

# 81 K.1

EN 14439:2009 – C25  
Technical Data

**LIEBHERR**

**Tower Cranes**

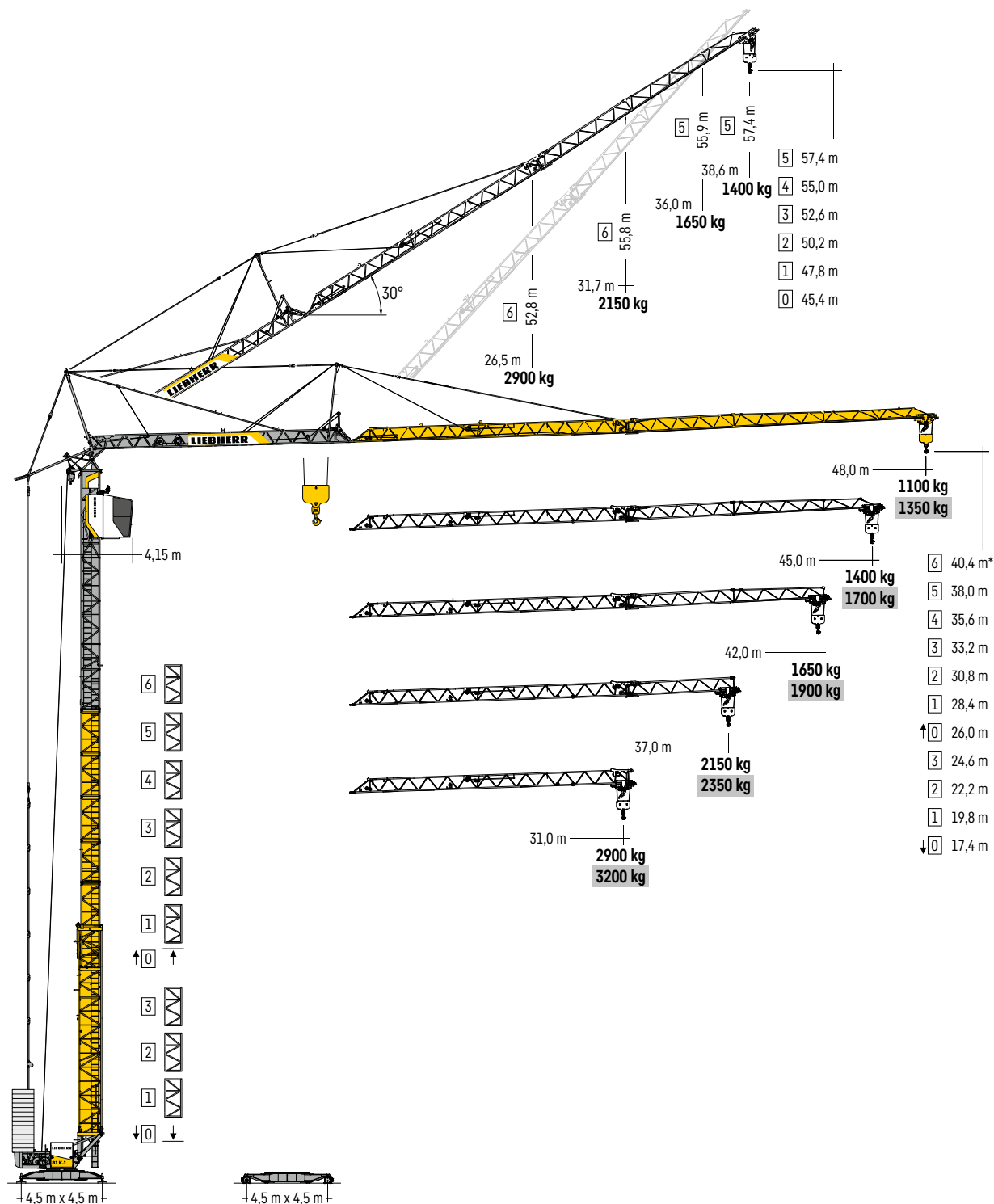
CE | UK  
CA

# **81 K.1**

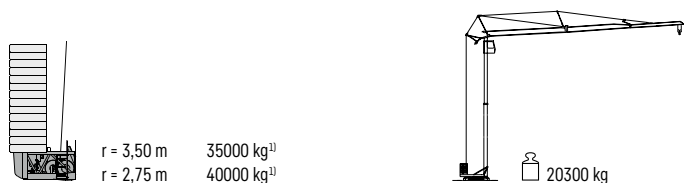
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| <b>Kranbetrieb und Transport</b> • Crane operation and transport<br>Exploitation de la grue et transport • Funzionamento della gru e trasporto<br>Accionamiento de grúa y transporte • Operação