

91 K

EN 14439:2009 – C25
Technical Data

LIEBHERR

Tower Cranes



Liebherr Connect Features



Sway Control

Lastpendelassistent • Load sway control assistant • Rattrapage du ballant • Controllo oscillazione • Asistente antibalanceo
Assistente de oscilação de cargas • Система противодействует раскачиванию груза



Sway Control Plus

Lastpendelassistent • Load sway control assistant • Rattrapage du ballant • Controllo oscillazione • Asistente antibalanceo • Assistente de oscilação de cargas
Система противодействует раскачиванию груза. Отличается от Sway Control большим числом датчиков.



Vertical Line Finder

Schrägzugregelung • Side pull prevention assistant • Système de maintien du crochet à la verticale • Regolazione della trazione obliqua
Control de tracción transversal • Controle de levantamento em diagonal • Предотвращение диагонального натяжения каната.
Система автоматически устанавливает грузовой крюк точно над грузом.



Guided Hook

Geführter Haken • Guided load hook positioning assistant • Guidage du crochet • Gancio guidato • Gancho guiado • Gancho guiado
Система облегчает ручное позиционирование грузового крюка



Positioning Pilot

Positions- und Routenassistent • Positioning and route assistant • Assistant de position et de trajectoire • Assistente di posizione e di percorso
Asistente de posicionamiento y ruta • Assistente de posição e rota • Система автоматизирует движения крана по направлению к заданным точкам
и по заданной траектории



Micromove

Feinpositioniermodus • Fine positioning mode • Mode de positionnement de précision • Modalità di posizionamento preciso
Modo de posicionamiento preciso • Modo de posicionamento fino • Система обеспечивает точное позиционирование грузов без рывков



Load-Plus

Traglasterhöhung für einzelne Hübe • Lifting capacity increase for individual lifts • Augmentation de la capacité de charge pour des levages individuels
Aumento della portata per singoli sollevamenti • Aumento de la capacidad de carga en elevaciones individuales • Aumento da capacidade de carga
para movimentos individuais • Увеличение грузоподъемности



Load-Reduction

Drosselung der Traglastkurve • Restriction of lifting capacity chart • Réduction de la courbe de charge • Limitazione della curva di portata
Regulación de la curva de capacidad de carga • Limitação da curva de capacidade de carga • Уменьшение грузоподъемности



Speed2Lift

Reiner 2-Strangbetrieb mit maximaler Hubgeschwindigkeit • Pure 2-fall operation with maximum hoist speed • Mode 2 brins intégral avec vitesse
de levage maximale • Operazione a due funi pura con velocità di sollevamento massima • Servicio puramente de 2 ramales con velocidad de elevación máxima
Operação pura com 2 cabos com velocidade máxima de elevação • 2-кратная запасовка для быстрого перемещения грузов



ABB

Ausgrenzen von Arbeitsbereichen • Demarcation of working areas • Exclusion de zones de travail • Esclusione dei campi di lavoro • Exclusión de áreas de trabajo
Exclusão de áreas de trabalho • Система ограничивает рабочую зону крана и исключает опасные участки

