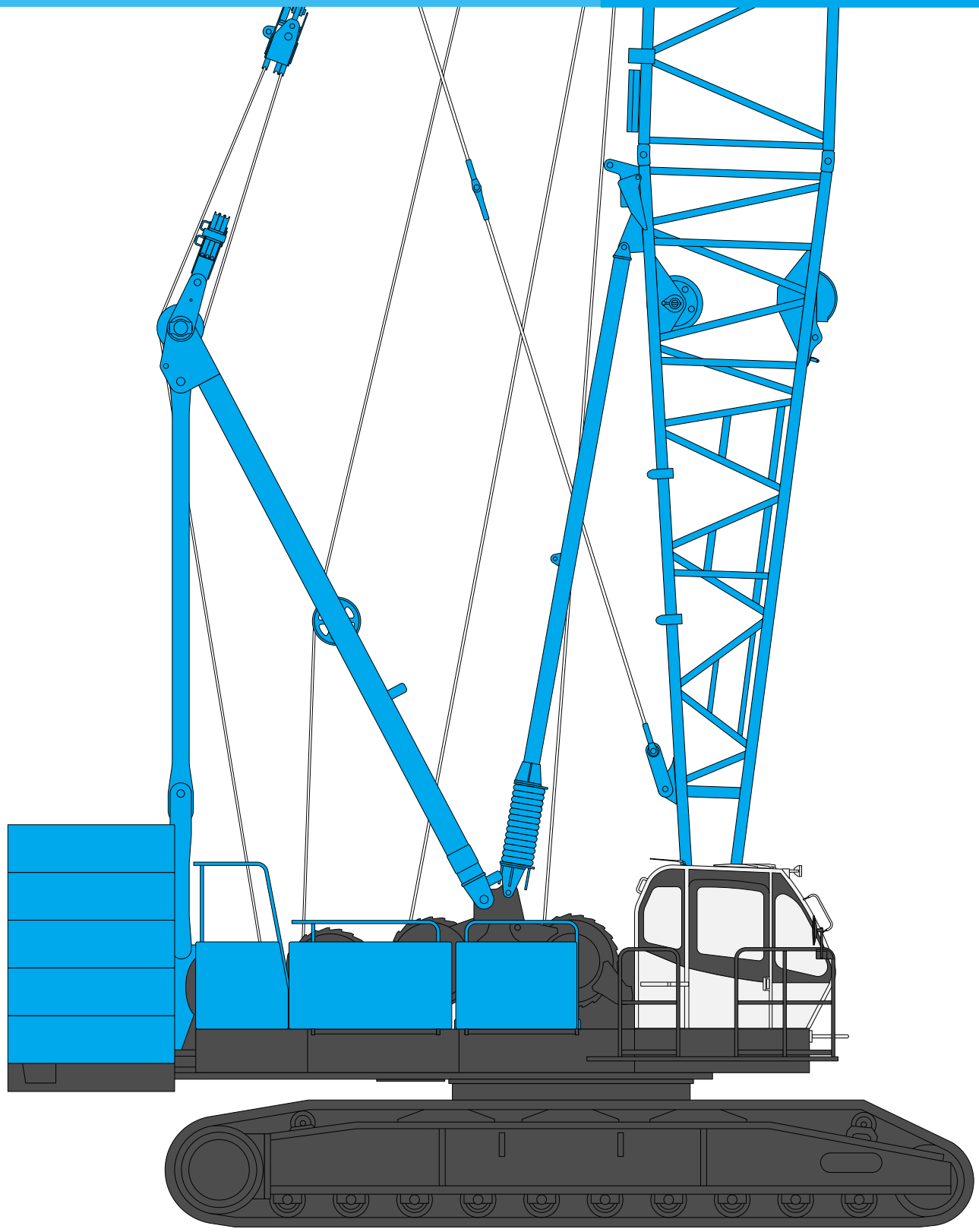
KOBELCO

# HYDRAULIC CRAWLER CRANE

# CKE1800

Model: CKE1800-1F



**Max. Lifting Capacity: 180 metric ton x 3.75 m**
**Max. Crane Boom Length: 85.3 m**
**Max. Long Boom Length: 85.3 m**
**Max. Fixed Jib Combination: 73.2 m + 30.5 m**
**Max. Luffing Jib Combination: 54.9 m +51.8 m**

# CONFIGURATION

## Crane Boom

Max. Lifting Capacity:
160 metric ton x 4.4 m
Max. Boom Length:
85.3 m

## Heavy Duty Crane Boom

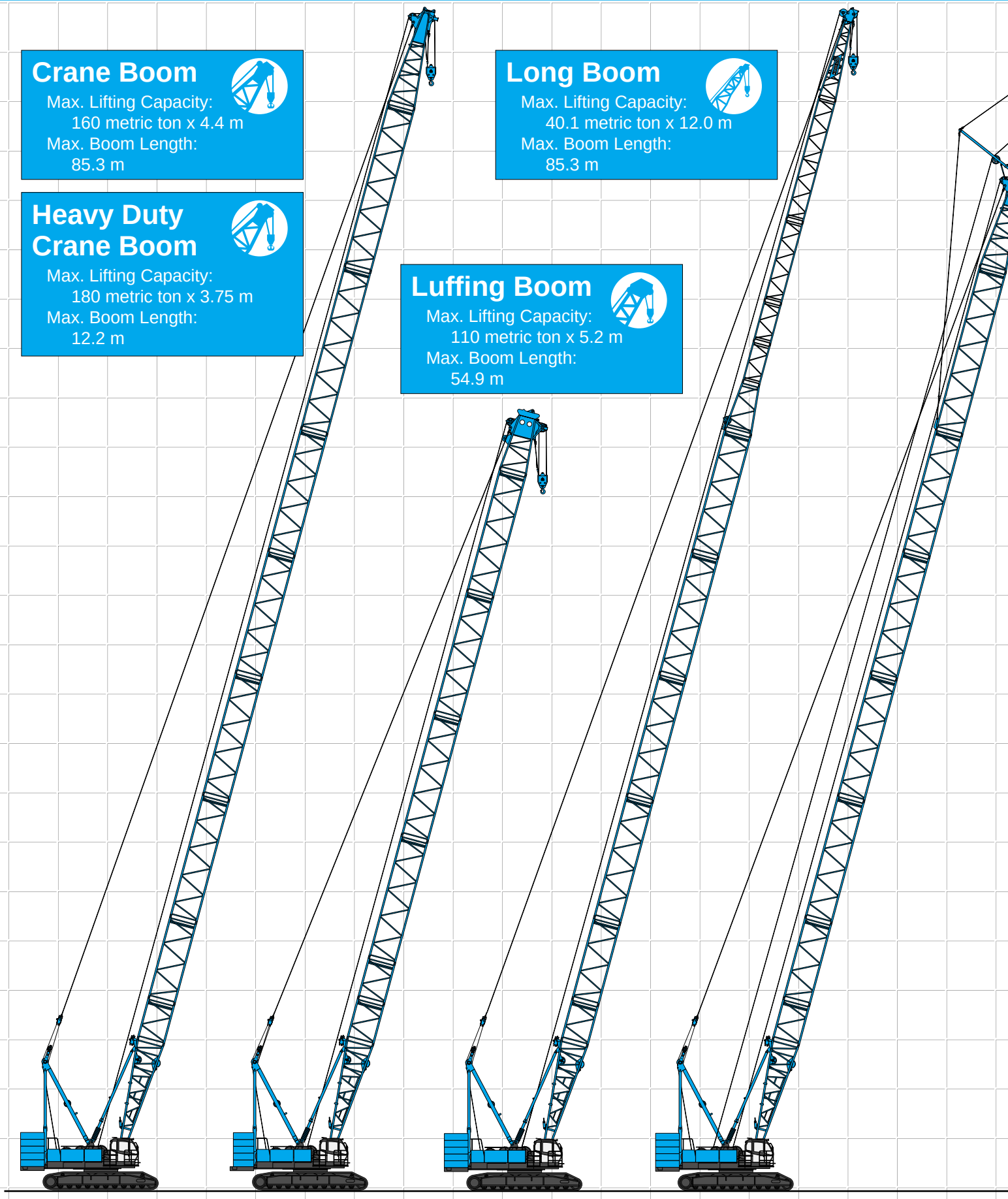
Max. Lifting Capacity:
180 metric ton x 3.75 m
Max. Boom Length:
12.2 m