e transporte de guindastes<br>Эксплуатация крана и транспортировка ..... | <b>04</b> |
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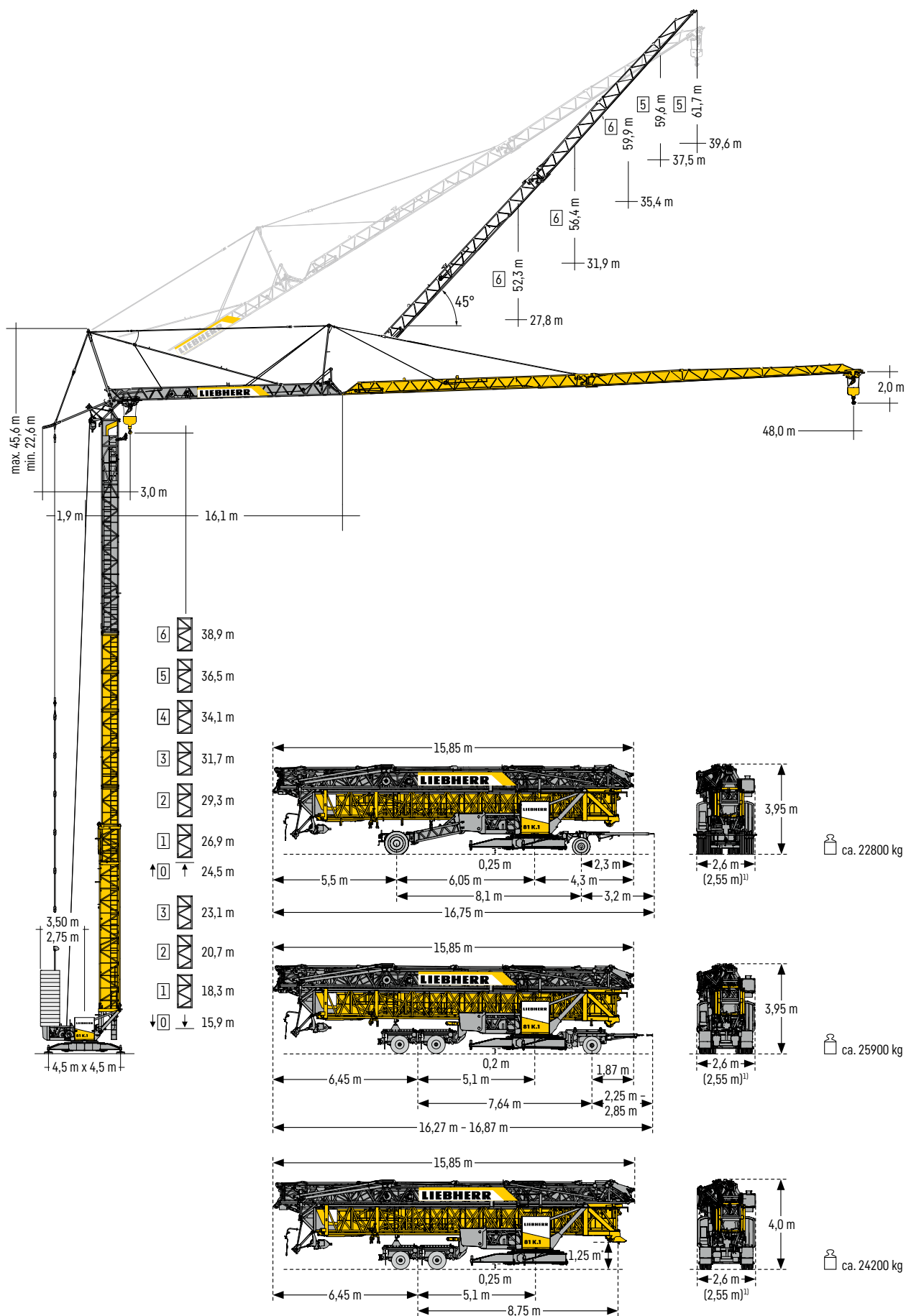
# Kranbetrieb und Transport • Crane operation and transport • Exploitation de la grue et transport • Funzionamento della gru e trasporto • Accionamiento de grúa y transporte • Operação e transporte de guindastes • Эксплуатация крана и транспортировка