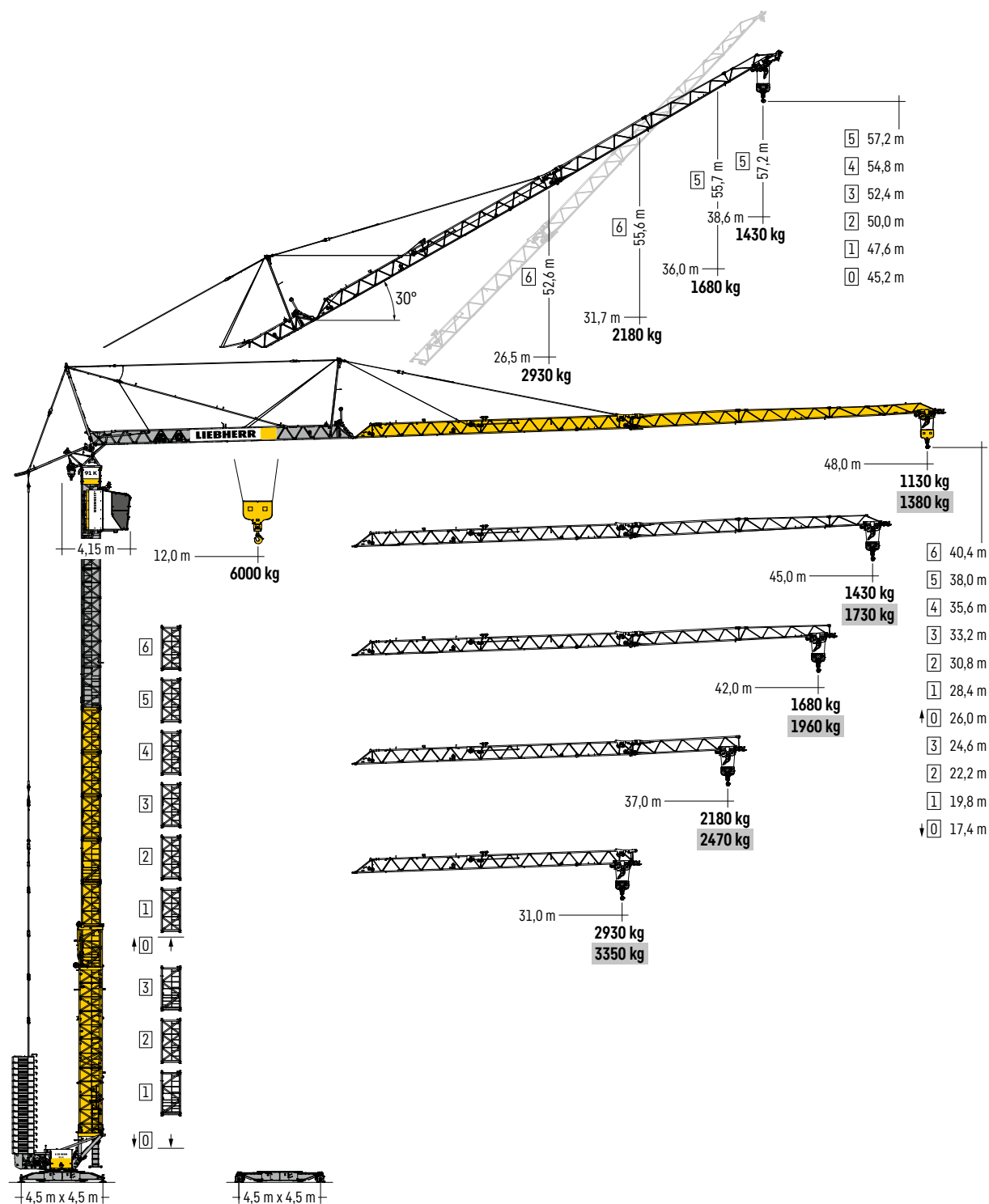


ACS

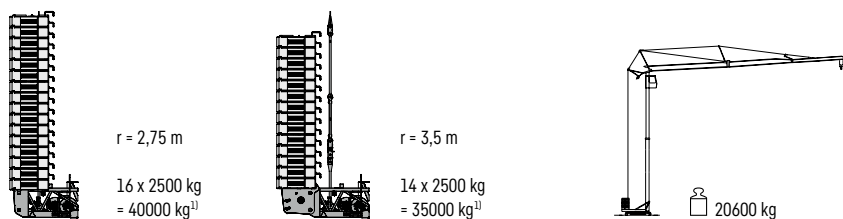
Anbindung eines externen Anti-Kollisionssystems • Connection of an external anti-collision system • Connexion d'un système anti-collision externe
Collegamento di un sistema anti-collisione esterno • Conexión de un sistema externo anticollision • Acesso a um sistema anticollisão externo
Подключение внешней системы защиты от столкновений

| | |
|--|-----------|
| 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 | 04 |
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Gewichte • Weights • Poids • Pesi • Pesos • Pesos • Macca