## Luffing Boom

Max. Lifting Capacity:
110 metric ton x 5.2 m
Max. Boom Length:
54.9 m

## Long Boom

Max. Lifting Capacity:
40.1 metric ton x 12.0 m
Max. Boom Length:
85.3 m



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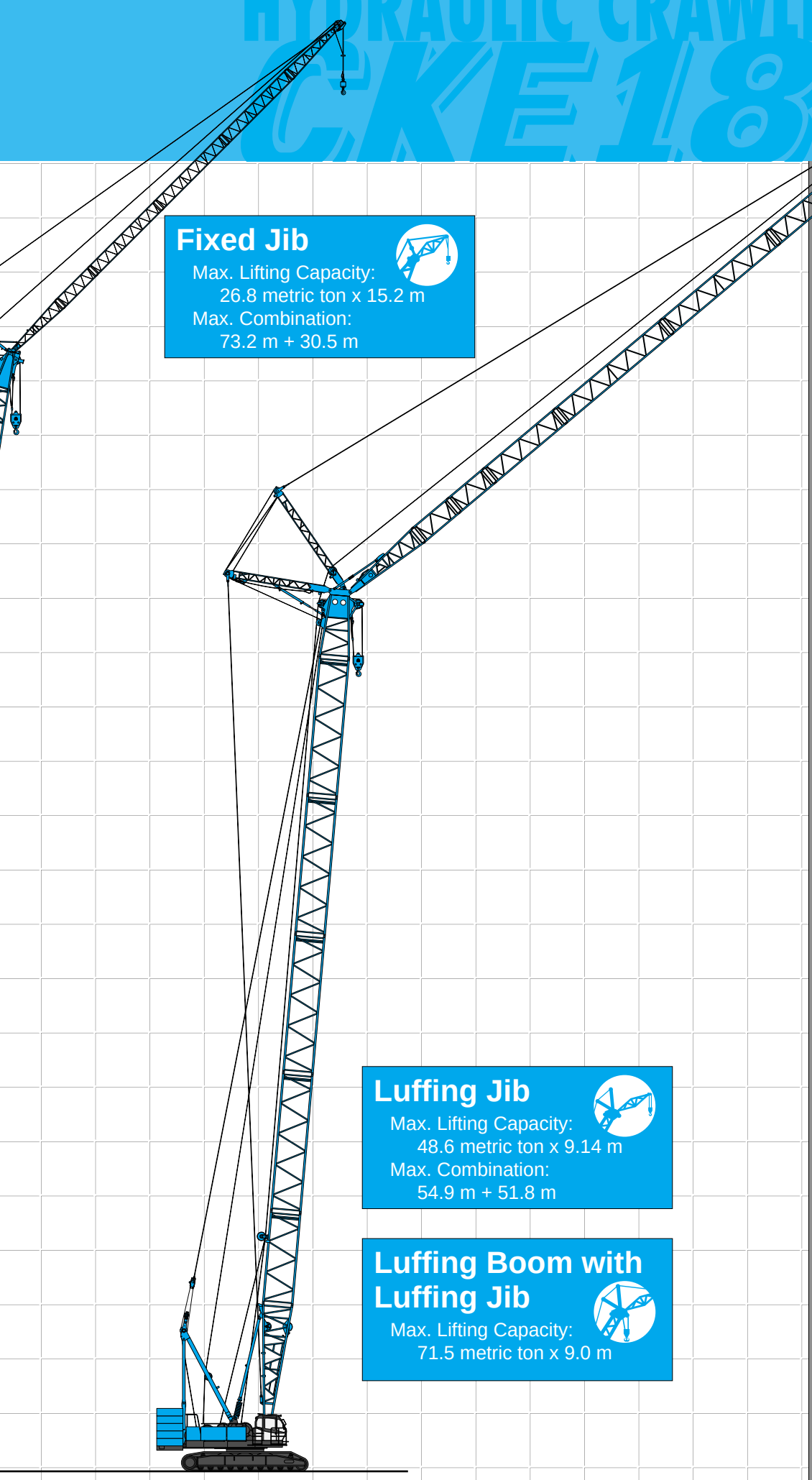
# CKE1800



## Fixed Jib
Max. Lifting Capacity:
26.8 metric ton x 15.2 m
Max. Combination:
73.2 m + 30.5 m

## Luffing Jib
Max. Lifting Capacity:
48.6 metric ton x 9.14 m
Max. Combination:
54.9 m + 51.8 m

## Luffing Boom with Luffing Jib
Max. Lifting Capacity:
71.5 metric ton x 9.0 m

## CONTENTS

# SPECIFICATIONS

## Power Plant

**Model:** Hino diesel engine P11C-UN
**Type:** Water-cooled, direct fuel injection, with turbocharger
Complies with NRMM (Europe) Tier III and USA EPA Tier III
**Displacement:** 10.520 liters
**Rated Power:** 247 kW/ 2,000 $min^{-1}$ {rpm} (ISO)
**Max. torque:** 1,300 N·m/1,500 $min^{-1}$
**Cooling system:** Liquid, re-circulating bypass
**Starter:** 24V / 6.0 kW
**Radiator:** Corrugated type core, thermostatically controlled
**Air cleaner:** Dry type with replaceable paper element
**Throttle:** Electric throttle control, twist grip type
**Fuel filter:** Replaceable paper element.
**Batteries:** Two 12 V, 170 Ah/20 HR capacity batteries, series connected.
**Fuel tank capacity:** 400 liters

## Hydraulic System

Four variable displacement piston pumps are driven by heavy-duty pump drive. Two of variable displacement pumps are used in the main hook hoist circuit, auxiliary hook hoist circuit, third hoist circuit and each propel circuit. One of the other two pumps is used in the boom hoist circuit, and the other is used in the swing circuit.
**Control:** Full-flow hydraulic control system for infinitely variable pressure to front and rear drums, boom hoist brakes and clutches. Controls respond instantly to the touch, delivering smooth function operation.
**Cooling:** Oil-to-air heat exchanger (plate-fin type)
**Filtration:** Full-flow and bypass type with replaceable element
**Electrical system:** All wiring corded for easy servicing, individual fused branch circuits.

