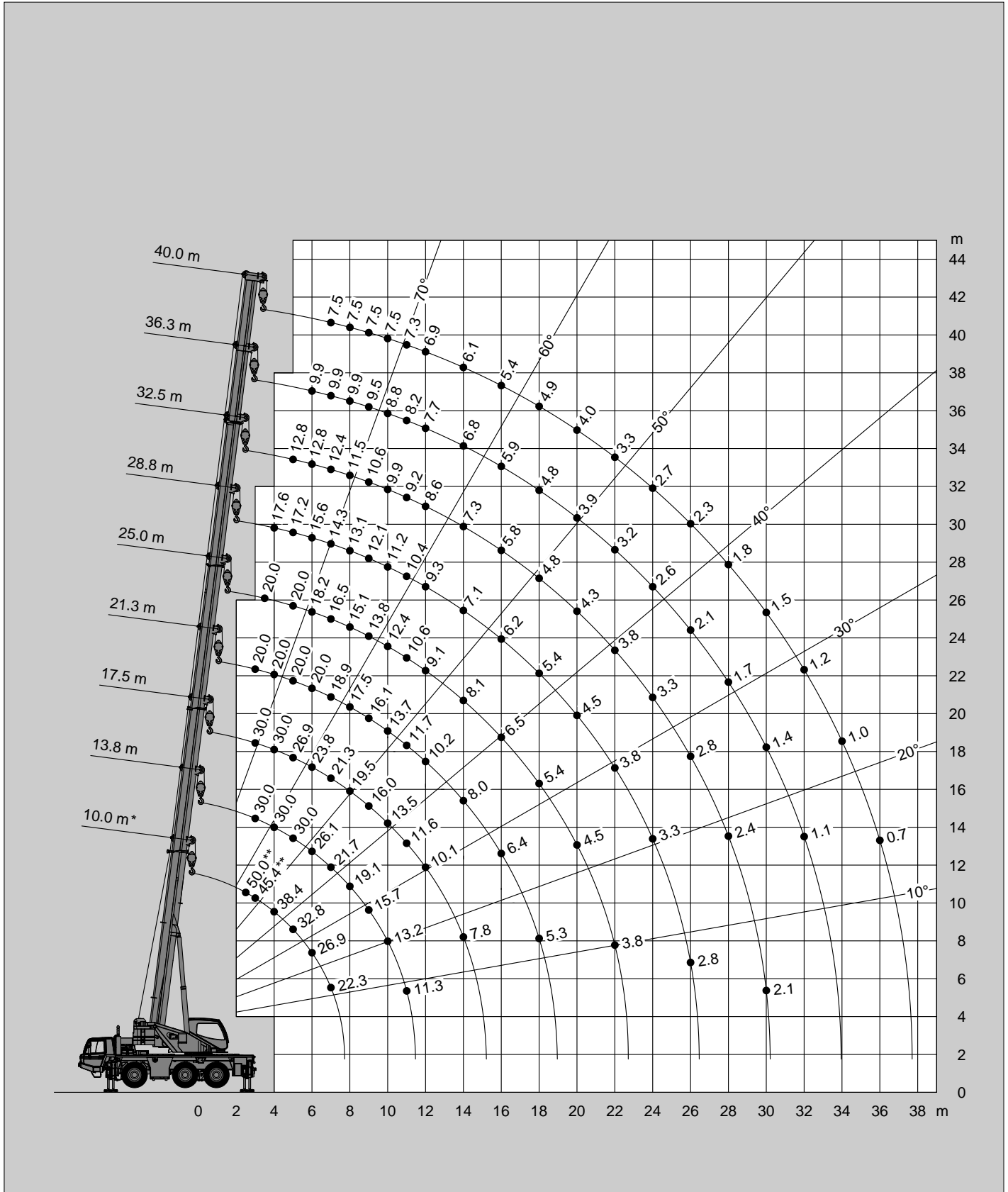
\*\* Mit Zusatzhubausrüstungen / \*\* With additional lifting equipments / \*\* Avec équipements supplémentaires / \*\* Con equipos adicionales

Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



10t

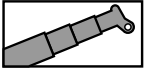
DIN/ISO/EN




\* Nach hinten / \* Over rear / \* A l'arrière / \* Sobre la parte trasera

\*\* Mit Zusatzhubausrüstungen / \*\* With additional lifting equipments / \*\* Avec équipements supplémentaires / \*\* Con equipos adicionales

Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación



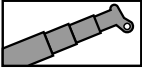
DIN/ISO/EN

|  m | 10.0 m* | 10.0 m | 13.8 m | 17.5 m | 21.3 m | 25.0 m | 28.8 m | 32.5 m | 36.3 m | 40.0 m |
|--|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2.5  | 50.0**  |        |        |        |        |        |        |        |        |        |
| 3.0  | 45.4**  |        |        |        |        |        |        |        |        |        |
| 3.5  | 41.6    | 45.4** | 30.0   | 30.0   | 20.0   |        |        |        |        |        |
| 4.0  | 38.4    | 41.6   | 30.0   | 30.0   | 20.0   | 20.0   |        |        |        |        |
| 4.5  | 35.5    | 37.9   | 30.0   | 30.0   | 20.0   | 20.0   | 17.6   |        |        |        |
| 5.0  | 31.9    | 34.0   | 30.0   | 28.7   | 20.0   | 20.0   | 17.6   |        |        |        |
| 6.0  | 25.5    | 30.8   | 30.0   | 26.9   | 20.0   | 20.0   | 17.2   | 12.8   |        |        |
| 7.0  | 20.6    | 25.4   | 24.9   | 23.5   | 20.0   | 18.2   | 15.6   | 12.8   | 9.9    |        |
| 8.0  |         | 20.4   | 20.0   | 20.0   | 18.9   | 16.5   | 14.3   | 12.4   | 9.9    | 7.5    |
| 9.0  |         |        | 16.8   | 17.1   | 17.1   | 14.9   | 13.1   | 11.5   | 9.9    | 7.5    |
| 10.0   |         |        | 13.7   | 14.0   | 14.2   | 12.7   | 12.1   | 10.6   | 9.5    | 7.5    |
| 11.0   |         |        | 11.5   | 11.8   | 12.0   | 10.7   | 10.8   | 9.9    | 8.8    | 7.5    |
| 12.0   |         |        | 9.8    | 10.1   | 10.2   | 9.8    | 9.3    | 9.2    | 8.2    | 7.3    |
| 14.0   |         |        |        | 8.7    | 8.9    | 9.0    | 8.0    | 8.2    | 7.7    | 6.9    |
| 16.0   |         |        |        | 6.7    | 6.9    | 7.0    | 7.0    | 6.2    | 6.4    | 6.1    |
| 18.0   |         |        |        |        | 5.5    | 5.6    | 5.7    | 5.5    | 5.0    | 5.1    |
| 20.0   |         |        |        |        | 4.4    | 4.5    | 4.6    | 4.7    | 3.9    | 4.1    |
| 22.0   |         |        |        |        |        | 3.7    | 3.8    | 3.8    | 3.1    | 3.2    |
| 24.0   |         |        |        |        |        | 3.1    | 3.1    | 3.2    | 2.5    | 2.6    |
| 26.0   |         |        |        |        |        |        | 2.6    | 2.7    | 1.9    | 2.1    |
| 28.0   |         |        |        |        |        |        | 2.2    | 2.2    | 1.5    | 1.6    |
| 30.0   |         |        |        |        |        |        |        | 1.9    | 1.2    | 1.3    |
| 32.0   |         |        |        |        |        |        |        | 1.6    | 0.9    | 1.0    |
| 34.0   |         |        |        |        |        |        |        |        | 0.6    | 0.7    |
| 36.0   |         |        |        |        |        |        |        |        |        | 0.5    |
| 38.0   |         |        |        |        |        |        |        |        |        |        |

\* Nach hinten / \* Over rear / \* A l'arrière / \* Sobre la parte trasera

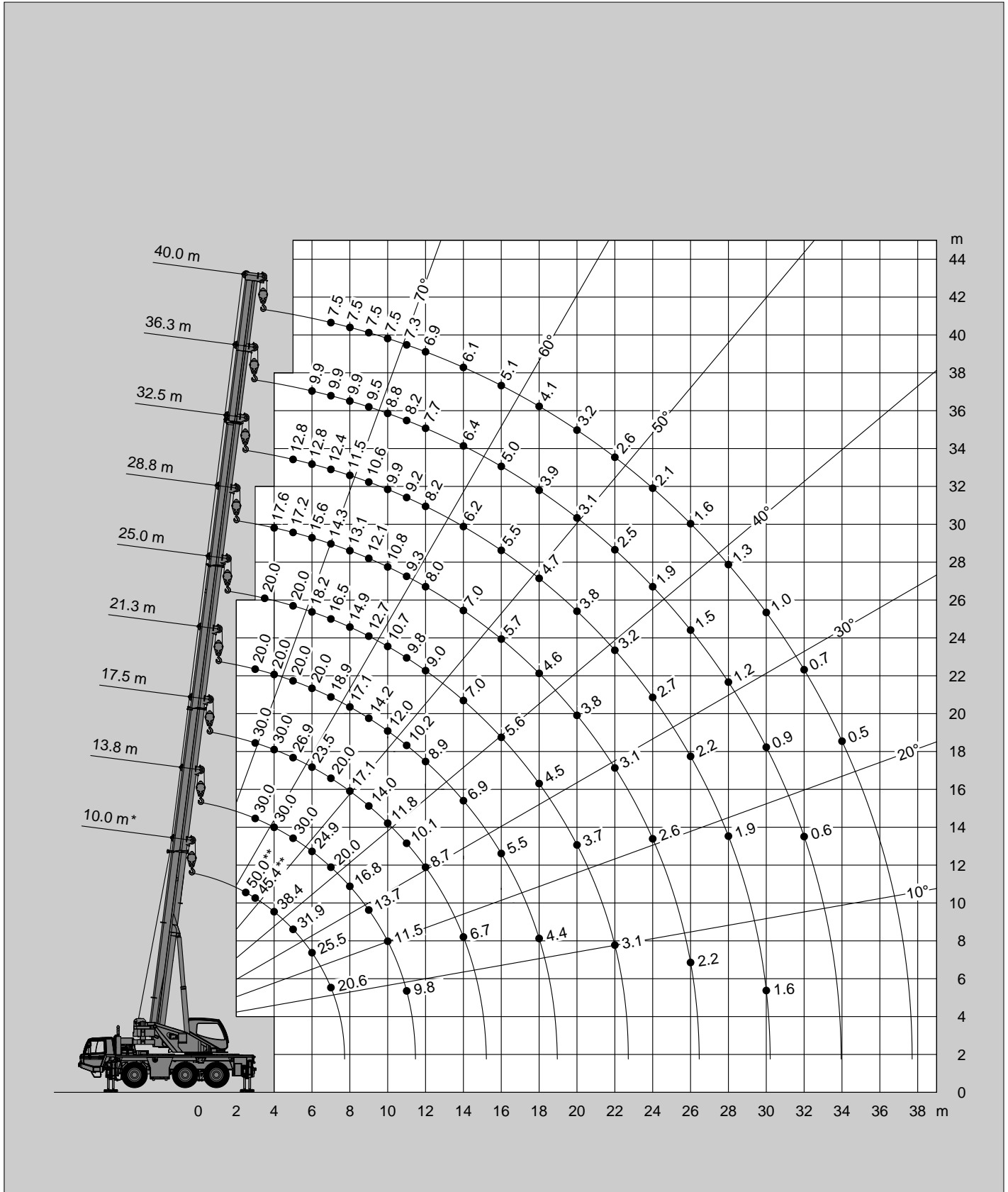
\*\* Mit Zusatzhubausrüstungen / \*\* With additional lifting equipments / \*\* Avec équipements supplémentaires / \*\* Con equipos adicionales

Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



7t

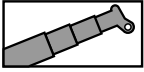
DIN/ISO/EN



\* Nach hinten / \* Over rear / \* A l'arrière / \* Sobre la parte trasera

\*\* Mit Zusatzhubausrüstungen / \*\* With additional lifting equipments / \*\* Avec équipements supplémentaires / \*\* Con equipos adicionales

Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación



4.9t

DIN/ISO/EN

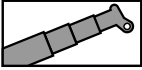
| m    | 10.0 m* | 10.0 m | 13.8 m | 17.5 m | 21.3 m | 25.0 m | 28.8 m | 32.5 m | 36.3 m | 40.0 m |
|------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 2.5  | 50.0**  |        |        |        |        |        |        |        |        |        |
| 3.0  | 45.4**  | 45.4** |        |        |        |        |        |        |        |        |
| 3.5  | 41.6    | 41.6   | 30.0   | 30.0   | 20.0   | 20.0   |        |        |        |        |
| 4.0  | 38.4    | 36.9   | 30.0   | 30.0   | 20.0   | 20.0   | 17.6   |        |        |        |
| 4.5  | 34.5    | 33.1   | 30.0   | 28.7   | 20.0   | 20.0   | 17.6   |        |        |        |
| 5.0  | 30.3    | 29.9   | 29.4   | 26.9   | 20.0   | 20.0   | 17.2   | 12.8   |        |        |
| 6.0  | 24.2    | 24.1   | 23.0   | 20.6   | 20.0   | 18.2   | 15.6   | 12.8   | 9.9    |        |
| 7.0  | 18.1    | 17.9   | 18.7   | 18.9   | 18.1   | 15.6   | 14.3   | 12.4   | 9.9    | 7.5    |
| 8.0  |         |        | 14.7   | 15.1   | 15.2   | 13.0   | 12.7   | 11.5   | 9.9    | 7.5    |
| 9.0  |         |        | 12.0   | 12.3   | 12.5   | 11.3   | 10.9   | 10.6   | 9.5    | 7.5    |
| 10.0 |         |        | 10.0   | 10.3   | 10.5   | 10.5   | 9.4    | 9.2    | 8.8    | 7.5    |
| 11.0 |         |        | 8.5    | 8.8    | 8.9    | 9.1    | 8.5    | 8.1    | 8.0    | 7.3    |
| 12.0 |         |        |        | 7.5    | 7.7    | 7.8    | 7.9    | 7.0    | 7.0    | 6.9    |
| 14.0 |         |        |        | 5.7    | 5.8    | 6.0    | 6.0    | 6.1    | 5.3    | 5.5    |
| 16.0 |         |        |        |        | 4.5    | 4.7    | 4.7    | 4.8    | 4.0    | 4.2    |
| 18.0 |         |        |        |        | 3.6    | 3.7    | 3.8    | 3.8    | 3.1    | 3.2    |
| 20.0 |         |        |        |        |        | 3.0    | 3.0    | 3.1    | 2.4    | 2.5    |
| 22.0 |         |        |        |        |        | 2.4    | 2.5    | 2.5    | 1.8    | 1.9    |
| 24.0 |         |        |        |        |        |        | 2.0    | 2.1    | 1.4    | 1.5    |
| 26.0 |         |        |        |        |        |        | 1.6    | 1.7    | 1.0    | 1.1    |
| 28.0 |         |        |        |        |        |        |        | 1.4    | 0.7    | 0.8    |
| 30.0 |         |        |        |        |        |        |        | 1.1    |        | 0.5    |
| 32.0 |         |        |        |        |        |        |        |        |        |        |
| 34.0 |         |        |        |        |        |        |        |        |        |        |
| 36.0 |         |        |        |        |        |        |        |        |        |        |
| 38.0 |         |        |        |        |        |        |        |        |        |        |

\* Nach hinten / \* Over rear / \* A l'arrière / \* Sobre la parte trasera

\*\* Mit Zusatzhubausrüstungen / \*\* With additional lifting equipments / \*\* Avec équipements supplémentaires / \*\* Con equipos adicionales

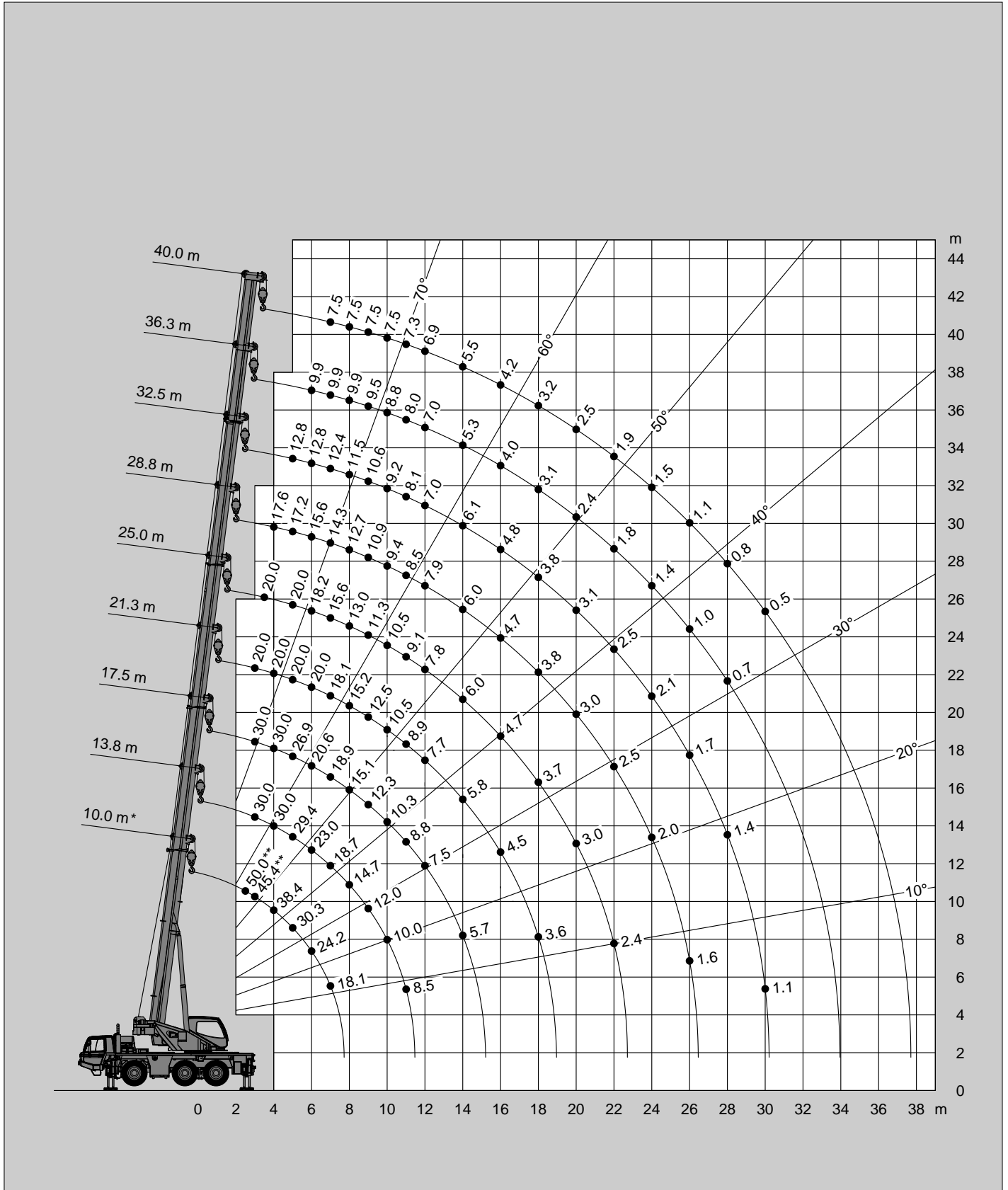


Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



4.9t

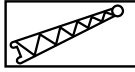
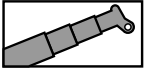
DIN/ISO/EN



\* Nach hinten / \* Over rear / \* A l'arrière / \* Sobre la parte trasera

\*\* Mit Zusatzhubausrüstungen / \*\* With additional lifting equipments / \*\* Avec équipements supplémentaires / \*\* Con equipos adicionales

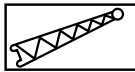
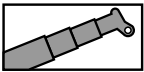
Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación



10t

DIN/ISO/EN

| m    | 10.0 m + 9.0 m |     |     | 32.5 m + 9.0 m |     |     | 36.3 m + 9.0 m |     |     | 40.0 m + 9.0 m |     |     |
|------|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|
|      | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |
| 3.0  | 8.8            |     |     |                |     |     |                |     |     |                |     |     |
| 3.5  | 8.8            |     |     |                |     |     |                |     |     |                |     |     |
| 4.0  | 8.8            | 6.4 |     |                |     |     |                |     |     |                |     |     |
| 4.5  | 8.6            | 6.1 |     |                |     |     |                |     |     |                |     |     |
| 5.0  | 8.1            | 5.9 |     |                |     |     |                |     |     |                |     |     |
| 6.0  | 7.2            | 5.4 |     | 5.8            |     |     |                |     |     |                |     |     |
| 7.0  | 6.5            | 5.0 | 4.2 | 5.8            |     |     |                |     |     |                |     |     |
| 8.0  | 5.9            | 4.7 | 3.9 | 5.8            |     |     | 4.3            |     |     |                |     |     |
| 9.0  | 5.4            | 4.4 | 3.8 | 5.8            |     |     | 4.3            |     |     | 3.7            |     |     |
| 10.0 | 5.0            | 4.1 | 3.6 | 5.8            | 5.3 |     | 4.3            |     |     | 3.7            |     |     |
| 11.0 | 4.6            | 3.9 | 3.5 | 5.7            | 5.1 |     | 4.3            | 4.3 |     | 3.7            |     |     |
| 12.0 | 4.3            | 3.7 | 3.4 | 5.4            | 4.9 | 4.0 | 4.3            | 4.3 |     | 3.7            | 3.7 |     |
| 14.0 | 3.7            | 3.4 | 3.2 | 5.0            | 4.6 | 3.8 | 4.3            | 4.0 | 3.7 | 3.7            | 3.5 | 3.4 |
| 16.0 | 3.2            | 3.1 |     | 4.5            | 4.3 | 3.7 | 4.0            | 3.7 | 3.5 | 3.5            | 3.3 | 3.2 |
| 18.0 |                |     |     | 4.1            | 4.0 | 3.6 | 3.6            | 3.5 | 3.3 | 3.2            | 3.1 | 3.0 |
| 20.0 |                |     |     | 3.7            | 3.7 | 3.5 | 3.3            | 3.2 | 3.1 | 2.9            | 2.9 | 2.8 |
| 22.0 |                |     |     | 3.1            | 3.4 | 3.4 | 3.0            | 3.0 | 3.0 | 2.7            | 2.7 | 2.6 |
| 24.0 |                |     |     | 2.5            | 2.8 | 3.0 | 2.6            | 2.8 | 2.8 | 2.4            | 2.5 | 2.5 |
| 26.0 |                |     |     | 2.1            | 2.3 | 2.4 | 2.2            | 2.4 | 2.6 | 2.2            | 2.3 | 2.3 |
| 28.0 |                |     |     | 1.7            | 1.9 | 2.0 | 1.7            | 2.0 | 2.1 | 1.8            | 2.0 | 2.1 |
| 30.0 |                |     |     | 1.3            | 1.5 | 1.6 | 1.4            | 1.6 | 1.7 | 1.4            | 1.6 | 1.7 |
| 32.0 |                |     |     | 1.0            | 1.2 | 1.2 | 1.1            | 1.2 | 1.3 | 1.1            | 1.3 | 1.4 |
| 34.0 |                |     |     | 0.8            | 0.9 |     | 0.8            | 1.0 | 1.0 | 0.8            | 1.0 | 1.1 |
| 36.0 |                |     |     | 0.5            | 0.6 |     | 0.6            | 0.7 |     | 0.6            | 0.7 | 0.8 |
| 38.0 |                |     |     |                |     |     |                | 0.5 |     |                | 0.5 |     |
| 40.0 |                |     |     |                |     |     |                |     |     |                |     |     |