¹⁾ 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 |  | kg | m | | | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 12,0 | 14,0 | 16,0 | 18,0 | 20,0 | 22,0 | 24,0 | 26,0 | 28,0 | 31,0 | 34,0 | 37,0 | 40,0 | 42,0 | 45,0 | 48,0 |
| 48,0 | 3,0 - 12,0 | 6000 | 6000 | 5180 | 4550 | 4050 | 3640 | 3300 | 3010 | 2770 | 2550 | 2290 | 2060 | 1870 | 1710 | 1620 | 1490 | 1380 |
| 45,0 | 3,0 - 13,3 | 6000 | 6000 | 5730 | 5060 | 4520 | 4080 | 3710 | 3400 | 3140 | 2900 | 2610 | 2360 | 2150 | 1980 | 1870 | 1730 | |
| 42,0 | 3,0 - 14,1 | 6000 | 6000 | | 5320 | 4750 | 4280 | 3900 | 3570 | 3290 | 3040 | 2730 | 2470 | 2260 | 2070 | 1960 | | |
| 37,0 | 3,0 - 15,1 | 6000 | 6000 | | 5690 | 5100 | 4610 | 4200 | 3860 | 3560 | 3300 | 2980 | 2700 | 2470 | | | | |
| 31,0 | 3,0 - 16,3 | 6000 | 6000 | | | 5510 | 5030 | 4620 | 4270 | 3960 | 3690 | 3350 | | | | | | |

→ kg


LM 1

| m |  | kg | m | | | | | | | | | | | | | | | |
|------|---|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | 12,0 | 14,0 | 16,0 | 18,0 | 20,0 | 22,0 | 24,0 | 26,0 | 28,0 | 31,0 | 34,0 | 37,0 | 40,0 | 42,0 | 45,0 | 48,0 |
| 48,0 | 3,0 - 12,0 | 6000 | 6000 | 5020 | 4300 | 3750 | 3320 | 2970 | 2680 | 2440 | 2230 | 1970 | 1760 | 1580 | 1430 | 1340 | 1230 | 1130 |
| 45,0 | 3,0 - 13,3 | 6000 | 6000 | 5660 | 4860 | 4250 | 3770 | 3380 | 3050 | 2780 | 2550 | 2260 | 2020 | 1820 | 1660 | 1560 | 1430 | |
| 42,0 | 3,0 - 14,1 | 6000 | 6000 | | 5190 | 4540 | 4030 | 3610 | 3270 | 2980 | 2730 | 2420 | 2170 | 1960 | 1780 | 1680 | | |
| 37,0 | 3,0 - 15,1 | 6000 | 6000 | | 5630 | 4940 | 4400 | 3950 | 3580 | 3270 | 3010 | 2680 | 2400 | 2180 | | | | |
| 31,0 | 3,0 - 16,3 | 6000 | 6000 | | | 5370 | 4790 | 4310 | 3910 | 3570 | 3290 | 2930 | | | | | | |

→ 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 | 24,0 | 26,0 | 26,5 | 28,0 | 30,0 | 31,7 | 32,0 | 34,0 | 36,0 | 38,0 | 38,6 |
| 45,0 | 3,0 - 15,8 | 3000 | 3000 | | 2970 | 2740 | 2530 | 2350 | 2190 | 2050 | 2020 | 1930 | 1810 | 1720 | 1710 | 1610 | 1530 | 1450 | 1430 |
| 42,0 | 3,0 - 17,7 | 3000 | 3000 | | | 2970 | 2750 | 2560 | 2390 | 2240 | 2200 | 2100 | 1980 | 1890 | 1870 | 1770 | 1680 | | |
| 37,0 | 3,0 - 21,2 | 3000 | 3000 | | | | | 2920 | 2730 | 2570 | 2530 | 2420 | 2280 | 2180 | | | | | |
| 31,0 | 3,0 - 25,3 | 3000 | 3000 | | | | | | | 2960 | 2930 | | | | | | | | |
| | | | → kg | | | | | | | | | | | | | | | | |