**Max. relief valve pressure:**
**Load hoist, boom hoist and propel system:**
31.9 MPa {325 $kgf/cm^2$}
**Swing system:** 27.5 MPa {280 $kgf/cm^2$}
**Control system:** 7.0 MPa {71.3 $kgf/cm^2$}
**Reservoir capacity:** 550 liters

## Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer.
**Brake:** A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.
**Drum lock:** External ratchet for locking drum.
**Drum:** Double drum, grooved for 22 mm dia. wire rope.
**Line speed:** Double line on first drum layer
**Hoisting/Lowering:** 54 m/min

**Diameter of wire ropes**
**Boom guy line:** 30 mm
**Boom hoist reeving:** 16 parts of 22 mm dia.high strength wire rope
**Boom backstops:** Telescopic type with spring bumper
Required for all boom lengths

## Load Hoist System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
**Negative Brake:** A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional item.)
**Drum lock:** External ratchet for locking drum.
**Drums:**
**Front drum:**
617.4 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 430 m working length and 510 m storage length.
**Rear drum:**
617.1 mm P.C.D. x 833.7 mm Lg. wide drum, grooved for 25 mm wire rope. Rope capacity is 335 m working length and 510 m storage length.
Note: Rope lengths listed above denote drum capacity and may differ from actual rope lengths supplied when machinery is shipped.
**Line speed:** Single line on the first drum layer
**Hoisting/Lowering:** 100 m/min
**Line Pull (Single-line):**
**Rated line pull:** 132 kN {13.5 tf}

## Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (2 sets), the swing system provides 360° rotation.
**Swing parking brakes:** A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.
**Swing circle:** Single-row ball bearing with an integral internally cut swing gear.
**Swing lock:** Manually, four position lock for transportation
**Swing speed:** 2.6 $min^{-1}$ {rpm}

## Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine with low noise level. Complies with European Noise Regulations.
**Counterweight:** 60.0 ton

## Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a head-rest and armrests, and intermittent wiper and window washer (skylight and front window).

**Cab fittings:**

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, foot-rest, shoe tray

**Controls:**

Four adjustable levers for front drum, rear drum, boom drum and swing controls, and boom hoist pedal.

## Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

**Carbody weight:** 20.0 ton

**Crawler drive:** Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

**Crawler brakes:** Spring-set, hydraulically released parking brakes are built into each propel drive.

**Steering mechanism:** A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

**Track rollers:** Sealed track rollers for maintenance-free operation.

**Shoes (flat):** 64 shoes, 1,070 mm wide each crawler

**Max. travel speed:** 1.1/0.7 km/h

**Max. gradeability:** 30%

## Weight

Including upper and lower machine, 60.0 ton counterweight and 20.0 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

| Specification | Weight | Ground pressure |
|---|---|---|
| **Crane boom** | Approx. 164 ton, | 103 kPa {1.06 kgf/cm$^2$} |
| **Luffing jib** | Approx. 171.0 ton, | 95.0 kPa {0.97 kgf/cm$^2$} |

## Attachment

**Boom and Jib:**

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

Boom and Jib Length

| | Min. Length (Min. Combination) | Max. Length (Max. Combination) |
|---|---|---|
| Crane Boom | 15.2 m | 85.3 m |
| Luffing Boom | 15.2 m | 54.9 m |
| Long Boom | 61.0 m | 85.3 m |
| Fixed Jib | 24.4 m + 12.2 m | 73.2 m + 30.5 m |
| Luffing Jib | 21.3 m + 21.3 m | 54.9 m + 51.8 m |

## Main Specifications (Model: CKE 1800-1F)

| | |
|---|---|
| **Heavy Duty Crane Boom** | |
| Max. Lifting Capacity | 180 t/3.75 m |
| Max. Length | 12.2 m |
| **Crane Boom** | |
| Max. Lifting Capacity | 160 t/4.4 m |
| Max. Length | 85.3 m |
| **Luffing Boom** | |
| Max. Lifting Capacity | 110 t/5.2 m |
| Max. Length | 54.9 m |
| **Long Boom** | |
| Max. Lifting Capacity | 40.1 t/12.0 m |
| Max. Length | 85.3 m |
| **Fixed Jib** | |
| Max. Lifting Capacity | 26.8 t/15.2 m |
| Max. Length | 30.5 m |
| Max. Combination | 73.2 m + 30.5 m |
| **Luffing Jib** | |
| Max. Lifting Capacity | 48.6 t/9.14 m |
| Jib Length | 21.3 m ~ 51.8 m |
| Max. Combination | 54.9 m + 51.8 m |
| Luffing Angle | 60˚ ~ 88˚ |
| **Working Speed** | |
| Swing Speed | 2.6 min$^{-1}$ {rpm} |
| Travel Speed | 1.1/0.7 km/h |

| | |
|---|---|
| **Power Plant** | |
| Model | Hino P11C-UN |
| Engine Output | 247 kW/2,000 min$^{-1}$ {rpm} |
| Fuel Tank Capacity | 400 liters |
| **Main & Aux. Winch** | |
| Max. Line Speed | 100 m/min (1st layer) |
| Rated Line Pull | 132 kN {13.5 tf} |
| Wire Rope Diameter | 25 mm |
| Wire Rope Length | 430 m (main) 335 m (aux.) |
| Brake Type | Spring set hydraulically released (Negative) |
| Free Fall Brake | Wet-type multiple disc brake (Optional) |
| **Hydraulic System** | |
| Pumps | 4 variable displacement |
| Max. Pressure | 31.9 MPa {325 kgf/cm$^2$} |
| Hydraulic Tank Capacity | 550 liters |
| **Self Erection Device** | Standard |
| **Weight** | |
| Operating Weight* | Approx. 164 t |
| Ground Pressure* | 103 kPa {1.06 kgf/cm$^2$} |
| Counterweight | 60.0 t (Upper), 20.0 t (Lower) |
| Transportation Weight** | Approx. 44.0 t |

* Including upper and lower machine, 60.0 ton counterweight, 20.0 ton carbody weight, basic boom, hook, and other accessories.