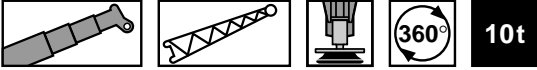


10t

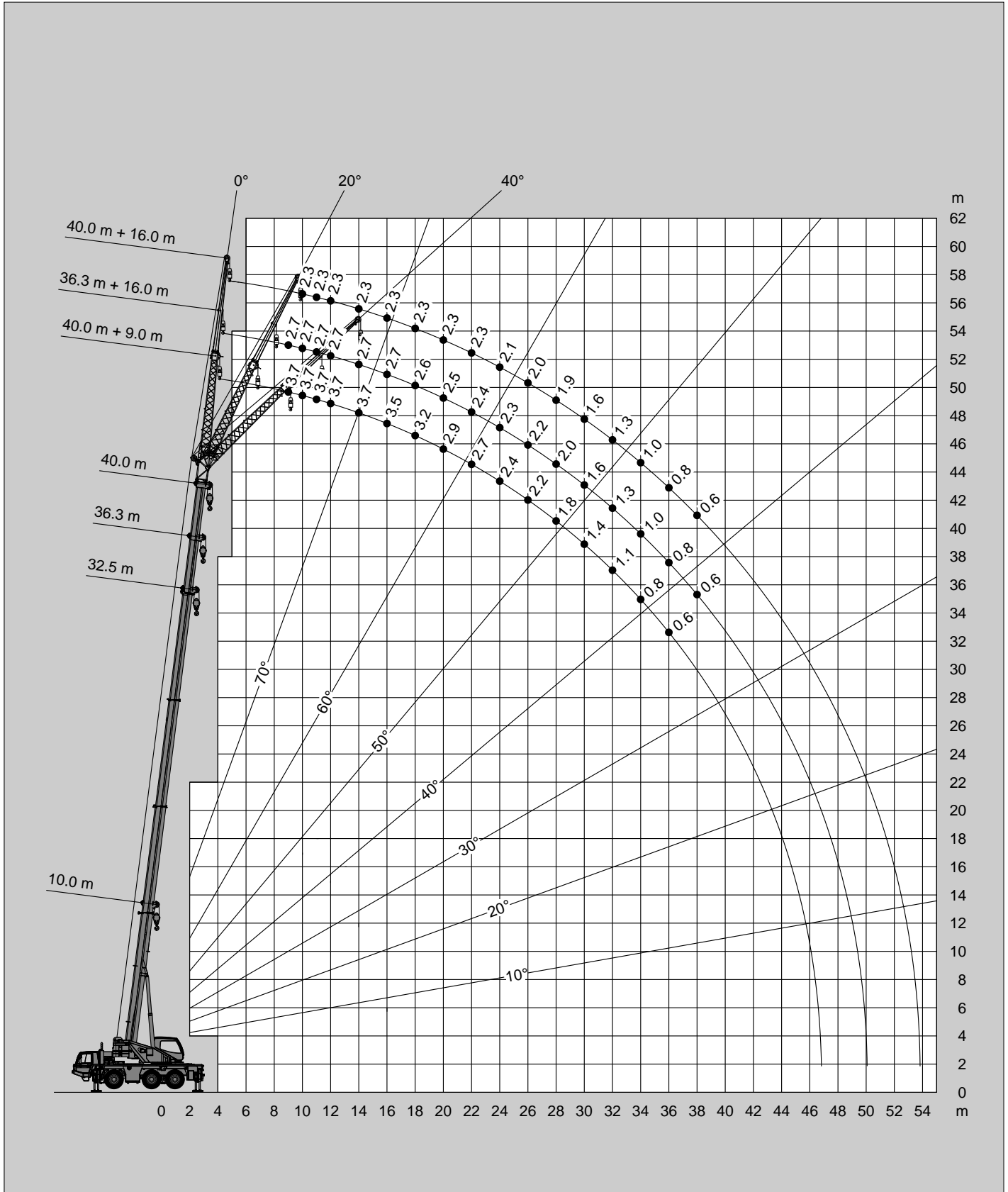
DIN/ISO/EN

| m    | 10.0 m + 16.0 m |     |     | 32.5 m + 16.0 m |     |     | 36.3 m + 16.0 m |     |     | 40.0 m + 16.0 m |     |     |
|------|-----------------|-----|-----|-----------------|-----|-----|-----------------|-----|-----|-----------------|-----|-----|
|      | 0°              | 20° | 40° | 0°              | 20° | 40° | 0°              | 20° | 40° | 0°              | 20° | 40° |
| 3.0  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 3.5  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 4.0  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 4.5  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 5.0  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 6.0  | 4.3             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 7.0  | 4.0             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 8.0  | 3.7             |     |     | 3.0             |     |     |                 |     |     |                 |     |     |
| 9.0  | 3.5             | 2.8 |     | 3.0             |     |     | 2.7             |     |     |                 |     |     |
| 10.0 | 3.3             | 2.7 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 11.0 | 3.1             | 2.6 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 12.0 | 2.9             | 2.4 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 14.0 | 2.6             | 2.2 | 1.9 | 3.0             | 2.4 |     | 2.7             |     |     | 2.3             |     |     |
| 16.0 | 2.3             | 2.0 | 1.8 | 2.9             | 2.3 |     | 2.7             | 2.2 |     | 2.3             | 2.1 |     |
| 18.0 | 2.0             | 1.8 | 1.6 | 2.7             | 2.2 | 1.9 | 2.6             | 2.1 |     | 2.3             | 2.1 |     |
| 20.0 | 1.8             | 1.6 | 1.5 | 2.6             | 2.1 | 1.8 | 2.5             | 2.0 | 1.8 | 2.3             | 2.0 |     |
| 22.0 | 1.6             | 1.5 |     | 2.5             | 2.0 | 1.7 | 2.4             | 2.0 | 1.7 | 2.3             | 1.9 | 1.7 |
| 24.0 |                 |     |     | 2.3             | 1.9 | 1.7 | 2.3             | 1.9 | 1.7 | 2.1             | 1.9 | 1.7 |
| 26.0 |                 |     |     | 2.2             | 1.8 | 1.6 | 2.2             | 1.8 | 1.6 | 2.0             | 1.8 | 1.6 |
| 28.0 |                 |     |     | 2.0             | 1.8 | 1.6 | 2.0             | 1.8 | 1.6 | 1.9             | 1.7 | 1.6 |
| 30.0 |                 |     |     | 1.6             | 1.7 | 1.6 | 1.6             | 1.7 | 1.5 | 1.6             | 1.7 | 1.5 |
| 32.0 |                 |     |     | 1.3             | 1.6 | 1.5 | 1.3             | 1.6 | 1.5 | 1.3             | 1.6 | 1.5 |
| 34.0 |                 |     |     | 1.1             | 1.3 | 1.5 | 1.0             | 1.3 | 1.5 | 1.0             | 1.3 | 1.5 |
| 36.0 |                 |     |     | 0.8             | 1.1 | 1.2 | 0.8             | 1.1 | 1.2 | 0.8             | 1.1 | 1.3 |
| 38.0 |                 |     |     | 0.6             | 0.8 | 0.9 | 0.6             | 0.8 | 1.0 | 0.6             | 0.8 | 1.0 |
| 40.0 |                 |     |     |                 | 0.6 |     |                 | 0.6 | 0.7 |                 | 0.6 | 0.8 |
| 42.0 |                 |     |     |                 |     |     |                 |     |     |                 |     | 0.5 |
| 44.0 |                 |     |     |                 |     |     |                 |     |     |                 |     |     |

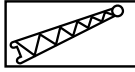
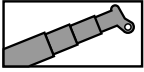
Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



DIN/ISO/EN



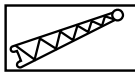
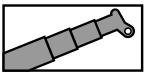
Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación



7t

DIN/ISO/EN

| m    | 10.0 m + 9.0 m |     |     | 32.5 m + 9.0 m |     |     | 36.3 m + 9.0 m |     |     | 40.0 m + 9.0 m |     |     |
|------|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|
|      | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |
| 3.0  | 8.8            |     |     |                |     |     |                |     |     |                |     |     |
| 3.5  | 8.8            |     |     |                |     |     |                |     |     |                |     |     |
| 4.0  | 8.8            | 6.4 |     |                |     |     |                |     |     |                |     |     |
| 4.5  | 8.6            | 6.1 |     |                |     |     |                |     |     |                |     |     |
| 5.0  | 8.1            | 5.9 |     |                |     |     |                |     |     |                |     |     |
| 6.0  | 7.2            | 5.4 |     | 5.8            |     |     |                |     |     |                |     |     |
| 7.0  | 6.5            | 5.0 | 4.2 | 5.8            |     |     |                |     |     |                |     |     |
| 8.0  | 5.9            | 4.7 | 3.9 | 5.8            |     |     | 4.3            |     |     |                |     |     |
| 9.0  | 5.4            | 4.4 | 3.8 | 5.8            |     |     | 4.3            |     |     | 3.7            |     |     |
| 10.0 | 5.0            | 4.1 | 3.6 | 5.8            | 5.3 |     | 4.3            |     |     | 3.7            |     |     |
| 11.0 | 4.6            | 3.9 | 3.5 | 5.7            | 5.1 |     | 4.3            | 4.3 |     | 3.7            |     |     |
| 12.0 | 4.3            | 3.7 | 3.4 | 5.4            | 4.9 | 4.0 | 4.3            | 4.3 |     | 3.7            | 3.7 |     |
| 14.0 | 3.7            | 3.4 | 3.2 | 5.0            | 4.6 | 3.8 | 4.3            | 4.0 | 3.7 | 3.7            | 3.5 | 3.4 |
| 16.0 | 3.2            | 3.1 |     | 4.5            | 4.3 | 3.7 | 4.0            | 3.7 | 3.5 | 3.5            | 3.3 | 3.2 |
| 18.0 |                |     |     | 3.9            | 4.0 | 3.6 | 3.6            | 3.5 | 3.3 | 3.2            | 3.1 | 3.0 |
| 20.0 |                |     |     | 3.0            | 3.4 | 3.5 | 3.2            | 3.2 | 3.1 | 2.9            | 2.9 | 2.8 |
| 22.0 |                |     |     | 2.4            | 2.7 | 3.0 | 2.5            | 2.8 | 3.0 | 2.5            | 2.7 | 2.6 |
| 24.0 |                |     |     | 1.9            | 2.1 | 2.3 | 2.0            | 2.3 | 2.5 | 2.0            | 2.3 | 2.5 |
| 26.0 |                |     |     | 1.4            | 1.7 | 1.8 | 1.5            | 1.8 | 2.0 | 1.6            | 1.8 | 2.0 |
| 28.0 |                |     |     | 1.1            | 1.3 | 1.4 | 1.2            | 1.4 | 1.5 | 1.2            | 1.4 | 1.6 |
| 30.0 |                |     |     | 0.8            | 1.0 | 1.0 | 0.9            | 1.1 | 1.2 | 0.9            | 1.1 | 1.2 |
| 32.0 |                |     |     | 0.5            | 0.7 | 0.7 | 0.6            | 0.8 | 0.9 | 0.6            | 0.8 | 0.9 |
| 34.0 |                |     |     |                |     |     |                | 0.5 | 0.6 |                | 0.5 | 0.6 |
| 36.0 |                |     |     |                |     |     |                |     |     |                |     |     |