## Gewichte • Weights • Poids • Pesì • Pesos • Pesos • Macca



<sup>1)</sup> Siehe Betriebsanleitung. • See instruction manual. • Voir manuel de service. • Vedi manuale d'istruzione. • Ver manual de instrucción. • Ver manual de instruções. • См. инструкцию по эксплуатации.



# Ausladung und Tragfähigkeit • Radius and capacity • Portée et charge • Sbraccio e portata Alcances y cargas • Alcance e capacidade de carga • Вылет и грузоподъемность

## Load-Plus

| m    | m          | kg   | m    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |            |      | 12,0 | 15,0 | 18,0 | 21,0 | 23,0 | 25,0 | 27,0 | 29,0 | 31,0 | 33,0 | 35,0 | 37,0 | 40,0 | 42,0 | 45,0 | 48,0 |
| 48,0 | 3,0 - 12,0 | 6000 | 6000 | 4830 | 4030 | 3440 | 3120 | 2860 | 2630 | 2430 | 2260 | 2110 | 1970 | 1850 | 1690 | 1590 | 1460 | 1350 |
| 45,0 | 3,0 - 13,3 | 6000 | 6000 | 5360 | 4500 | 3870 | 3530 | 3240 | 2990 | 2770 | 2580 | 2410 | 2260 | 2130 | 1950 | 1840 | 1700 |      |
| 42,0 | 3,0 - 14,1 | 6000 | 6000 | 5640 | 4710 | 4030 | 3670 | 3370 | 3100 | 2870 | 2670 | 2500 | 2340 | 2200 | 2010 | 1900 |      |      |
| 37,0 | 3,0 - 15,1 | 6000 |      | 6000 | 5040 | 4310 | 3930 | 3600 | 3320 | 3070 | 2860 | 2670 | 2500 | 2350 |      |      |      |      |
| 31,0 | 3,0 - 16,3 | 6000 |      | 6000 | 5470 | 4720 | 4320 | 3980 | 3690 | 3430 | 3200 |      |      |      |      |      |      |      |

→ kg

## LM 1

| m    | m          | kg   | m    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |            |      | 12,0 | 15,0 | 18,0 | 21,0 | 23,0 | 25,0 | 27,0 | 29,0 | 31,0 | 33,0 | 35,0 | 37,0 | 40,0 | 42,0 | 45,0 | 48,0 |
| 48,0 | 3,0 - 12,0 | 6000 | 6000 | 4620 | 3730 | 3110 | 2790 | 2530 | 2300 | 2110 | 1940 | 1800 | 1670 | 1550 | 1410 | 1320 | 1200 | 1100 |
| 45,0 | 3,0 - 13,3 | 6000 | 6000 | 5220 | 4230 | 3540 | 3180 | 2890 | 2640 | 2420 | 2230 | 2070 | 1920 | 1800 | 1630 | 1530 | 1400 |      |
| 42,0 | 3,0 - 14,1 | 6000 | 6000 | 5570 | 4520 | 3790 | 3410 | 3090 | 2820 | 2590 | 2400 | 2220 | 2070 | 1930 | 1750 | 1650 |      |      |
| 37,0 | 3,0 - 15,1 | 6000 |      | 6000 | 4930 | 4150 | 3740 | 3400 | 3110 | 2870 | 2650 | 2460 | 2300 | 2150 |      |      |      |      |
| 31,0 | 3,0 - 16,3 | 6000 |      | 6000 | 5370 | 4520 | 4080 | 3710 | 3400 | 3130 | 2900 |      |      |      |      |      |      |      |