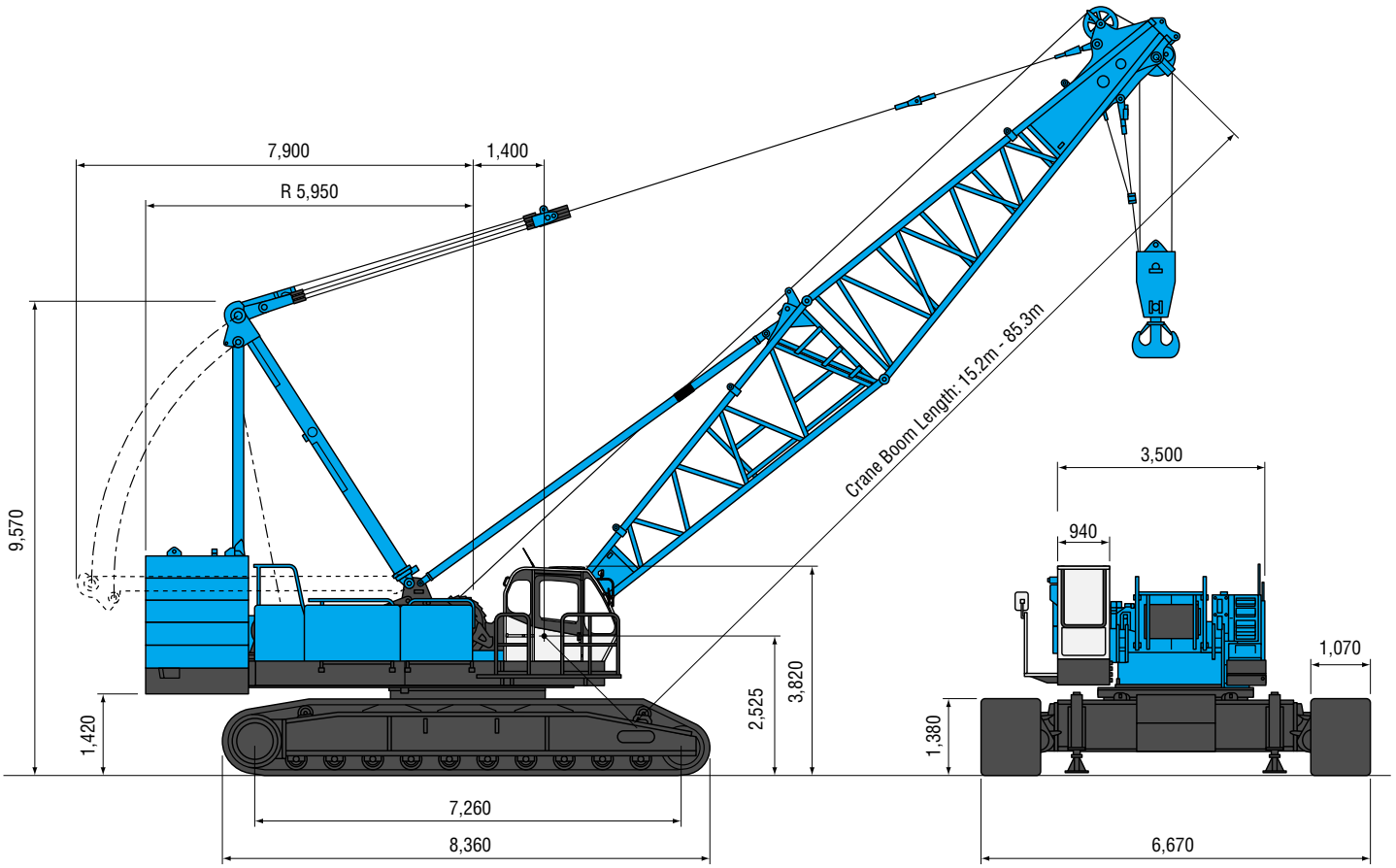
** Base machine with gantry, mast, carbody, lower spreader and upper spreader.

Units are SI units. { } indicates conventional units.

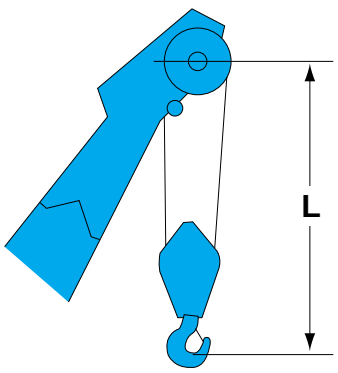
# GENERAL DIMENSIONS

## Crane Boom

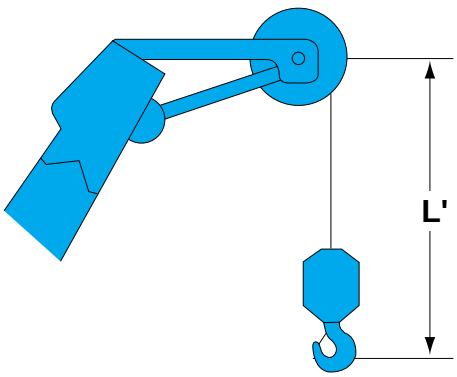
(Unit: mm )




## Limit of Hook Lifting



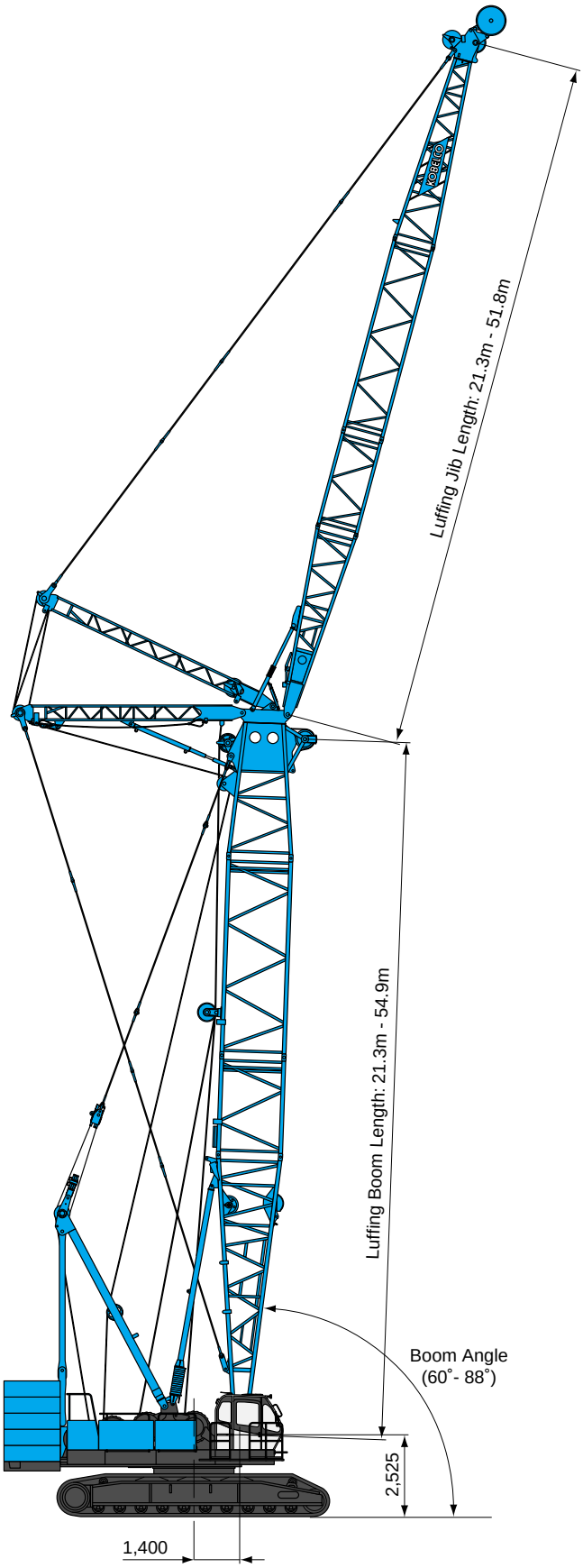

| Hook | L |
|---|---|
| 180 t/160 t hook | 5.2 m |
| 110 t hook | 5.1 m |
| 70 t hook | 4.9 m |
| 35 t hook | 4.7 m |




| Hook | L' |
|---|---|
| 13.5 t ball hook | 3.5 m |

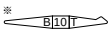
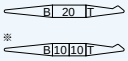
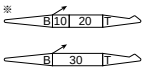
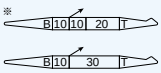
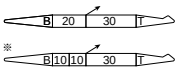
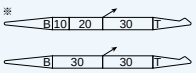
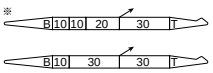
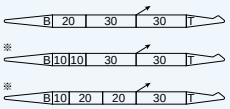
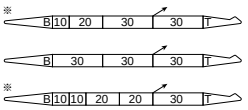
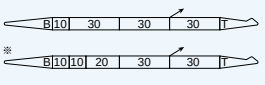
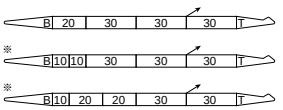
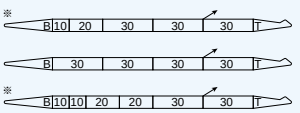
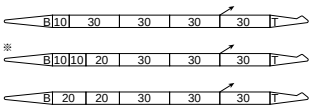
## Luffing Jib