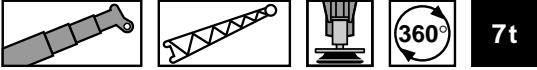


7t

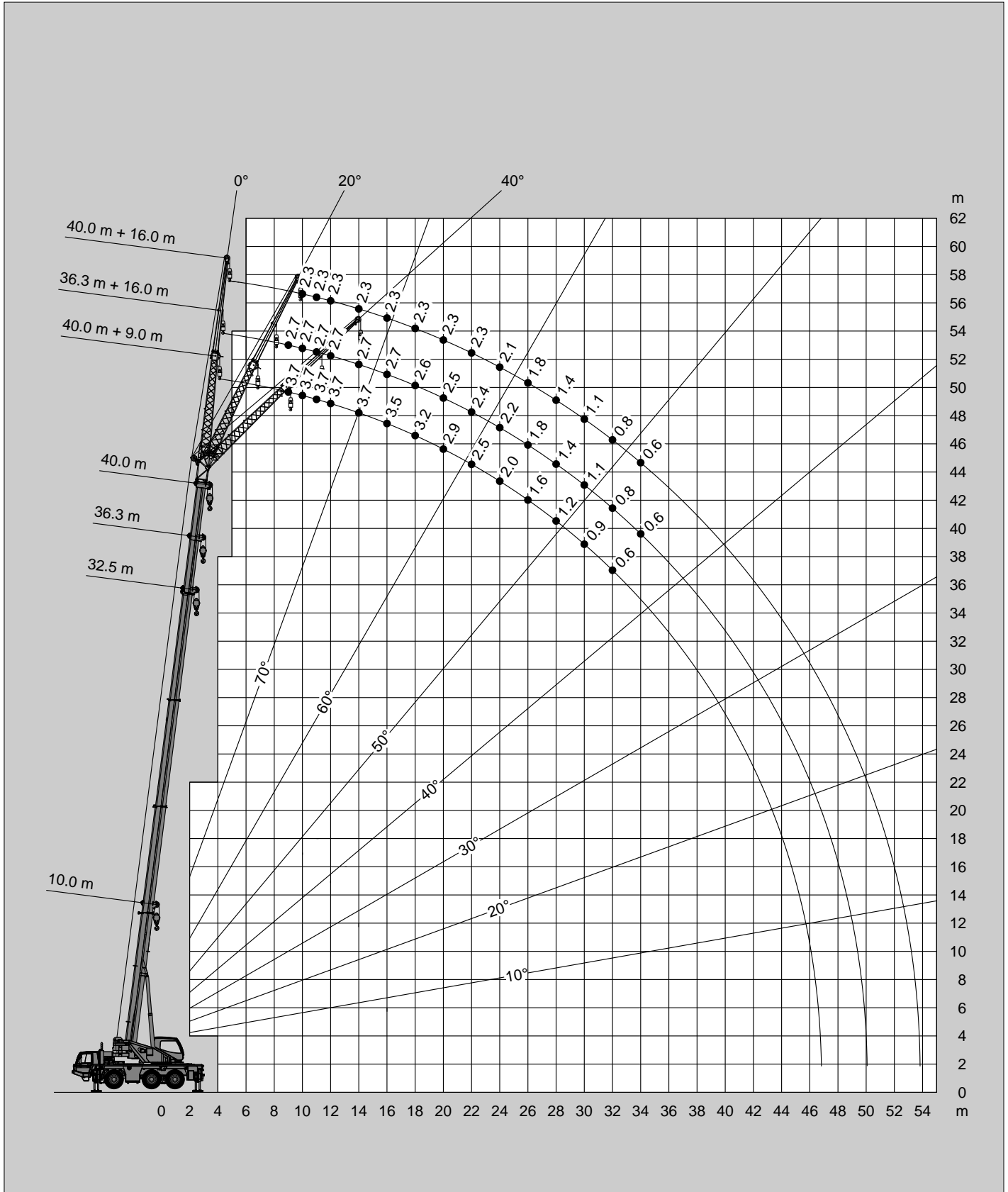
DIN/ISO/EN

| m    | 10.0 m + 16.0 m |     |     | 32.5 m + 16.0 m |     |     | 36.3 m + 16.0 m |     |     | 40.0 m + 16.0 m |     |     |
|------|-----------------|-----|-----|-----------------|-----|-----|-----------------|-----|-----|-----------------|-----|-----|
|      | 0°              | 20° | 40° | 0°              | 20° | 40° | 0°              | 20° | 40° | 0°              | 20° | 40° |
| 3.0  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 3.5  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 4.0  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 4.5  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 5.0  | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 6.0  | 4.3             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 7.0  | 4.0             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 8.0  | 3.7             |     |     | 3.0             |     |     |                 |     |     |                 |     |     |
| 9.0  | 3.5             | 2.8 |     | 3.0             |     |     | 2.7             |     |     |                 |     |     |
| 10.0 | 3.3             | 2.7 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 11.0 | 3.1             | 2.6 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 12.0 | 2.9             | 2.4 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 14.0 | 2.6             | 2.2 | 1.9 | 3.0             | 2.4 |     | 2.7             |     |     | 2.3             |     |     |
| 16.0 | 2.3             | 2.0 | 1.8 | 2.9             | 2.3 |     | 2.7             | 2.2 |     | 2.3             | 2.1 |     |
| 18.0 | 2.0             | 1.8 | 1.6 | 2.7             | 2.2 | 1.9 | 2.6             | 2.1 |     | 2.3             | 2.1 |     |
| 20.0 | 1.8             | 1.6 | 1.5 | 2.6             | 2.1 | 1.8 | 2.5             | 2.0 | 1.8 | 2.3             | 2.0 |     |
| 22.0 | 1.6             | 1.5 |     | 2.5             | 2.0 | 1.7 | 2.4             | 2.0 | 1.7 | 2.3             | 1.9 | 1.7 |
| 24.0 |                 |     |     | 2.2             | 1.9 | 1.7 | 2.2             | 1.9 | 1.7 | 2.1             | 1.9 | 1.7 |
| 26.0 |                 |     |     | 1.8             | 1.8 | 1.6 | 1.8             | 1.8 | 1.6 | 1.8             | 1.8 | 1.6 |
| 28.0 |                 |     |     | 1.4             | 1.8 | 1.6 | 1.4             | 1.8 | 1.6 | 1.4             | 1.7 | 1.6 |
| 30.0 |                 |     |     | 1.1             | 1.5 | 1.6 | 1.1             | 1.5 | 1.5 | 1.1             | 1.4 | 1.5 |
| 32.0 |                 |     |     | 0.8             | 1.1 | 1.4 | 0.8             | 1.1 | 1.4 | 0.8             | 1.1 | 1.4 |
| 34.0 |                 |     |     | 0.6             | 0.9 | 1.0 | 0.6             | 0.9 | 1.1 | 0.6             | 0.9 | 1.1 |
| 36.0 |                 |     |     |                 | 0.6 | 0.8 |                 | 0.6 | 0.8 |                 | 0.6 | 0.8 |
| 38.0 |                 |     |     |                 |     | 0.5 |                 |     | 0.6 |                 |     | 0.6 |
| 40.0 |                 |     |     |                 |     |     |                 |     |     |                 |     |     |

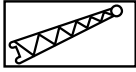
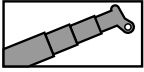
Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



DIN/ISO/EN



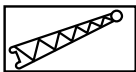
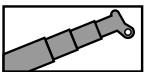
Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación



4.9t

DIN/ISO/EN

| <br>m | 10.0 m + 9.0 m |     |     | 32.5 m + 9.0 m |     |     | 36.3 m + 9.0 m |     |     | 40.0 m + 9.0 m |     |     |
|-------|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|----------------|-----|-----|
|       | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° | 0°             | 20° | 40° |
| 3.0   | 8.8            |     |     |                |     |     |                |     |     |                |     |     |
| 3.5   | 8.8            |     |     |                |     |     |                |     |     |                |     |     |
| 4.0   | 8.8            | 6.4 |     |                |     |     |                |     |     |                |     |     |
| 4.5   | 8.6            | 6.1 |     |                |     |     |                |     |     |                |     |     |
| 5.0   | 8.1            | 5.9 |     |                |     |     |                |     |     |                |     |     |
| 6.0   | 7.2            | 5.4 |     | 5.8            |     |     |                |     |     |                |     |     |
| 7.0   | 6.5            | 5.0 | 4.2 | 5.8            |     |     |                |     |     |                |     |     |
| 8.0   | 5.9            | 4.7 | 3.9 | 5.8            |     |     | 4.3            |     |     |                |     |     |
| 9.0   | 5.4            | 4.4 | 3.8 | 5.8            |     |     | 4.3            |     |     | 3.7            |     |     |
| 10.0  | 5.0            | 4.1 | 3.6 | 5.8            | 5.3 |     | 4.3            |     |     | 3.7            |     |     |
| 11.0  | 4.6            | 3.9 | 3.5 | 5.7            | 5.1 |     | 4.3            | 4.3 |     | 3.7            |     |     |
| 12.0  | 4.3            | 3.7 | 3.4 | 5.4            | 4.9 | 4.0 | 4.3            | 4.3 |     | 3.7            | 3.7 |     |
| 14.0  | 3.7            | 3.4 | 3.2 | 5.0            | 4.6 | 3.8 | 4.3            | 4.0 | 3.7 | 3.7            | 3.5 | 3.4 |
| 16.0  | 3.2            | 3.1 |     | 4.0            | 4.3 | 3.7 | 4.0            | 3.7 | 3.5 | 3.5            | 3.3 | 3.2 |
| 18.0  |                |     |     | 3.0            | 3.5 | 3.6 | 3.2            | 3.5 | 3.3 | 3.2            | 3.1 | 3.0 |
| 20.0  |                |     |     | 2.3            | 2.7 | 3.0 | 2.4            | 2.8 | 3.1 | 2.5            | 2.8 | 2.8 |
| 22.0  |                |     |     | 1.7            | 2.1 | 2.3 | 1.9            | 2.2 | 2.4 | 1.9            | 2.2 | 2.5 |
| 24.0  |                |     |     | 1.3            | 1.6 | 1.8 | 1.4            | 1.7 | 1.9 | 1.4            | 1.7 | 1.9 |
| 26.0  |                |     |     | 0.9            | 1.1 | 1.3 | 1.0            | 1.3 | 1.4 | 1.0            | 1.3 | 1.5 |
| 28.0  |                |     |     | 0.6            | 0.8 | 0.9 | 0.7            | 0.9 | 1.1 | 0.7            | 0.9 | 1.1 |
| 30.0  |                |     |     |                | 0.5 | 0.6 |                | 0.6 | 0.7 |                | 0.6 | 0.8 |
| 32.0  |                |     |     |                |     |     |                |     |     |                |     | 0.5 |
| 34.0  |                |     |     |                |     |     |                |     |     |                |     |     |