→ kg

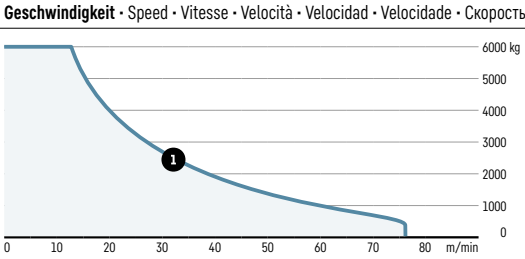
Load-Plus = Abweichende Geschwindigkeiten und Betriebsbedingungen. • Variant speeds and service conditions. • Vitesses et conditions de fonctionnement différentes.
Differenti velocità e condizioni di funzionamento. • Otras velocidades y características de funcionamiento. • Outras velocidades e características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

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

 **15 kW FU**






↔
stufenlos • stepless
régl. continu • regl. progressiva
sin escalones • sem degraus
бесступенчатый

| | kg | m/min |
|---|------|----------|
| 1 | 6000 | 0 ↔ 12,7 |
| | 400 | 0 ↔ 76,1 |

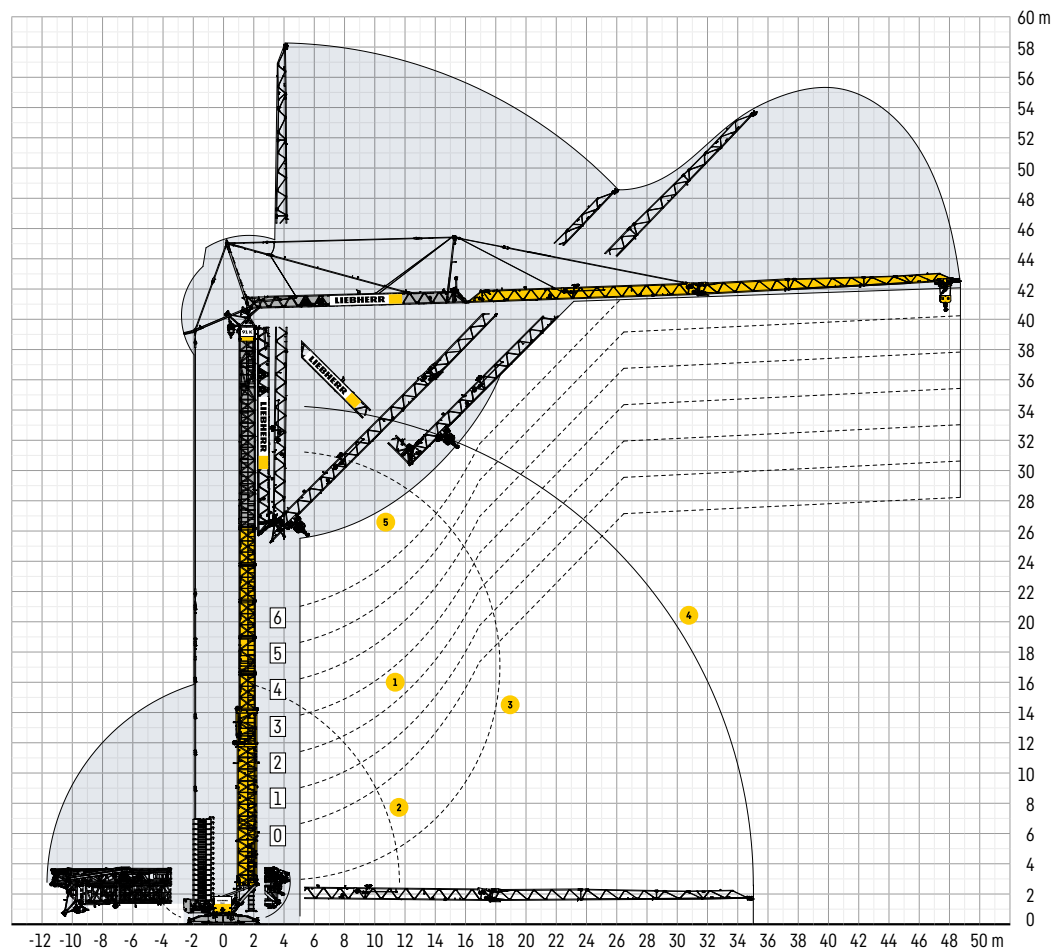


BGL


C.0.03.0090

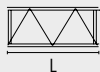

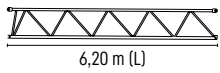
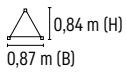
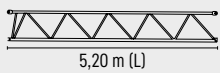
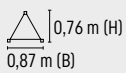
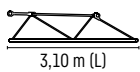
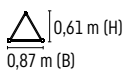
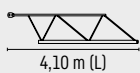
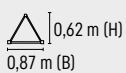

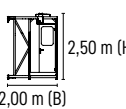
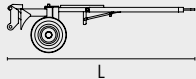


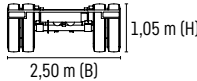
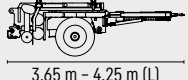
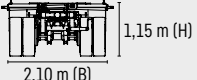
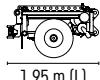
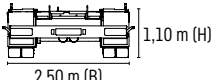
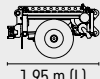
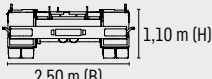