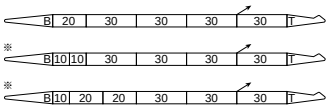
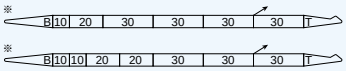
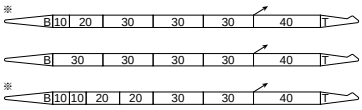
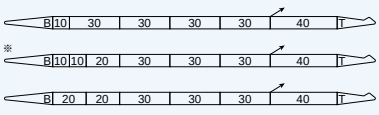
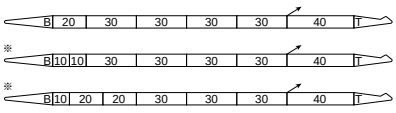
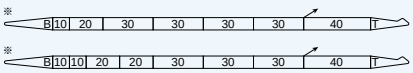
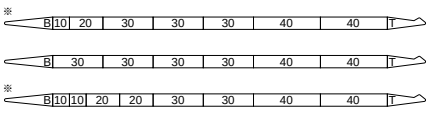
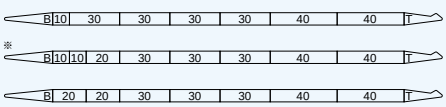
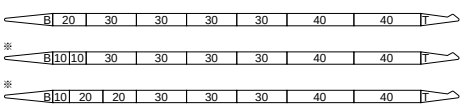
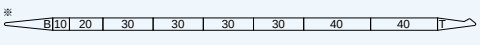
(Unit: mm )



# BOOM AND JIB ARRANGEMENTS

## Crane Boom Arrangements

| Boom length m (ft) | Boom arrangement |
|---|---|
| 12.2 (40) |   |
| 15.2 (50) |   |
| 18.3 (60) |   |
| 21.3 (70) |   |
| 24.4 (80) |   |
| 27.4 (90) |   |
| 30.5 (100) |   |
| 33.5 (110) |   |
| 36.6 (120) |   |
| 39.6 (130) |   |
| 42.7 (140) |   |
| 45.7 (150) |   |
| 48.8 (160) |   |
| 51.8 (170) |   |
| 54.9 (180) |   |

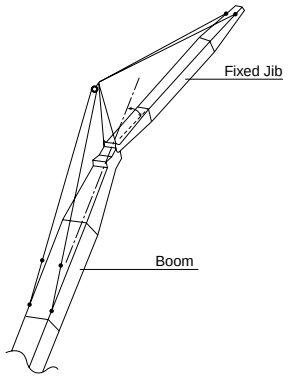
| Boom length m (ft) | Boom arrangement |
|---|---|
| 57.9 (190) |   |
| 61.0 (200) |   |
| 64.0 (210) |   |
| 67.1 (220) |   |
| 70.1 (230) |   |
| 73.2 (240) |   |
| 76.2 (250) |   |
| 79.3 (260) |   |
| 82.3 (270) |   |
| 85.3 (280) |   |

| Symbol | Boom Length | Remarks |
|---|---|---|
| B | 8.5 m | Boom Base |
| HT | 3.7 m | Heavy Duty Crane Boom Top |
| T | 6.7 m | Boom Top |
| 10 | 3.0 m | Insert Boom |
| 20 | 6.1 m | Insert Boom |
| 30 | 9.1 m | Insert Boom |
| 40 | 12.2 m | Insert Boom |

↗ mark shows the guy line installing position when the fixed jib is used.

※ mark shows the standard boom arrangement which enables each boom length of less than that boom length to be configured.

# Fixed Jib Arrangements




| Crane boom length | Jib length m (ft) | Jib arrangement |
|---|---|---|
| 24.4 m ≀ 73.2 m | 12.2(40) | B 3.0 T (4.6 / 4.6) |
| | 18.3 (60) | B 3.0 6.1 T |
| | 24.4 (80) | B 3.0 6.1 6.1 T |
| | 30.5 (100) | B 3.0 6.1 6.1 6.1 T |

| Symbol | Jib Length | Remarks |
|---|---|---|
| B | 4.6 m | Jib Base |
| T | 4.6 m | Jib Top |
| 3.0 | 3.0 m | Insert Jib |
| 6.1 | 6.1 m | Insert Jib |

# Long Boom Arrangements

| Boom length m (ft) | Long Boom arrangement |
|---|---|
| 61.0 (200) | ※ B 10 10 30 30 30 30 M JT |
| 64.0 (210) | ※ B 10 10 30 30 30 30 M 10 JT |
| 67.1 (220) | ※ B 10 10 30 30 30 30 M 10 10 JT<br>※ B 10 10 30 30 30 30 M 20 JT |
| 70.1 (230) | ※ B 10 10 30 30 30 30 M 10 20 JT<br>※ B 10 10 30 30 30 30 M 30 JT |
| 73.2 (240) | ※ B 10 10 30 30 30 30 M 10 10 20 JT<br>※ B 10 10 30 30 30 30 M 10 30 JT |
| 76.2 (250) | ※ B 10 10 30 30 30 30 M 10 10 30 JT<br>※ B 10 10 30 30 30 30 M 20 30 JT |
| 79.3 (260) | ※ B 10 10 30 30 30 30 M 10 20 30 JT<br>※ B 10 10 30 30 30 30 M 30 30 JT |
| 82.3 (270) | ※ B 10 10 30 30 30 30 M 10 10 20 30 JT<br>※ B 10 10 30 30 30 30 M 10 30 30 JT |
| 85.3 (280) | ※ B 10 20 30 30 30 30 M 10 10 20 30 JT<br>※ B 10 20 30 30 30 30 M 10 30 30 JT |

| Symbol | Long Boom Length | Remarks |
|---|---|---|
| B | 8.5 m | Boom Base |
| | 6.4 m | Luffing Jib Top |
| 10 | 3.0 m | Insert Boom |
| 20 | 6.1 m | Insert Boom |
| 30 | 9.1 m | Insert Boom |
| M | 3.6 m | Tapered Boom |
| 10 | 3.0 m | Luffing Insert Jib |
| 20 | 6.1 m | Luffing Insert Jib |
| 30 | 9.1 m | Luffing Insert Jib |

※ mark shows the standard boom arrangement which enables each boom length of less than that boom length to be configured.