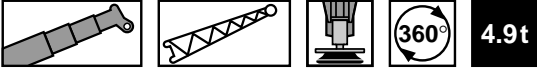


4.9t

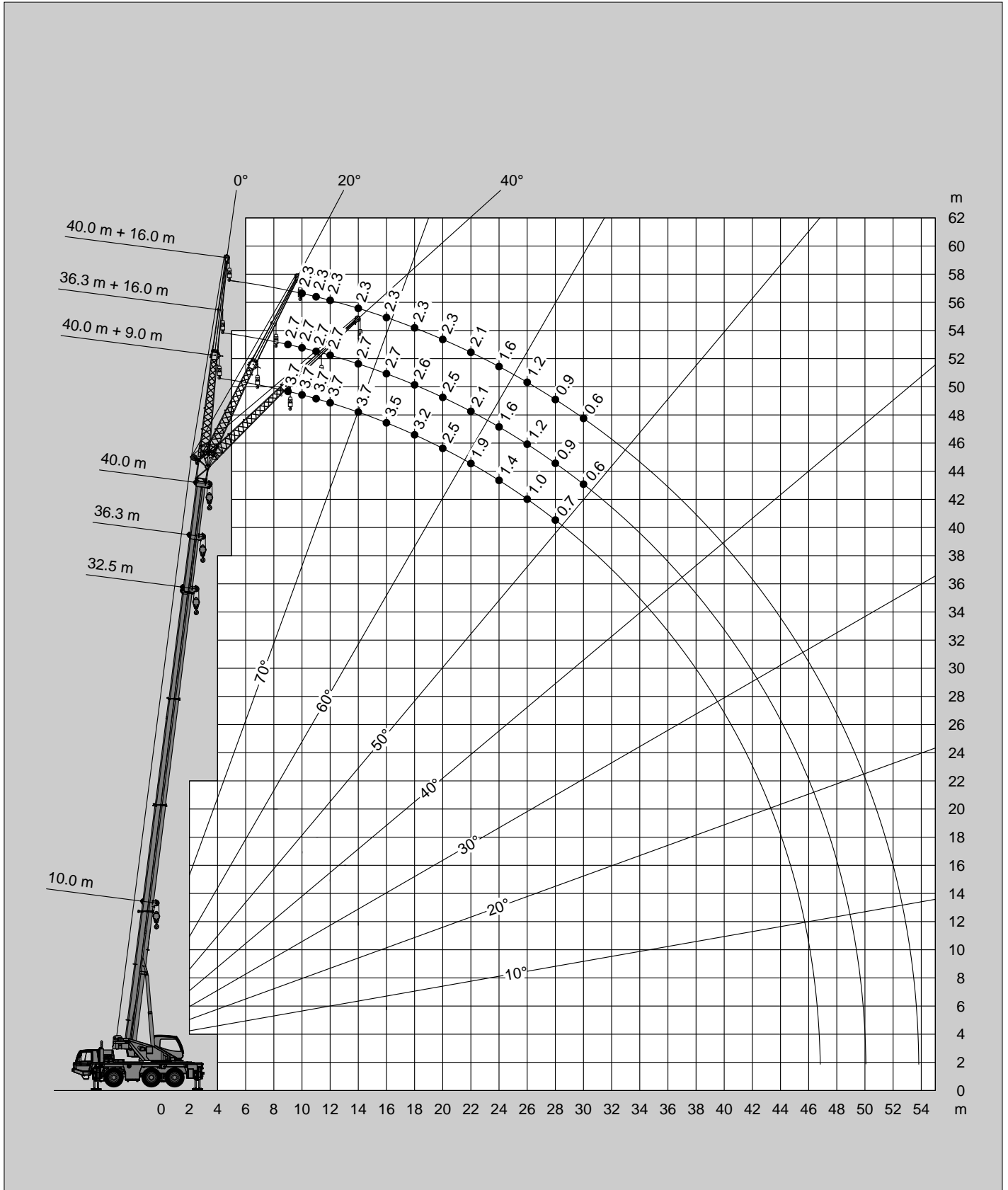
DIN/ISO/EN

| <br>m | 10.0 m + 16.0 m |     |     | 32.5 m + 16.0 m |     |     | 36.3 m + 16.0 m |     |     | 40.0 m + 16.0 m |     |     |
|-------|-----------------|-----|-----|-----------------|-----|-----|-----------------|-----|-----|-----------------|-----|-----|
|       | 0°              | 20° | 40° | 0°              | 20° | 40° | 0°              | 20° | 40° | 0°              | 20° | 40° |
| 3.0   | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 3.5   | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 4.0   | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 4.5   | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 5.0   | 4.4             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 6.0   | 4.3             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 7.0   | 4.0             |     |     |                 |     |     |                 |     |     |                 |     |     |
| 8.0   | 3.7             |     |     | 3.0             |     |     |                 |     |     |                 |     |     |
| 9.0   | 3.5             | 2.8 |     | 3.0             |     |     | 2.7             |     |     |                 |     |     |
| 10.0  | 3.3             | 2.7 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 11.0  | 3.1             | 2.6 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 12.0  | 2.9             | 2.4 |     | 3.0             |     |     | 2.7             |     |     | 2.3             |     |     |
| 14.0  | 2.6             | 2.2 | 1.9 | 3.0             | 2.4 |     | 2.7             |     |     | 2.3             |     |     |
| 16.0  | 2.3             | 2.0 | 1.8 | 2.9             | 2.3 |     | 2.7             | 2.2 |     | 2.3             | 2.1 |     |
| 18.0  | 2.0             | 1.8 | 1.6 | 2.7             | 2.2 | 1.9 | 2.6             | 2.1 |     | 2.3             | 2.1 |     |
| 20.0  | 1.8             | 1.6 | 1.5 | 2.6             | 2.1 | 1.8 | 2.5             | 2.0 | 1.8 | 2.3             | 2.0 |     |
| 22.0  | 1.6             | 1.5 |     | 2.1             | 2.0 | 1.7 | 2.1             | 2.0 | 1.7 | 2.1             | 1.9 | 1.7 |
| 24.0  |                 |     |     | 1.7             | 1.9 | 1.7 | 1.6             | 1.9 | 1.7 | 1.6             | 1.9 | 1.7 |
| 26.0  |                 |     |     | 1.3             | 1.7 | 1.6 | 1.2             | 1.7 | 1.6 | 1.2             | 1.7 | 1.6 |
| 28.0  |                 |     |     | 0.9             | 1.3 | 1.6 | 0.9             | 1.3 | 1.6 | 0.9             | 1.3 | 1.6 |
| 30.0  |                 |     |     | 0.7             | 1.0 | 1.3 | 0.6             | 1.0 | 1.3 | 0.6             | 1.0 | 1.3 |
| 32.0  |                 |     |     |                 | 0.7 | 0.9 |                 | 0.7 | 1.0 |                 | 0.7 | 1.0 |
| 34.0  |                 |     |     |                 | 0.5 | 0.7 |                 | 0.5 | 0.7 |                 | 0.5 | 0.7 |
| 36.0  |                 |     |     |                 |     |     |                 |     |     |                 |     | 0.5 |
| 38.0  |                 |     |     |                 |     |     |                 |     |     |                 |     |     |

Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



DIN/ISO/EN



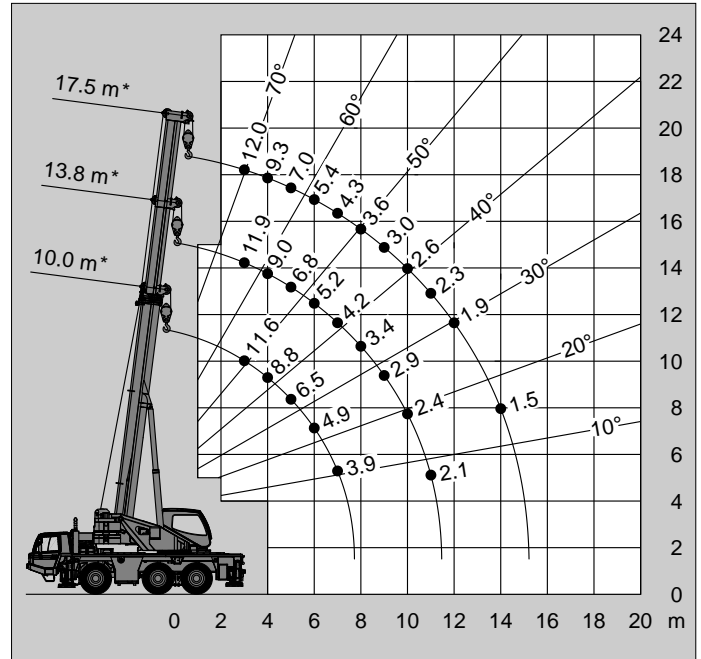
Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación

Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



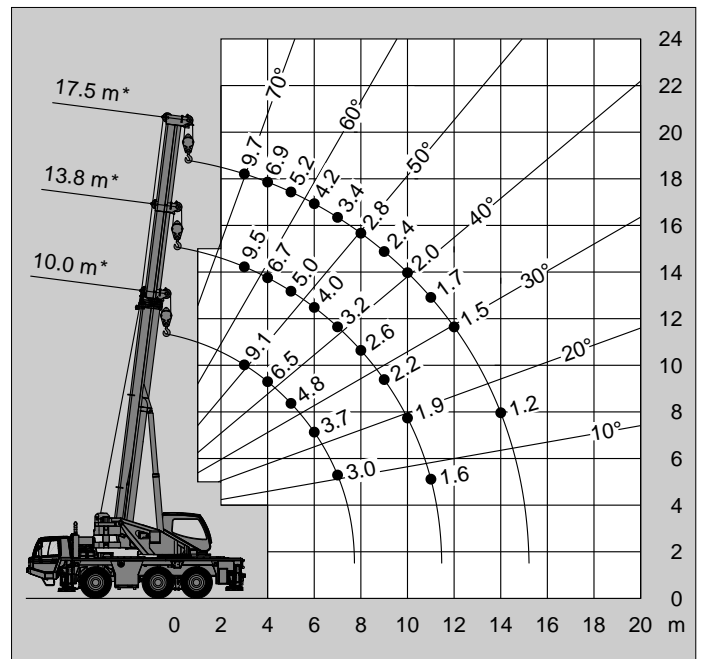
| ↗ m  | 10.0 m* | 13.8 m* | 17.5 m* |
|------|---------|---------|---------|
| 3.0  | 11.6    | 11.9    | 12.0    |
| 3.5  | 10.3    | 10.5    | 10.7    |
| 4.0  | 8.8     | 9.0     | 9.3     |
| 4.5  | 7.7     | 8.0     | 8.1     |
| 5.0  | 6.5     | 6.8     | 7.0     |
| 6.0  | 4.9     | 5.2     | 5.4     |
| 7.0  | 3.9     | 4.2     | 4.3     |
| 8.0  |         | 3.4     | 3.6     |
| 9.0  |         | 2.9     | 3.0     |
| 10.0 |         | 2.4     | 2.6     |
| 11.0 |         | 2.1     | 2.3     |
| 12.0 |         |         | 1.9     |
| 14.0 |         |         | 1.5     |
| 16.0 |         |         |         |

\* Oberwagenverriegelung eingelegt \* Superstructure verrouillé  
\* Superstructure locked \* Bloqueo de superestructura



| ↗ m  | 10.0 m* | 13.8 m* | 17.5 m* |
|------|---------|---------|---------|
| 3.0  | 9.1     | 9.5     | 9.7     |
| 3.5  | 7.6     | 7.9     | 8.1     |
| 4.0  | 6.5     | 6.7     | 6.9     |
| 4.5  | 5.5     | 5.8     | 6.0     |
| 5.0  | 4.8     | 5.0     | 5.2     |
| 6.0  | 3.7     | 4.0     | 4.2     |
| 7.0  | 3.0     | 3.2     | 3.4     |
| 8.0  |         | 2.6     | 2.8     |
| 9.0  |         | 2.2     | 2.4     |
| 10.0 |         | 1.9     | 2.0     |
| 11.0 |         | 1.6     | 1.7     |
| 12.0 |         |         | 1.5     |
| 14.0 |         |         | 1.2     |
| 16.0 |         |         |         |

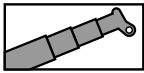
\* Oberwagenverriegelung eingelegt \* Superstructure verrouillé  
\* Superstructure locked \* Bloqueo de superestructura





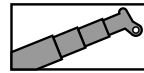
Tragfähigkeiten  
Lifting capacities  
Capacités de levage  
Capacidades de elevación

Hubhöhen  
Lifting heights  
Hauteurs de levage  
Alturas de elevación



4.9t

DIN/ISO/EN



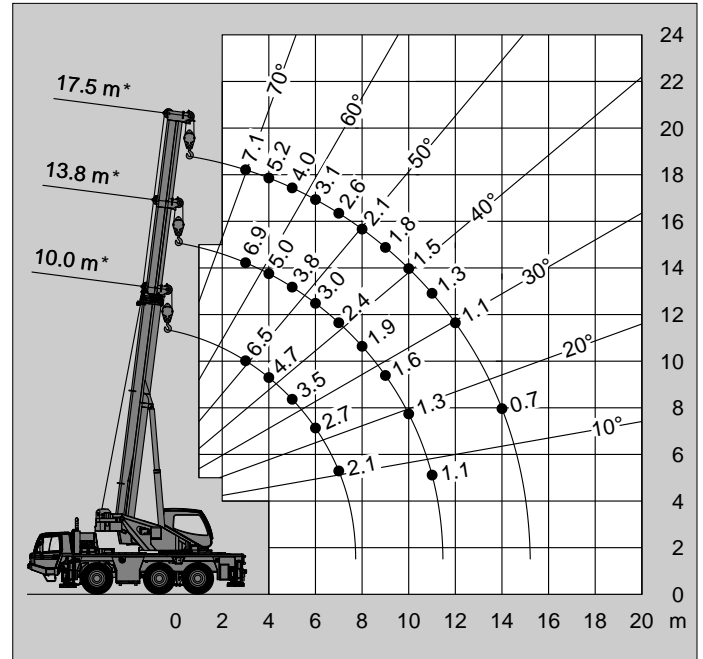
4.9t

DIN/ISO/EN

| ↗ m  | 10.0 m | 13.8 m | 17.5 m |
|------|--------|--------|--------|
| 3.0  | 6.5    | 6.9    | 7.1    |
| 3.5  | 5.5    | 5.9    | 6.1    |
| 4.0  | 4.7    | 5.0    | 5.2    |
| 4.5  | 4.1    | 4.4    | 4.6    |
| 5.0  | 3.5    | 3.8    | 4.0    |
| 6.0  | 2.7    | 3.0    | 3.1    |
| 7.0  | 2.1    | 2.4    | 2.6    |
| 8.0  |        | 1.9    | 2.1    |
| 9.0  |        | 1.6    | 1.8    |
| 10.0 |        | 1.3    | 1.5    |
| 11.0 |        | 1.1    | 1.3    |
| 12.0 |        |        | 1.1    |
| 14.0 |        |        | 0.7    |
| 16.0 |        |        |        |

\* Oberwagenverriegelung eingelegt  
\* Superstructure locked

\* Superstructure verrouillé  
\* Bloqueo de superestructura



### Anmerkungen zu den Traglasttabellen

Die Tragfähigkeiten im Festigkeitsbereich basieren auf DIN 15018 Teil 3 / F.E.M. / EN 13000.