→ kg

## Auslegerstellung 30° • Jib position 30° • Position de flèche 30° • Posizione del braccio 30° Posición de la pluma 30° • Posição da lança 30° • Положение стрелы 30°

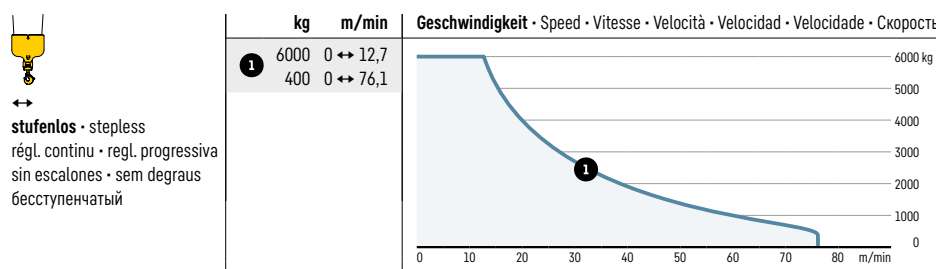
| m    | m          | kg   | m    |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |            |      | 12,0 | 14,0 | 16,0 | 18,0 | 20,0 | 22,0 | 25,0 | 26,5 | 28,0 | 30,0 | 31,7 | 33,0 | 35,0 | 36,0 | 37,0 | 38,6 |
| 45,0 | 3,0 - 15,8 | 3000 | 3000 |      | 2970 | 2730 | 2520 | 2340 | 2100 | 2000 | 1900 | 1790 | 1700 | 1640 | 1550 | 1500 | 1460 | 1400 |
| 42,0 | 3,0 - 17,7 | 3000 |      | 3000 |      | 2960 | 2740 | 2540 | 2290 | 2180 | 2080 | 1960 | 1860 | 1790 | 1700 | 1650 |      |      |
| 37,0 | 3,0 - 21,2 | 3000 |      |      | 3000 |      |      | 2910 | 2630 | 2510 | 2400 | 2260 | 2150 |      |      |      |      |      |
| 31,0 | 3,0 - 25,3 | 3000 |      |      |      | 3000 |      |      |      | 2900 |      |      |      |      |      |      |      |      |

→ kg

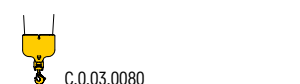
Load-Plus = Abweichende Geschwindigkeiten und Betriebsbedingungen. • Variant speeds and service conditions. • Vitesses et conditions de fonctionnement différentes.  
Differenti velocità e condizioni di funzionamento. • Otras velocidades y características de funcionamiento. • Outras velocidades e características de funcionamento.  
Нестандартные скорости и условия эксплуатации.