# Luffing Boom Arrangements for Luffing

| Boom length m (ft) | Boom arrangement |
|---|---|
| 21.3 (70) | ※ B 10 20 C<br>B 30 C |
| 24.4 (80) | ※ B 10 10 20 C<br>B 10 30 C |
| 27.4 (90) | ※ B 10 10 30 C<br>B 20 30 C |
| 30.5 (100) | ※ B 10 20 30 C<br>B 30 30 C |
| 33.5 (110) | ※ B 10 10 20 30 C<br>B 10 30 30 C |
| 36.6 (120) | ※ B 10 10 30 30 C<br>B 20 30 30 C |

| Boom length m (ft) | Boom arrangement |
|---|---|
| 39.6 (130) | ※ B 10 20 30 30 C<br>B 30 30 30 C |
| 42.7 (140) | ※ B 10 10 20 30 30 C<br>B 10 30 30 30 C |
| 45.7 (150) | ※ B 10 10 30 30 30 C<br>B 20 30 30 30 C |
| 48.8 (160) | ※ B 10 20 30 30 30 C<br>B 30 30 30 30 C |
| 51.8 (170) | ※ B 10 10 20 30 30 30 C<br>B 10 30 30 30 30 C |
| 54.9 (180) | ※ B 10 10 30 30 30 30 C<br>B 20 30 30 30 30 C |

| Symbol | Luffing Boom Length | Remarks |
|---|---|---|
| B | 8.5 m | Boom Base |
| C | 3.7 m | Luffing Boom Top |
| 10 | 3.0 m | Insert Boom |
| 20 | 6.1 m | Insert Boom |
| 30 | 9.1 m | Insert Boom |

※ mark shows the standard luffing jib arrangement which enables each luffing jib length of less than that jib length to be configured.

# Luffing Boom Arrangements for Crane

| Boom length m (ft) | Boom arrangement |
|---|---|
| 15.2 (50) | B 10 C |
| 18.3 (60) | ※ B 10 10 C<br>B 20 C |
| 21.3 (70) | ※ B 10 20 C<br>B 30 C |
| 24.4 (80) | ※ B 10 10 20 C<br>B 10 30 C |
| 27.4 (90) | ※ B 10 10 30 C<br>B 20 30 C |
| 30.5 (100) | ※ B 10 20 30 C<br>B 30 30 C |
| 33.5 (110) | ※ B 10 10 20 30 C<br>B 10 30 30 C |

| Boom length m (ft) | Boom arrangement |
|---|---|
| 36.6 (120) | ※ B 10 10 30 30 C<br>B 20 30 30 C |
| 39.6 (130) | ※ B 10 20 30 30 C<br>B 30 30 30 C |
| 42.7 (140) | ※ B 10 10 20 30 30 C<br>B 10 30 30 30 C |
| 45.7 (150) | ※ B 10 10 30 30 30 C<br>B 20 30 30 30 C |
| 48.8 (160) | ※ B 10 20 30 30 30 C<br>B 30 30 30 30 C |
| 51.8 (170) | ※ B 10 10 20 30 30 30 C<br>B 10 30 30 30 30 C |
| 54.9 (180) | ※ B 10 10 30 30 30 30 C<br>B 20 30 30 30 30 C |

| Symbol | Luffing Boom Length | Remarks |
|---|---|---|
| B | 8.5 m | Boom Base |
| C | 3.7 m | Luffing Boom Top |
| 10 | 3.0 m | Insert Boom |
| 20 | 6.1 m | Insert Boom |
| 30 | 9.1 m | Insert Boom |

※ mark shows the standard luffing jib arrangement which enables each luffing jib length of less than that jib length to be configured.

# Luffing Jib Arrangements

| Jib length m (ft) | Jib arrangement |
|---|---|
| 21.3 (70) | ※ JB 10 20 JT<br>JB 30 JT |
| 24.4 (80) | ※ JB 10 10 20 JT<br>JB 10 30 JT |
| 27.4 (90) | ※ JB 10 10 30 JT<br>JB 20 30 JT |
| 30.5 (100) | ※ JB 10 20 30 JT<br>JB 30 30 JT |
| 33.5 (110) | ※ JB 10 10 20 30 JT<br>JB 10 30 30 JT |

| Jib length m (ft) | Jib arrangement |
|---|---|
| 36.6 (120) | ※ JB 10 10 30 30 JT<br>JB 20 30 30 JT |
| 39.6 (130) | ※ JB 10 20 30 30 JT<br>JB 30 30 30 JT |
| 42.7 (140) | ※ JB 10 10 20 30 30 JT<br>JB 10 30 30 30 JT |
| 45.7 (150) | ※ JB 10 10 30 30 30 JT<br>JB 20 30 30 30 JT |
| 48.8 (160) | ※ JB 10 20 30 30 30 JT |
| 51.8 (170) | ※ JB 20 20 30 30 30 JT |

| Symbol | Luffing Jib Length | Remarks |
|---|---|---|
| JB | 5.8 m | Luffing Jib Base |
| JT | 6.4 m | Luffing Jib Top |
| 10 | 3.0 m | Luffing Insert Jib |
| 20 | 6.1 m | Luffing Insert Jib |
| 30 | 9.1 m | Luffing Insert Jib |

※ mark shows the standard luffing jib arrangement which enables each luffing jib length of less than that jib length to be configured.

## Luffing Boom and Jib Combinations.

| Boom Length (m) \ Jib Length (m) | 21.3 | 24.4 | 27.4 | 30.5 | 33.5 | 36.6 | 39.6 | 42.7 | 45.7 | 48.8 | 51.8 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 21.3 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 24.4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 27.4 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 30.5 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 33.5 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 36.6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 39.6 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 42.7 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 45.7 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 48.8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 51.8 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| 54.9 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |

○ : Combinations which is allowed

## Hook Blocks

A range of hook blocks can be specified, each with a safety latch.

| Hooks | Weight (kg) | No. of sheaves | No. of lines and max. rated loads (tons) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 1 | 2 | 3 | 4 | 5 | 6 |
| 180/160-ton | 2,800 | 8 | - | 26.8 | 40.1 | 53.5 | 66.9 | 80.3 |
| 110-ton | 1,800 | 4 | - | 26.8 | 40.1 | 53.5 | 66.9 | 80.3 |
| 70-ton | 1,200 | 3 | - | 26.8 | 40.1 | 53.5 | 66.9 | 70.0 |
| 35-ton | 900 | 1 | - | 26.8 | 35.0 | - | - | - |
| 13.5-ton ball hook | 460 | 0 | 13.5 | - | - | - | - | - |

| Hooks | Weight (kg) | No. of sheaves | No. of lines and max. rated loads (tons) | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | 7 | 8 | 9 | 10 | 12 | 14 |
| 180/160-ton | 2,800 | 8 | 93.7 | 107.0 | 120.4 | 133.8 | 160.0 | 180.0 |
| 110-ton | 1,800 | 4 | 93.7 | 107.0 | 110.0 | - | - | - |
| 70-ton | 1,200 | 3 | - | - | - | - | - | - |
| 35-ton | 900 | 1 | - | - | - | - | - | - |
| 13.5-ton ball hook | 460 | 0 | - | - | - | - | - | - |

## Main Hoist Drum Rated Loads in Metric Tons

| No. of Parts of Line | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|
| Max. Loads (ton) | 13.5 | 26.8 | 40.1 | 53.5 | 66.9 | 80.3 |