Die Tragfähigkeiten im Standsicherheitsbereich entsprechen DIN 15019 Teil 2 / ISO 4305 / EN 13000.

Die zulässige Windgeschwindigkeit beträgt maximal 15 m/sec.

Die Tragfähigkeiten sind in metrischen Tonnen angegeben.

Das Gewicht des Lasthakens bzw. der Hakenflasche und weiterer Anschlagmittel ist von der Tragfähigkeit abzuziehen.

Die Tragfähigkeiten für den Teleskopausleger gelten nur bei demonstrierter Spitze.

Die Ausladung ist der horizontale Abstand von Mitte Drehkranz bis Mitte freihängender, nicht schwingender Last.

Tragfähigkeitsänderungen vorbehalten.

Obige Angaben dienen nur zur Information. Die Bedienungsanleitungen müssen zu Rate gezogen werden, bevor die Maschine in Betrieb genommen wird. Alle hier gemachten Angaben beziehen sich auf die Standard-Ausführung. Jegliche Ausrüstungsveränderungen können die angegebenen Werte beeinflussen.

### Remarks relating to the rating charts

The lifting capacities in the structural area are based on DIN 15018 part 3 / F.E.M. / EN 13000.

The lifting capacities in the stability area are based on DIN 15019 part 2 / ISO 4305 / EN 13000.

The maximum permissible wind speed for crane operation is 15 m/sec.

The lifting capacities are shown in metric tons.

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.

The lifting capacities for the telescopic boom apply to a crane with no boom extensions being stowed or mounted on the crane.

The working radius is the horizontal distance from the centre of rotation to the centre of the freely suspended non-oscillating load.

The lifting capacities are subject to change without prior notice.

The above remarks are for basic information only and the operator's manual must be consulted before operating this crane. All data and performances refer to the standard crane. The addition of optional and other equipment may affect the performance of the crane.

### Remarques relatives aux tableaux des charges

Les forces de levage sont conformes aux normes DIN 15018, chap. 3 / F.E.M. / EN 13000.

Les forces de levage dans la partie de stabilité au renversement sont conformes aux normes DIN 15019, chap. 2 / ISO 4305 / EN 13000.

La grue peut travailler aux vitesses de vent allant jusqu'à 15 m/s.

Les forces de levage sont données en tonnes métriques.

Le poids du crochet-moufle et de tous les accessoires d'élingage font partie de la charge et sont à déduire des charges indiquées.

Les forces de levage indiquées pour la flèche télescopique s'entendent fléchette déposée.

Comme portée, on entend la distance horizontale du centre de la couronne de rotation au centre de la charge librement suspendue et non oscillante.

Sauf modification de forces de levage.

Les données ci-dessus servent à titre d'information. Avant la mise en marche de la grue il est conseillé d'étudier les instructions de service. Toutes les données indiquées ci-dessus se réfèrent à la machine de base. Tout changement de l'équipement de la grue peut influencer ces valeurs.

### Notas relativas a los graficos de carga

En cuanto a los datos referentes a resistencia, las capacidades de carga están basados sobre las normas DIN 15018, Cap. 3 / F.E.M. / EN 13000.

En cuanto a los datos referentes a estabilidad anti-vuelco, las capacidades de carga están basados sobre las normas DIN 15019, Cap. 2 / ISO 4305 / EN 13000.

La velocidad anemométrica max. admisible es de 15 m/seg.

Las capacidades de carga indicadas en las tablas corresponden a toneladas métricas.

Hay que deducir los pesos del gancho, eslingas y de otros dispositivos para fijación de cargas de los valores indicados en las tablas.

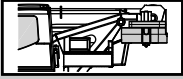
Las capacidades de carga referentes a la pluma telescópica valen solamente si el plumín está desmontada.

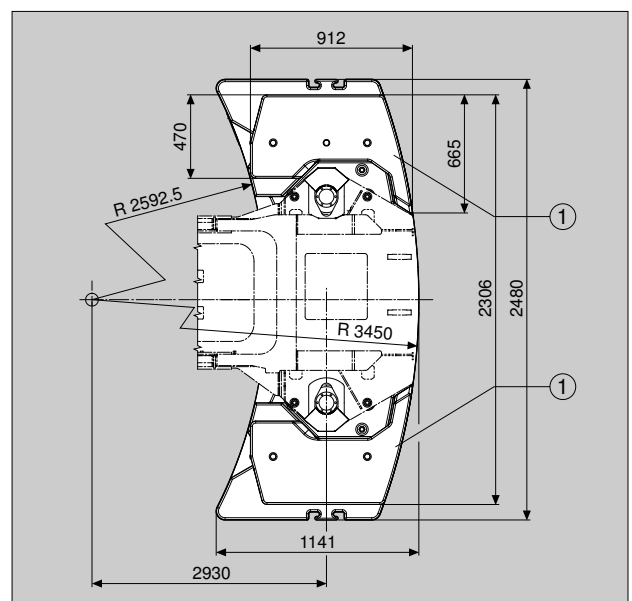
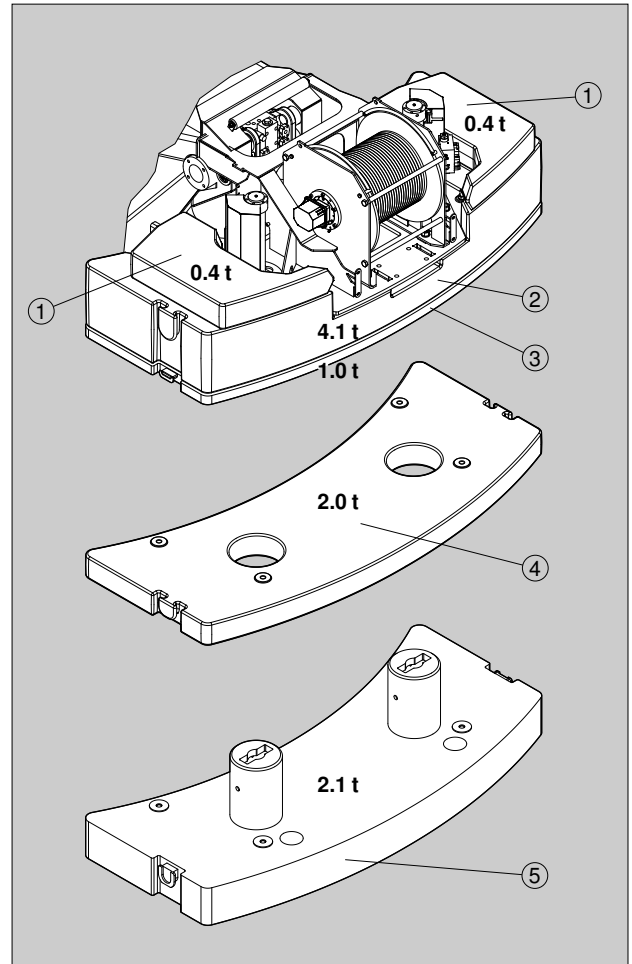
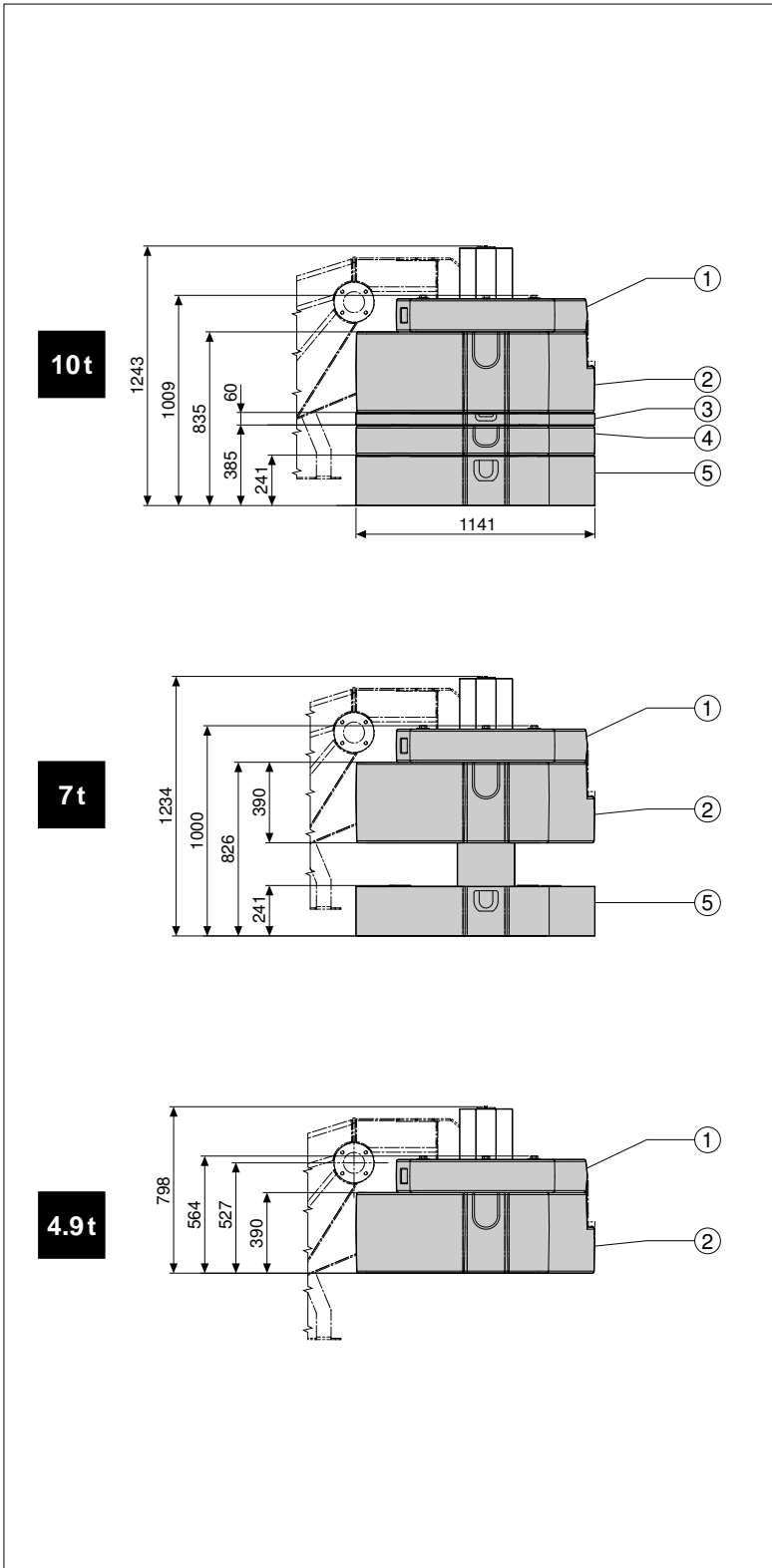
Como alcance se entiende la distancia horizontal desde el centro de la corona de giro hasta el centro de la carga suspendida libremente y no oscilante.

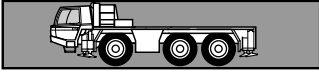
Salvo modificación de capacidades de carga, sin previo aviso.

Los datos arriba indicados sirven solamente para su información. Hay que leer las instrucciones para el uso antes de la puesta en servicio de la máquina. Todos los datos mencionados en las presentes tablas rigen para los modelos standard. Cualquier modificación del equipo montado puede dar lugar a modificaciones de aquellos valores.

Gegengewichtvarianten  
Counterweight versions  
Variations des contrepoids  
Variaciones de contrapeso

|  |  |     |     |     |     |     |
|--|--|-----|-----|-----|-----|-----|
|  | <b>Gegengewicht / Counterweight<br/>Contrepoids / Contrapeso</b> | 2 x | 1 x | 1 x | 1 x | 1 x |
|  | (t)  | ①   | ②   | ③   | ④   | ⑤   |
|  |  | 0.4 | 4.1 | 1.0 | 2.0 | 2.1 |





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

**Abstützung** 4-Punkt-Abstützung, hydraulisch, Bedienungsmöglichkeiten an beiden Seiten des Fahrgestelles und in der Oberwagenkabine.  
Abstützbasis 6,3 m (und 4,3 m) x 7,2 m.