## Antriebe • Driving units • Mécanismes d'entraînement • Meccanismi Mecanismos • Mecanismos • Приводы

### 15 kW FU

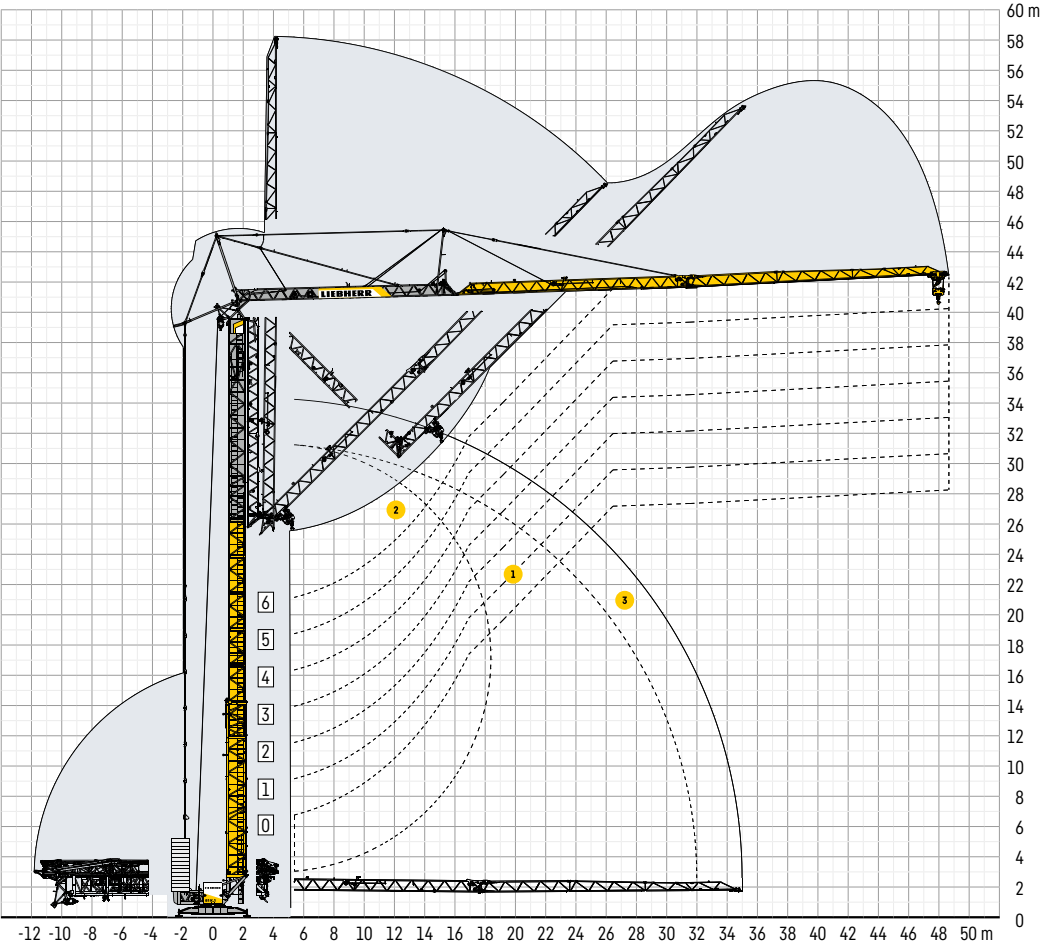


### BGL



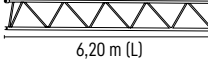
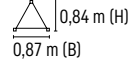
|                                                    |                               |                                   |                                    |                 |                |                   |
|----------------------------------------------------|-------------------------------|-----------------------------------|------------------------------------|-----------------|----------------|-------------------|
| <br>0 ↔ 0,8 U/min • sL./min • tr./min<br>5,0 kW FU | <br>0 ↔ 60 m/min<br>3,0 kW FU | <br>0 ↔ 25 m/min<br>2 x 2,2 kW FU | <br>0 - 45°, 110 sec.<br>3,0 kW FU | <br>380 - 480 V | <br>50 - 60 Hz | <br>22,0 kVA (FU) |
|----------------------------------------------------|-------------------------------|-----------------------------------|------------------------------------|-----------------|----------------|-------------------|