| | | | | | |
|---|---|--|---|------------|---------------|
|  |  |  |  | | |
| 0 ↔ 0,8 U/min • sl./min • tr./min 5,0 kW FU | 0 ↔ 60 m/min 3,0 kW FU | 0 ↔ 24 m/min 2 x 2,6 kW FU | 400 – 440 V | 50 – 60 Hz | 22,0 kVA (FU) |

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

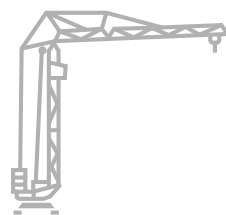


- 1 **Standard Aufstellkurven von 0 bis 6 Turmstücken (48 m)** • Standard erecting curves from 0 to 6 tower sections (48 m) • Courbes de montage standard de 0 à 6 éléments de mât (48 m) • Curve di montaggio standard con 0 fino a 6 elementi torre (48 m) • Curvas de montaje estándar (0 – 6 tramos de torre) (48 m) • Curvas padrão de montagem de 0 até 6 segmentos de torre (48 m) • Стандартная монтажная высота с 0 – 6 башенными секциями (48 м)
- 2 **Turm im Transportzustand um 180° gedreht** • The tower is rotated 180° in the transport position • Mât pivoté à 180° en position de transport • Torre ruotata di 180° in posizione di trasporto • Torre preparada para transporte, girada 180° • Torre virada a 180° no estado de transporte • Башня крана в транспортировочном положении повернута на 180°
- 3 **Auslegerspitze hochziehen (45 m)** • Pull up the jib head (45 m) • Relever le bout de flèche (45 m) • Sollevare la punta braccio (45 m) • Elevar la punta de la pluma (45 m) • Elevar a ponta da lança (45 m) • Поднять оголовок стрелы (45 м)
- 4 **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
- 5 **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)