**Motor** Mercedes-Benz 6-Zylinder-Dieselmotor OM 926 LA (Euromot III A / EPA III), wassergekühlt, Leistung 240 kW (326 PS) bei 2200 min<sup>-1</sup>. Drehmoment 1300 Nm (132,5 kpm) bei 1300 bis 1600 min<sup>-1</sup>. Motorleistung nach 80 / 1269 / EWG. Kraftstoffbehälter 350 l.

**Getriebe** ZF-AS-Tronic 12 AS 2302 mechanisches Schaltgetriebe mit elektronisch-pneumatisch betätigter Trockenkupplung und vollautomatischer Schaltung mit 12 Vorwärts- und 2 Rückwärtsgängen. Power / Economy Modus.

**Antrieb** 6 x 6

#### Achsen

1. Achse: gelenkt, angetrieben, Differentialsperre quer.
2. Achse: gelenkt, angetrieben, Differentialsperre längs und quer.
3. Achse: gelenkt, angetrieben, Differentialsperre quer.

**Achsaufhängung** Hydropneumatische Federung mit Niveauregulierung.

**Bremsen** Druckluft-Zweikreis-Bremsanlage mit ABS-System. Feststellbremse als Federspeicherbremse an der 2. und 3. Achse wirkend. Konstantdrosselanlage mit Auspuffklappenbremse als Dauerbremse.

**Räder** 6-fach 385/95 R 25 (14.00 R 25), Breite 2,55 m.

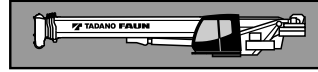
**Lenkung** ZF-Servocom-Zweikreis-Hydraulenlenkung. Mechanische Lenkung der 1. Achse und Mitlenken der 3. Achse (bis zu einer Geschwindigkeit von 25 km/h), hydraulisch unterstützt, mit Notlenkpumpe. Lenkung aller Achsen möglich. Hydrostatische Lenkung aller Achsen aus der Oberwagenkabine.

**Unterswagenkabine** Zwei-Mann-Frontfahrerhaus in Stahl-Kunststoff-Verbund-Konstruktion, Sicherheitsverglasung, luftgefederte Sitze und motorabhängige Warmwasserheizung, Kontroll- und Bedienungselemente für den Fahrbetrieb. Tempomat-Funktion.

**Elektrische Anlage** 24 Volt-Gleichstrom, 2 Batterien, Die elektrische Anlage entspricht der EG-Norm.

**Zusatzrüstung** (gegen Mehrpreis)  
Anhängerkupplung, Wirbelstrombremse, motorunabhängige Zusatzheizung mit Motorvorwärmung, Klimaanlage, 445/95 R 25 (16.00 R 25) Bereifung, Reserverad, Sonderlackierung und Beschriftung.

Weitere Zusatzrüstung auf Anfrage.



**Rahmen** Verwindungssteife Schweißkonstruktion mit einer außenverzahnten, einreihigen Kugeldrehverbindung, um 360° unbegrenzt drehbar.

**Hydraulik System** Diesel-hydraulisch mit 3-Kreis-Hydraulik, 1 Axialkolbendoppelpumpe (hydraulisch verstellbar) und 1 Zahnradpumpe, Ölkühler, alle Pumpen vom Unterswagenmotor angetrieben. Bei Kranbetrieb: 204 kW (277 PS) bei 1500 min<sup>-1</sup> (DIN 6270B).

**Steuerung** Zwei 4-fach Kreuzsteuerhebel mit hydraulischer Vorsteuerung.

**Teleskopausleger** Fünfteiliger Teleskopausleger aus hochfestem Feinkornstahl, bestehend aus einem Grundausleger und 4 Teleskopteilen, zwei einstufigen Teleskopzylindern und Seilen, hydraulisch unter Teillast teleskopierbar. 10,0 m - 40,0 m lang.

**Wippwerk** Ein Differentialzylinder mit angebautelem Senkbremssperrventil.

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

**Drehwerk** Axialkolben-Motor, zweistufiges Planetengetriebe mit fußbetätigter Betriebsbremse und Feststellung. Drehgeschwindigkeit stufenlos von 0 - 1,9 min<sup>-1</sup>.

**Gegengewicht** Standard 7 t teilbar. Die Bedienung erfolgt aus der Oberwagenkabine.

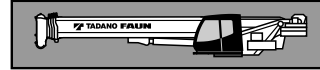
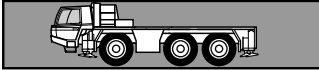
**Oberwagenkabine** Großräumige Krankabine in Stahl-Kunststoff-Ausführung mit Sicherheitsverglasung und getönten Scheiben, kippbarem Arbeitsplatz mit verstellbarem, hydraulisch gedämpftem Fahrersitz, motorunabhängige Warmwasserheizung, Kontroll- und Bedienungselemente für Kranbetrieb, Verfahrbarkeit vom Oberwagen und Abstützbetätigung.

**Elektrische Anlage** 24 Volt-Gleichstrom, 2 Batterien.

**Sicherheitseinrichtungen** Lastmomentbegrenzung (LMB), Arbeitsbereichsanzeige, Hubendschalter, Windenendschalter, Seilwindendrehmelder, Sicherheitsventile gegen Rohr- und Schlauchbrüche. Sperrventile an Hydraulik-Zylindern.

**Zusatzrüstung** (gegen Mehrpreis)  
Auslegerverlängerung 9,0 m / 16,0 m, Schwerlastspitze 1,6 m, Zusatzgegengewicht 3 t, Gegengewichtsvarianten 4,9 t, 10 t, verschiedene Unterflaschen, Klimaanlage, Arbeits- und Drehbereichsbegrenzung, Zusatzölkühler, Sonderlackierung und Beschriftung.

Weitere Zusatzrüstung auf Anfrage.



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

**Outriggers** 4 point, telescopic hydraulic outriggers with controls on both sides of carrier and in superstructure cab. Outrigger base 6.3 m (4.3 m mid extension) x 7.2 m.

**Carrier engine** Mercedes-Benz 6 cylinder model OM 926 LA (Euromot III A / EPA III), water-cooled diesel engine. Rated at 240 kW (326 HP) at 2200 min<sup>-1</sup>. Torque 1300 Nm (132.5 kpm) at 1300 - 1600 min<sup>-1</sup>. Engine rating according to 80 / 1269 / EWG. Fuel tank 350 l.

**Transmission** ZF-AS-Tronic 12 AS 2302 mechanical transmission with electro-pneumatically operated dry-type clutch and automatic gear shifting with 12 forward gears and 2 reverse gears. Power / Economy mode.

**Drive** 6 x 6

#### Axles

1<sup>st</sup> axle: steered, driven.  
2<sup>nd</sup> axle: steered, driven, with longitudinal differential lock.  
3<sup>rd</sup> axle: steered, driven.  
All driven axles with transverse differential locks.

**Suspension** Hydro-pneumatic with levelling adjustment.

**Brake system** Service brakes: dual circuit compressed air system with ABS. Parking brake: spring loaded type acting on 2<sup>st</sup> and 3<sup>rd</sup> axles. Auxiliary brakes: engine exhaust brake and constant throttle engine brake system.

**Tyres** (6) 385/95 R 25 (14.00 R 25), width 2.55 m.

**Steering system** ZF Servocom dual circuit hydraulic steering, mechanical hydraulically-assisted steering of 1<sup>st</sup> axle and 3<sup>rd</sup> axle up to a travel speed of 25 km/h, emergency steering pump. Steering of all axles possible. All axles steered hydrostatically from superstructure cab.

**Carrier cab** Two man full width cab of composite (steel sheet metal and fibre-glass) structure, with safety glass, air-cushioned adjustable seats, engine dependent hot-water heater. Complete controls and instrumentation for road travel. Speed control.

**Electrical system** 24 volt DC system, 2 batteries. Electrical system conforms with EEC regulations.

#### Optional Equipment (at extra charge)

Towing attachment, eddy current retarder brake, engine independent additional heater with engine pre-heat, air conditioning, 445/95 R 25 (16.00 R 25) tyres, spare wheel and tyre, special painting and lettering.

Further optional equipment available upon request.

**Frame** Torsion-resistant, all-welded structure of high strength steel. Connected to carrier by single-row ball-bearing slewing ring with external gearing for 360° continuous rotation.

**Hydraulic system** Three circuit diesel hydraulic system with 1 double axial piston pump (hydraulically adjustable) and 1 gear pump, oil cooler. Pumps driven by carrier engine rated at 204 kW (277 HP) at 1500 min<sup>-1</sup> (DIN 6270B).

**Controls** Hydraulic, 2 joy-stick levers for simultaneous operation of crane motions.

**Telescopic boom** 5 sections, made of high tensile, fine-grained steel, consisting of 1 base section and 4 telescoping sections extended by means with two single telescopic cylinders and ropes. All telescope sections extendable under partial load. 10.0 m to 40.0 m long.

**Derricking system** 1 double acting hydraulic cylinder with integral brake and holding valve.

**Main winch** Axial piston motor, winch drum with integrated planetary reduction and with hydraulically controlled spring-loaded, multiple disc brake and with integrated free rotation (no sagging of load when hoisting). Hoist cable with 'Super-Stop' easy reeving system.

**Slewing system** Axial piston motor with two-stage planetary reduction with a foot actuated service and a parking brake. Speed infinitely variable 0 - 1.9 min<sup>-1</sup>.

**Counterweight** Standard 7 t divisible, assembled and disassembled by hydraulic cylinders controlled from superstructure cab.

**Superstructure cab** Spacious panoramic cab of composite structure with safety (tinted) glass windows, tiltable cockpit with hydraulically cushioned adjustable seat, engine independent hot-water heater. Complete controls and instrumentation for crane operation, on-site travelling and outriggers.

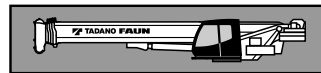
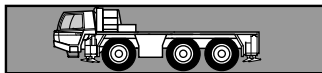
**Electrical system** 24 volt DC system, 2 batteries.

**Safety devices** Load moment device (LMD), working area display, hoist limit switch, lower limit switch, drum turn indicator, safety valves against pipe and hose rupture. Holding valves on hydraulic cylinders.

#### Optional Equipment (at extra charge)

Boom extensions 9.0 m to 16.0 m, heavy duty jib 1.6 m additional counterweight 3.0 t, counterweight variations 4.9 t, 10.0 t, selection of hook blocks, air conditioning, working area limitation, additional oil cooler, special painting and lettering.

Further optional equipment available upon request.



**Châssis** Construction mécanosoudé, en acier à grain fin très rigide, résistant aux flexions et aux torsions.

**Calage** Dispositif de calage horizontal et vertical en 4 points, entièrement déployable hydrauliquement. Commande des mouvements sur les deux côtés du porteur et depuis la cabine de la superstructure. Calage 6,3 m (aussi 4,3 m) x 7,2 m.

**Moteur** Mercedes-Benz diesel 6 cylindres, modèle OM 926 LA (Euromot III A/EPA III), refroidi par eau, de 240 kW (326 CV) à 2200 min<sup>-1</sup>.  
Couple: 1300 Nm (132,5 kpm) à 1300 à 1600 min<sup>-1</sup>.  
Puissance selon 80/1269/EWG.  
Capacité du réservoir 350 l.

**Boîte de vitesse** Boîte mécanique ZF-AS-Tronic, modèle 12 AS 2302 avec embrayage électro-pneumatique réglé à commande et boîte automatique, 12 vitesses AV et 2 vitesses AR. Mode max. performance / économique.

**Entraînement** 6 x 6

#### Essieux

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

**Suspension** Hydro-pneumatique, avec réglage de niveau.

**Freins** Système à air comprimé, à double circuit, avec système ABS. Frein de stationnement: avec accumulateurs à ressort agissant sur le 2<sup>ème</sup> et 3<sup>ème</sup> essieu. Frein continu: Frein sur échappement avec étrangleur.

**Pneus** 6 x 385/95 R 25 (14.00 R 25), (largeur 2,55 m).

**Direction** Servocom à double circuit, marque ZF. Direction mécanique du 1<sup>er</sup> essieu, à assistance hydraulique, jusqu'à une vitesse de 25 km/h direction automatique du 3<sup>ème</sup> essieu, avec pompe de direction auxiliaire. Direction de tous les essieux possible. Direction hydro-statique de tous les essieux depuis la cabine du grutier.