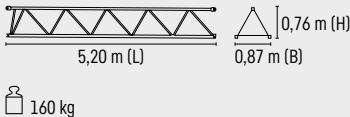
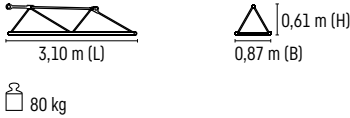
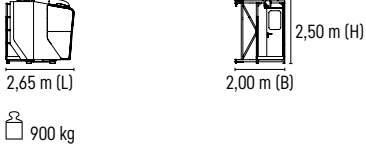
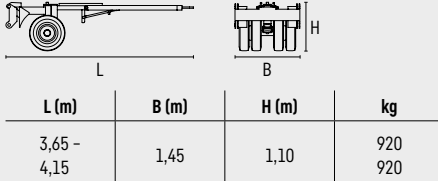
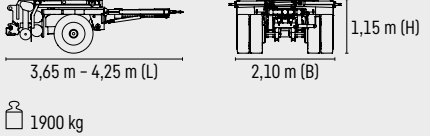
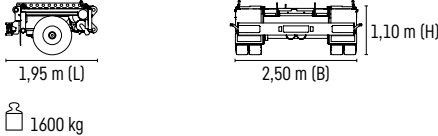
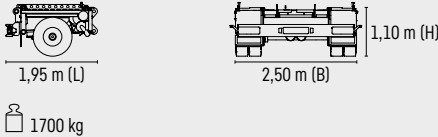
**Aufstellvorgang** • Erection procedure • Déroulement de montage • Procedimento di montaggio  
Procedimiento de montaje • Sistema de montagem • Процесс развертывания



- 1 **Standard Aufstellkurven von 0 bis 6 Turmstücken (45 m)** • Standard erecting curves from 0 to 6 tower sections (45 m) • Courbes de montage standard de 0 à 6 éléments de mât (45 m) • Curve di montaggio standard con 0 fino a 6 elementi torre (45 m) • Curvas de montaje estándar (0 – 6 tramos de torre) (45 m) • Curvas padrão de montagem de 0 até 6 segmentos de torre (45 m) • Стандартная монтажная высота с 0 – 6 башенными секциями (45 м)
- 2 **Erhöhte Aufstellkurve (+4,5 m) am Beispiel von 6 Turmstücken (45 m)** • Elevated erecting curve (+4.5 m) using the example of 6 tower sections (45 m) • Courbe de montage élevée (+4,5 m) en prenant pour exemple 6 éléments de mât (45 m) • Elevata curva di montaggio (+4,5 m), come per esempio con 6 elementi di torre (45 m) • Curva de montaje elevada (+4,5 m): ejemplo con 6 tramos (45 m) • Curva elevada de montagem (+4,5 m) como exemplo para 6 segmentos de torre (45 m) • Увеличенная монтажная высота (+4,5 м) на примере 6-ти башенных секций (45 м)
- 3 **Aufstellkurve 48 m Ausladung** • Erecting curve 48 m radius • Courbe de montage 48 m portée • Curva di montaggio 48 m sbraccio • Curva de montaje 48 m alcances • Curva de montagem 48 m alcance • Увеличенная монтажная 48 м Вылет

**Kolli-Liste** • Packing List • Liste de colisage • Lista dei colli • Lista de contenido  
Lista de embalagem • Упаковочный лист

| P <sub>1</sub> | A <sub>1</sub> | Beschreibung • Description • Description • Descrizione • Descripción • Descrição • Описание                                                                                                                                                                                                                                             |                                                                                       |  |                                                                                       |       |      |
|----------------|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------|-------|------|
| 1              | 4              | <b>Turmstück (ohne/mit Turmauflage)</b> • Tower section (without/<br>with tower support*) • Élément de mât (sans/avec support de mât*)<br>Elemento di torre (senza/con pedana di servizio*) • Tramo de torre (sin/<br>con soporte de torre*) • ramo de torre (sem/com suporte de torre*)<br>Башенная секция (без/с опорными выступами*) |  |  |  |       |      |
| 2              | 2*             |                                                                                                                                                                                                                                                                                                                                         | L (m)                                                                                 |  | B (m)                                                                                 | H (m) | kg   |
|                |                |                                                                                                                                                                                                                                                                                                                                         | 2,50                                                                                  |  | 1,10                                                                                  | 1,10  | 500  |
|                |                |                                                                                                                                                                                                                                                                                                                                         | 2,50                                                                                  |  | 1,10                                                                                  | 1,10  | 600* |
| 3              | 1              | <b>Ausleger-Verlängerung 31,0 m – 37,0 m</b> • Jib extension<br>Rallonge de la flèche • Elemento estensione braccio<br>Prolongación de pluma • Extensão da lança • Удлинение стрелы                                                                                                                                                     |  |  |  |       |      |
|                |                |                                                                                                                                                                                                                                                                                                                                         | 6,20 m (L)                                                                            |  | 0,84 m (H)<br>0,87 m (B)                                                              |       |      |
|                |                |                                                                                                                                                                                                                                                                                                                                         |  |  | 320 kg                                                                                |       |      |