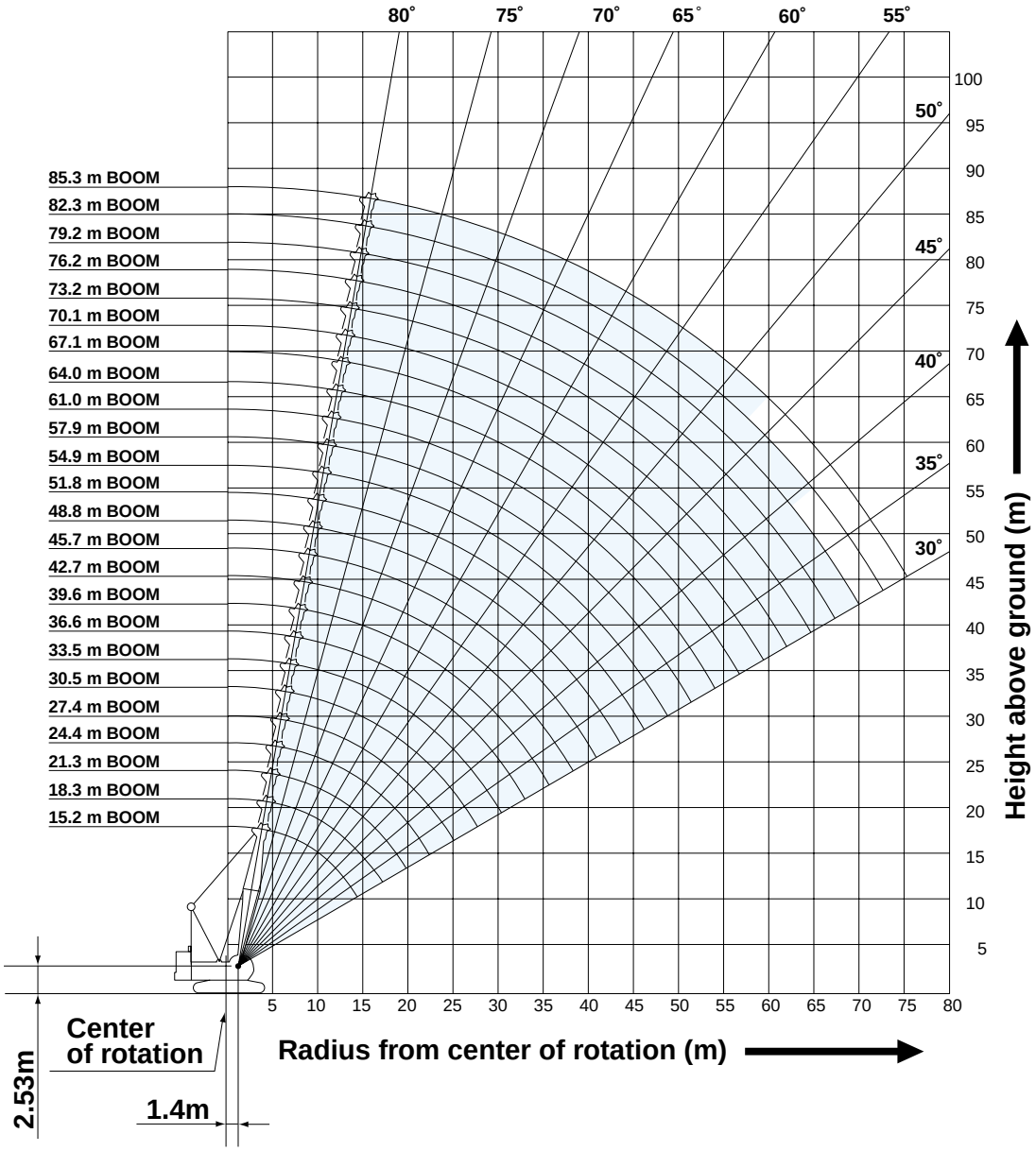
| No. of Parts of Line | 7 | 8 | 9 | 10 | 12 | 14 |
|---|---|---|---|---|---|---|
| Max. Loads (ton) | 93.7 | 107.0 | 120.4 | 133.8 | 160.0 | 180.0 |

## Symbols for Attachments:

| Crane Boom | Auxiliary Sheave for Crane Boom | Luffing Boom | Aux. Sheave for Luffing Boom | Long Boom | Aux. Sheave for Long Boom | Fixed Jib | Luffing Jib | Luffing Boom with Luffing Jib |
|---|---|---|---|---|---|---|---|---|

# WORKING RANGES AND LIFTING CAPACITIES

## Crane Boom Working Ranges




**NOTES:**

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block(s), slings and all other load handling accessories from main boom or auxiliary sheave ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in ☐ are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Crane boom ratings: Deduct weight of hook block(s), slings, and all other load handling accessories from crane boom ratings shown.
16. Auxiliary sheave ratings: Deduct 0.6 ton (weight of auxiliary sheave frame), weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown, but should not exceed 26.8 tons.
    Crane boom lengths for auxiliary sheave mounting are 15.2 m to 82.3 m.
17. Crane boom ratings with auxiliary sheave: Deduct 0.6 ton, weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown. Minimum ratings is 1.6 tons.
18. Heavy duty crane boom ratings: Deduct weight of hook block(s), slings and all other load handling accessories from crane boom ratings shown.