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

| P ₁ | A ₁ | Beschreibung • Description • Description • Descrizione • Descripción • Descrição • Описание | | | | |
|----------------|----------------|---|---|---|-------|---------|
| 1 | 4 | Turmstück (ohne/mit Turmauflage) • Tower section (without/with tower support) • Élément de mât (sans/avec support de mât) Elemento di torre (senza/con pedana di servizio) • Tramo de torre (sin/con soporte de torre) • ramo de torre (sem/com suporte de torre) Башенная секция (без/с опорными выступами) |  |  | | |
| | 2* | | L (m) | B (m) | H (m) | kg |
| | | | 2,50 | 1,10 | 1,10 | 500 |
| | | | 2,50 | 1,10 | 1,10 | 600* |
| 3 | 1 | Ausleger-Verlängerung 31,0 m – 37,0 m • Jib extension Rallonge de la flèche • Elemento estensione braccio Prolongación de pluma • Extensão da lança • Удлинение стрелы |  |  | | |
| | | | | | | 320 kg |
| 4 | 1 | Ausleger-Verlängerung 37,0 m – 42,0 m • Jib extension Rallonge de la flèche • Elemento estensione braccio Prolongación de pluma • Extensão da lança • Удлинение стрелы |  |  | | |
| | | | | | | 160 kg |
| 5 | 1 | Ausleger-Verlängerung 42,0 m – 45,0 m • Jib extension Rallonge de la flèche • Elemento estensione braccio Prolongación de pluma • Extensão da lança • Удлинение стрелы |  |  | | |
| | | | | | | 80 kg |
| 6 | 1 | Ausleger-Verlängerung 45,0 m – 48,0 m • Jib extension Rallonge de la flèche • Elemento estensione braccio Prolongación de pluma • Extensão da lança • Удлинение стрелы |  |  | | |
| | | | | | | 90 kg |
| 7 | 1 | Kabine • Cabin • Cabine • Cabina • Cabina • Кабина |  |  | | |
| | | | | | | 900 kg |
| 8 | 1 | Transportachse vorne • Road transport axle front Essieux de transport avant • Asse di trasporto anteriore Eje delantero para transporte • Eixo de transporte dianteiro Транспортировочная ось, передняя |  |  | | |
| | | | L (m) | B (m) | H (m) | kg |
| | | Tra 100 KY 6 | 3,65 – | 1,45 | 1,10 | 920 |
| | | Tra 100 KY 6 A | 4,15 | | | 920 |
| 9 | 1 | Transportachse hinten • Road transport axle behind Essieux de transport arrière • Asse di trasporto posteriore Eje trasero para transporte • Eixo de transporte traseiro Транспортировочная ось, задняя |  |  | | |
| | | Tra 120 GY 1 A | | | | 1100 kg |
| | | Tra 120 GY 1 | | | | |
| 10 | 1 | Transportachse vorne LiTRAX HS-121 • Road transport axle front Essieux de transport avant • Asse di trasporto anteriore Eje delantero para transporte • Eixo de transporte dianteiro Транспортировочная ось, передняя |  |  | | |
| | | | | | | 1900 kg |
| 11 | 1 | Transportachse hinten LiTRAX HS-122 (ohne Lenkung) • Road transport axle behind (without steering) Essieux de transport arrière (sans direction) Asse di trasporto posteriore (senza sterzo) • Eje trasero para transporte (sin sistema de dirección) • Eixo de transporte traseiro (sem esterço) Транспортировочная ось, задняя (без управления) |  |  | | |
| | | | | | | 1600 kg |
| 12 | 1 | Transportachse hinten LiTRAX HS-123 (mit Lenkung) • Road transport axle behind (with steering) Essieux de transport arrière (avec direction) Asse di trasporto posteriore (con sterzo) • Eje trasero para transporte (con sistema de dirección) • Eixo de transporte traseiro (com esterço) Транспортировочная ось, задняя (с управлением) |  |  | | |
| | | | | | | 1700 kg |

P₁ = Position • Item • Position • Posizione • Posición • Posição • Положение A₁ = Anzahl • Quantity • Nombre • Numero • Cantidad • Número • Количество



Sämtliche Angaben erfolgen ohne Gewähr.

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Änderungen vorbehalten!

Subject to technical modifications!

Sous réserves de modifications !

Con riserva di modifiche!

¡Sujeto a modificaciones sin previo aviso!

Sujeto a modificações!

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