| P <sub>1</sub> | A <sub>1</sub> | Beschreibung • Description • Description • Descrizione • Descripción • Descrição • Описание                                                                                                                                                                                                                                                                      |                                                                                      |  |  |
|----------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--|--|
| 4              | 1              | <b>Ausleger-Verlängerung 37,0 m – 42,0 m</b> • Jib extension<br>Rallonge de la flèche • Elemento estensione braccio<br>Prolongación de pluma • Extensão da lança • Удлинение стрелы                                                                                                                                                                              |    |  |  |
| 5              | 1              | <b>Ausleger-Verlängerung 42,0 m – 45,0 m</b> • Jib extension<br>Rallonge de la flèche • Elemento estensione braccio<br>Prolongación de pluma • Extensão da lança • Удлинение стрелы                                                                                                                                                                              |    |  |  |
| 6              | 1              | <b>Ausleger-Verlängerung 45,0 m – 48,0 m</b> • Jib extension<br>Rallonge de la flèche • Elemento estensione braccio<br>Prolongación de pluma • Extensão da lança • Удлинение стрелы                                                                                                                                                                              |    |  |  |
| 7              | 1              | <b>Kabine</b> • Cabin • Cabine • Cabina • Cabina • Cabina • Кабина                                                                                                                                                                                                                                                                                               |    |  |  |
| 8              | 1              | <b>Transportachse vorne</b> • Road transport axle front<br>Essieux de transport avant • Asse di trasporto anteriore<br>Eje delantero para transporte • Eixo de transporte dianteiro<br>Транспортировочная ось, передняя                                                                                                                                          |    |  |  |
| 9              | 1              | <b>Transportachse hinten</b> • Road transport axle behind<br>Essieux de transport arrière • Asse di trasporto posteriore<br>Eje trasero para transporte • Eixo de transporte traseiro<br>Транспортировочная ось, задняя                                                                                                                                          |   |  |  |
| 10             | 1              | <b>Transportachse vorne LiTRAX HS-121</b> • Road transport axle front<br>Essieux de transport avant • Asse di trasporto anteriore<br>Eje delantero para transporte • Eixo de transporte dianteiro<br>Транспортировочная ось, передняя                                                                                                                            |  |  |  |
| 11             | 1              | <b>Transportachse hinten LiTRAX HS-122 (ohne Lenkung)</b> • Road transport axle behind (without steering) • Essieux de transport arrière (sans direction)<br>Asse di trasporto posteriore (senza sterzo) • Eje trasero para transporte (sin sistema de dirección) • Eixo de transporte traseiro (sem esterço)<br>Транспортировочная ось, задняя (без управления) |  |  |  |
| 12             | 1              | <b>Transportachse hinten LiTRAX HS-123 (mit Lenkung)</b> • Road transport axle behind (with steering) • Essieux de transport arrière (avec direction)<br>Asse di trasporto posteriore (con sterzo) • Eje trasero para transporte (con sistema de dirección) • Eixo de transporte traseiro (com esterço)<br>Транспортировочная ось, задняя (с управлением)        |  |  |  |

P<sub>1</sub> = Position • Item • Position • Posizione • Posición • Posição • Положение A<sub>1</sub> = Anzahl • Quantity • Nombre • Numero • Cantidad • Número • Количество

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