**Cabine** Cabine bi-place, construction en matière composite fibre de verre et acier. Vitrage en verre de sécurité, sièges à suspension pneumatique. Chauffage à eau chaude relié au moteur. Organes de contrôle et de commande pour la conduite. Régulateur de vitesse.

**Système électrique** 24 V courant continu, 2 batteries. Conforme aux normes CE.

**Équipement supplémentaire** (avec supplément de prix) Attache-remorque, frein électrique, chauffage auxiliaire indépendant du moteur avec préchauffage du moteur, climatisation, pneus 445/95 R 25 (16.00 R 25), roue de secours, peinture spéciale et inscription.

Autres équipements supplémentaires sur demande.

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

**Système hydraulique** Diesel-hydraulique à 3 circuits, 1 double pompe à pistons axiaux (à réglage hydraulique) et 1 pompe à engrenages, refroidisseur d'huile, pompes actionnées du moteur châssis.  
Opération grue: 204 kW (277 CV) à 1500 min<sup>-1</sup> selon DIN 6270B.

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

**Flèche télescopique** 1 flèche de base et 4 éléments télescopiques en acier fin avec 2 vérins hydrauliques à 1 étage et câbles, hydrauliquement télescopable avec charge partielle. Logueur 10,0 m à 40,0 m.

**Mécanisme de relevage** 1 vérin différentiel muni de clapet de freinage de descente.

**Mécanisme de levage** Moteur hydraulique, tambour de levage avec boîte planétaire incorporée, frein d'arrêt à disques multiples à ressort, libéré lors du levage. Câble de levage avec dispositif 'Super-Stop'.

**Orientation** Moteur hydraulique avec entraînement planétaire à 2 gammes. Frein de service actionné par l'intermédiaire d'une pédale et frein de stationnement. Vitesse de rotation 0 à 1,9 min<sup>-1</sup> en continu.

**Contrepoids** Standard 7 t divisible, commandé de la cabine du grutier.

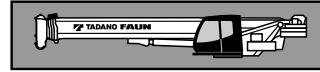
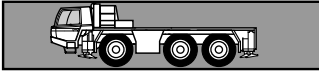
**Cabine du grutier** Cabine de grue spacieuse, construction en matière combinée acier / synthétique, avec vitrage de sécurité en verre teinté, siège réglable et amorti hydrauliquement, inclinable avec instruments de commande, chauffage à eau chaude indépendant du moteur, éléments de commande et de contrôle pour travaux sur chantier, conduite et calage de la grue depuis la cabine du grutier.

**Système électrique** 24 V courant continu, 2 batteries.

**Dispositifs de sécurité** Limiteur de charge (CEC), indicateur de portée, interrupteur de fin de course de levage et de treuil, indicateur du nombre de tours, soupapes de sécurité contre ruptures des conduites et flexibles, clapets sur vérins hydrauliques.

**Équipement supplémentaire** (avec supplément de prix) Fléchette 9,0 m / 16,0 m, fléchette pour levage lourde 1,6 m, contrepoids additionnel de 3 t, combinaison différentes de contrepoids 4,9 t / 10 t, sélection de moufles, 2<sup>ème</sup>, climatisation, limitation de rotation et limiteur de portée, refroidisseur d'huile supplémentaire, peinture spéciale et inscription.

Autres équipements supplémentaires sur demande.



**Chasis portante** Construcción de acero de alta resistencia soldado, resistente a la torsión y a la flexión.

**Estabilizadores** Estabilizadores hidráulicos de 4 puntos. Posibilidad de manejo desde ambos lados del chasis portante y desde la cabina de la grúa. Extensión de los estabilizadores: 6,3 m (y 4,3 m) x 7,2 m.

**Motor** Mercedes-Benz modelo OM 926 LA (Euromot III A / EPA III), 6 cilindros, diesel, refrigerado por agua. Nominal 240 kW (326 HP) a 2200 min<sup>-1</sup>. Par 1300 Nm (132,5 kpm) a 1300 hasta 1600 min<sup>-1</sup>. Potencia del motor según 80 / 1269 / EWG. Depósito de combustible de 350 l.

**Transmisión** Transmisión mecánica tipo ZF-AS Tronic modelo 12 AS 2302 con accionamiento electro - neumáticamente embrague en seco y cambio automático 12 marchas delanteras y 2 marchas traseras. Modo rendimiento máximo / económico.

**Tracción** 6 x 6

#### Ejes

- 1º eje: de dirección, accionado, con bloqueo diferencial transversal.
- 2º eje: de dirección, accionado, con bloqueo diferencial transversal y longitudinal.
- 3º eje: de dirección, accionado, con bloqueo diferencial transversal.

**Suspensión** Suspensión hidroneumática con regulación de nivel.

**Sistemas de frenos** Accionamiento neumático de doble circuito con sistema anti bloqueo ABS. Freno de estacionamiento del tipo muelles cargados, liberados por aire, sobre los ejes 2º y 3º. Freno continuo: Freno de motor diesel en el escape.

**Neumáticos** 6 x 385/95 R 25 (14.00 R 25), ancho 2,55 m.

**Dirección** Hidráulica ZF Servocom de doble circuito. Dirección mecánica del 1º eje y direccionable del 3º eje (hasta una velocidad de 25 km/h), con bomba hidráulica de emergencia accionada por la transmisión. Dirección de todos los ejes posible. Desde la cabina de la superestructura: dirección hidro-estática de ambos ejes.

**Cabina** Cabina para dos personas, en construcción de acero y fibra de vidrio. Cristales de seguridad, asiento con suspensión neumática, calefacción por agua caliente del motor. Elementos de control y manejo para circular por carretera. Regulador de velocidad.

**Sistema eléctrico** Sistema de 24 V c.c. con 2 baterías. El sistema eléctrico cumple la normativa CEE.

**Equipo adicional** (con suplemento de precio) Embrague de remolque, freno eléctrico, calefacción adicional con precalefacción del motor, climatización, neumáticos 445/95 R 25 (16.00 R 25), rueda de repuesto, pintura especial e rotulación.

Otros equipamientos sobre pedido.

**Superestructura** Construida en aceros soldados, resistente a la torsión. Corona de giro con rodamiento de una fila de bolas con dientes externos para giro continuo de 360°.

**Sistema hidráulico** Sistema hidráulico de 3 circuitos, 1 bomba doble de pistones axiales (regulable hidráulicamente) y una bomba de ruedas dentadas, enfriador de aceite. Las bombas están accionadas desde el motor del chasis. Operación de la grúa: 204 kW (277 HP) a 1500 min<sup>-1</sup>. (DIN 6270B).

**Mandos** 2 palancas de control de tipo joy-stick para movimientos simultáneos de la grúa (4 direcciones), asistidos hidráulicamente.

**Pluma telescópica** 5 secciones, un tramo base y 4 telescópicos de acero de alta resistencia soldado con 2 cilindros telescópicos sencillos y cables, los tramos se pueden telescopar hidráulicamente bajo carga. Longitud de 10,0 m a 40,0 m.

**Elevación de pluma** Mediante un cilindro hidráulico de doble efecto con válvula de retención integrada.

**Cabrestante principal** Motor hidráulico de pistones axiales y caudal fijo. Tambor del cabrestante con reducción planetaria y frenos de disco múltiples accionado, con sistema libre de elevación. Cable de elevación con sistema fácil de guiado 'Super-Stop'.

**Sistema de giro** Motor hidráulico de pistones axiales con reducción planetaria de dos etapas. Freno de servicio controlado por pedal y freno de estacionamiento. Velocidad de giro variable de 0 - 1,9 min<sup>-1</sup>.

**Contrapeso** El estándar 7 t divisible, accionado desde la cabina de la grúa.

**Cabina de la grúa** Cabina espaciosa y confortable, en construcción de acero y fibra de vidrio, con cristales tintados de seguridad. Asiento del operador regulable amortiguado hidráulicamente, inclinable junto con los instrumentos y mandos, calefacción por agua caliente independiente del motor. Elementos de control y mando para el manejo de la grúa y para el desplazamiento en obra. Mandos para nivelación y extensión de los estabilizadores.

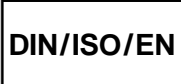


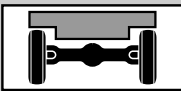






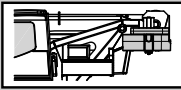
**Sistema eléctrico** Sistema de 24 V c.c. con 2 baterías.

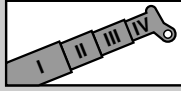
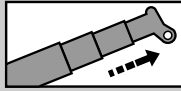
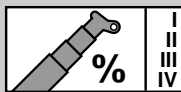
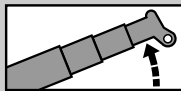

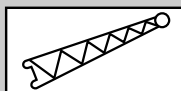
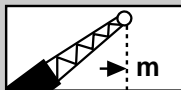


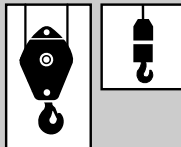
**Medidas de seguridad** Limitación del momento de carga (LMC), limitación del área de trabajo, interruptor de final de elevación, interruptor de 3 últimas vueltas en cabrestante, indicador de bajada o subida del cable del cabrestante, válvulas de seguridad para rotura de tubos y latiguillos. Válvulas de retención en los cilindros hidráulicos.

**Equipo adicional** (con suplemento de precio) Plumín de 9,0 m / 16,0 m, plumín de carga pesada de 1,6 m, contrapeso adicional de 3 t, variantes de contrapeso 4,9 t / 10 t, selección de ganchos, climatización, limitación del área de trabajo y limitador de giro, enfriador adicional, pintura especial e rotulación.

Otros equipamientos sobre pedido.

## Symbolerklärung Symbols Glossaire des symboles Glosario de simbolos

|   |  |
|---|--|
|                              | Siehe Seite 18<br>As on Page 18<br>Voyez la page 18<br>Véase la pagina 18                                  |
|                              | Abstützung<br>Outriggers<br>Calage<br>Estabilizadores  |
|                              | Getriebe / Gang<br>Transmission / Gear<br>Boîte de vitesse / Rapport<br>Transmisión / Marchas              |
|                             | Achslast<br>Axle load<br>Charge à l'essieu<br>Carga por eje  |
|  <b>385/95<br/>(14.00)</b> | Räder / Größe<br>Tyres / Size<br>Pneus / Largeur<br>Neumáticos / Tamaño de ruedas                          |
|                            | Geschwindigkeiten<br>Speeds<br>Vitesses<br>Velocidades   |
|                            | Steigfähigkeit<br>Gradeability<br>Abtitude en pente<br>Superacion de pendientes                            |
|                            | Drehwerk<br>Slewing system<br>Orientation<br>Sistema de giro   |
|                            | Gegengewicht<br>Counterweight<br>Contrepoids<br>Contrapeso   |
|                            | Nach hinten<br>Over rear<br>A l'arrière<br>Sobre la parte trasera  |
|                            | Gegengewichtvarianten<br>Counterweight versions<br>Variations des contrepoids<br>Variaciones de contrapeso |

|  |  |
|--|--|
|    | Teleskopausleger<br>Telescopic boom<br>Flèche télescopique<br>Pluma telescópica                          |
|    | Teleskopieren<br>Boom telescoping<br>Télescopage de flèche<br>Telescopaje de pluma                       |
|    | Teleskopieren in %<br>Boom telescoping in %<br>Télescopage de flèche en %<br>Telescopaje de pluma en %   |
|   | Wippwerk<br>Derricking system<br>Mécanisme de relevage<br>Elevación de pluma                             |
|  | Ausladung<br>Radius<br>Portée<br>Radio   |
|  | Auslegerverlängerung<br>Boom extension<br>Fléchette<br>Plumín  |
|  | Ausladung<br>Radius<br>Portée<br>Radio   |
|  | Hubwerk<br>Main winch<br>Mécanisme de levage<br>Cabrestante principal                                    |
|  | 2. Hubwerk<br>Auxiliary winch<br>2ème treuil de levage<br>2º cabrestante                                 |
|  | Unterflasche / Hakengeschrir<br>Hook block / Swivel hook<br>Moufle / Elingues<br>Gancho / Gancho de bola |



Notizen  
Notes  
Notas