# Crane Boom Lifting Capacity

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

| Working radius (m) \ Boom Length (m) | 12.2* | 15.2 | 18.3 | 21.3 | 24.4 | 27.4 | 30.5 | 33.5 | 36.6 | 39.6 | 42.7 | 45.7 | 48.8 | 51.8 | Working radius (m) \ Boom Length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **3.0** | 3.75m /180.0 | | | | | | | | | | | | | | **3.0** |
| **4.0** | 171.5 | 4.4m /160.0 | 4.9m /144.2 | | | | | | | | | | | | **4.0** |
| **5.0** | 140.5 | 141.6 | 141.6 | 5.4m /131.4 | 5.9m /121.3 | | | | | | | | | | **5.0** |
| **6.0** | 119.1 | 119.3 | 119.3 | 119.3 | 119.3 | 6.4m /112.0 | 6.9m /103.9 | | | | | | | | **6.0** |
| **7.0** | 102.0 | 102.7 | 102.7 | 102.7 | 102.7 | 102.7 | 102.5 | 7.4m / 97.1 | 7.9m / 90.6 | | | | | | **7.0** |
| **8.0** | 88.1 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 89.5 | 8.4m / 80.3 | 8.9m / 76.8 | | | | **8.0** |
| **9.0** | 76.8 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 79.0 | 78.4 | 76.3 | 9.4m / 70.6 | | | **9.0** |
| **10.0** | 67.7 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 71.5 | 70.2 | 68.4 | 66.6 | 10.0m / 65.4 | 10.5m / 60.7 | **10.0** |
| **12.0** | 51.4 | 58.8 | 58.7 | 58.6 | 58.5 | 58.4 | 58.3 | 58.2 | 58.2 | 57.8 | 56.5 | 55.1 | 54.0 | 52.8 | **12.0** |
| **14.0** | 12.4m / 50.0 | 47.2 | 47.7 | 47.6 | 47.4 | 47.3 | 47.2 | 47.0 | 47.0 | 46.9 | 46.7 | 46.5 | 46.0 | 45.0 | **14.0** |
| **16.0** | | 14.8m / 41.9 | 40.2 | 40.1 | 39.9 | 39.8 | 39.6 | 39.4 | 39.4 | 39.3 | 39.1 | 38.9 | 38.8 | 38.6 | **16.0** |
| **18.0** | | | 17.5m / 35.9 | 34.4 | 34.2 | 34.1 | 34.0 | 33.7 | 33.7 | 33.6 | 33.3 | 33.2 | 33.1 | 32.9 | **18.0** |
| **20.0** | | | | 30.1 | 29.8 | 29.6 | 29.5 | 29.3 | 29.2 | 29.1 | 28.9 | 28.7 | 28.6 | 28.4 | **20.0** |
| **22.0** | | | | 20.1m / 29.9 | 26.5 | 26.3 | 26.2 | 25.9 | 25.8 | 25.7 | 25.5 | 25.3 | 25.3 | 25.0 | **22.0** |
| **24.0** | | | | | 22.7m / 25.4 | 23.6 | 23.4 | 23.2 | 23.0 | 22.9 | 22.7 | 22.5 | 22.4 | 22.2 | **24.0** |
| **26.0** | | | | | | 25.4m / 22.0 | 21.1 | 20.9 | 20.7 | 20.6 | 20.4 | 20.2 | 20.1 | 19.9 | **26.0** |
| **28.0** | | | | | | | 28.0m / 19.2 | 19.0 | 18.8 | 18.7 | 18.5 | 18.3 | 18.2 | 18.0 | **28.0** |
| **30.0** | | | | | | | | 17.4 | 17.2 | 17.1 | 16.9 | 16.7 | 16.6 | 16.4 | **30.0** |
| **32.0** | | | | | | | | 30.7m / 16.9 | 15.8 | 15.7 | 15.4 | 15.2 | 15.1 | 14.9 | **32.0** |
| **34.0** | | | | | | | | | 33.3m / 15.0 | 14.4 | 14.2 | 14.0 | 13.9 | 13.6 | **34.0** |
| **36.0** | | | | | | | | | | 35.9m / 13.4 | 13.1 | 13.0 | 12.8 | 12.6 | **36.0** |
| **38.0** | | | | | | | | | | | 12.2 | 12.1 | 11.8 | 11.7 | **38.0** |
| **40.0** | | | | | | | | | | | 38.6m / 12.0 | 11.1 | 11.0 | 10.7 | **40.0** |
| **42.0** | | | | | | | | | | | | 41.2m / 10.7 | 10.3 | 10.0 | **42.0** |
| **44.0** | | | | | | | | | | | | | 43.8m / 9.7 | 9.4 | **44.0** |
| **46.0** | | | | | | | | | | | | | | 8.7 | **46.0** |
| **48.0** | | | | | | | | | | | | | | 46.5m / 8.6 | **48.0** |
| **Reeves** | 14 | 12 | 12 | 10 | 10 | 9 | 8 | 8 | 7 | 6 | 6 | 6 | 5 | 5 | **Reeves** |

* Values of 12.2 m boom length are lifting capacities for heavy duty crane boom.

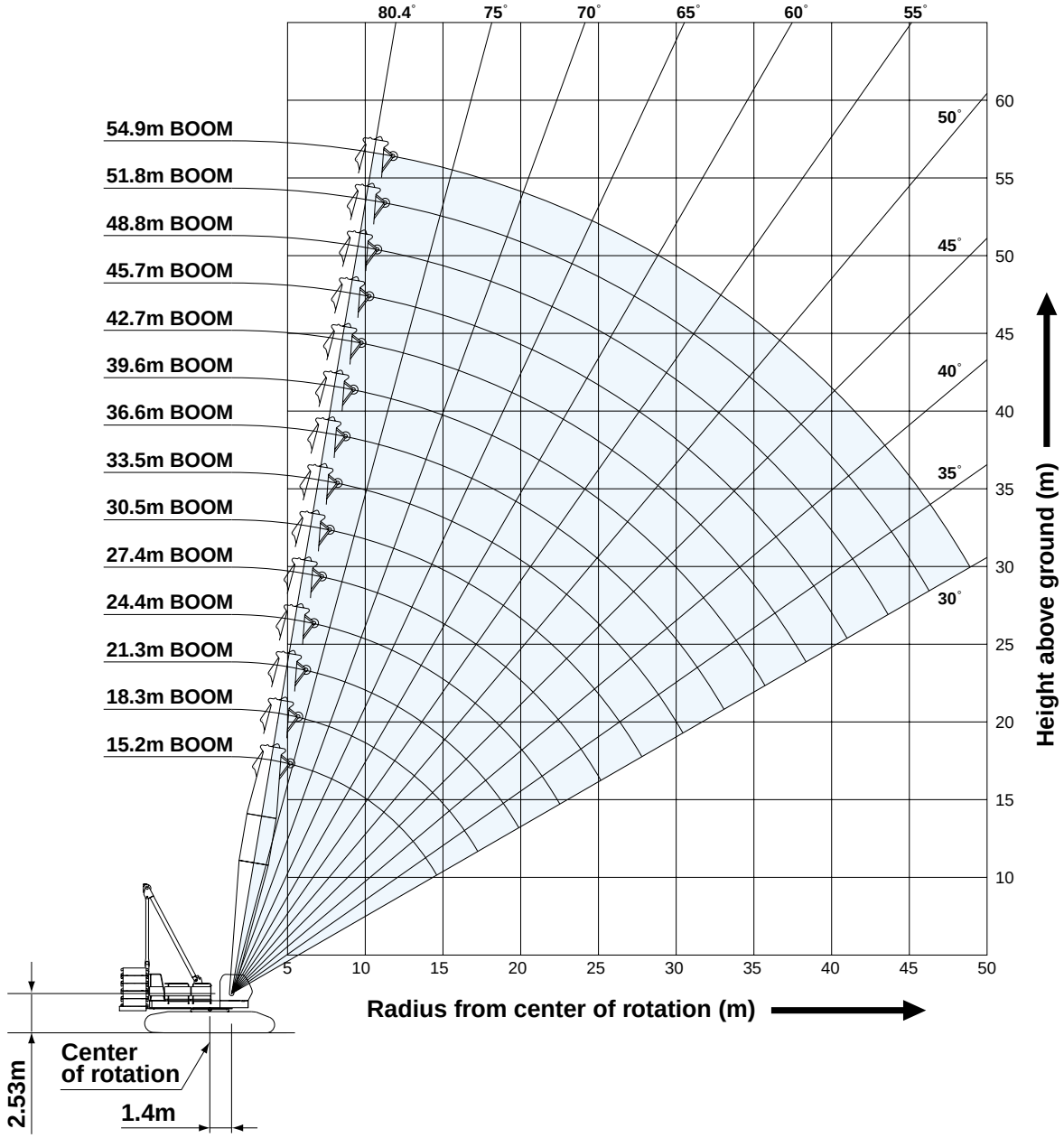
| Working radius (m) \ Boom Length (m) | 54.9 | 57.9 | 61.0 | 64.0 | 67.1 | 70.1 | 73.2 | 76.2 | 79.2 | 82.3 | 85.3 | Boom Length (m) \ Working radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **10.0** | 11.0m / 56.4 | 11.5m / 52.4 | | | | | | | | | | **10.0** |
| **12.0** | 51.5 | 50.5 | 12.0m / 48.3 | 12.5m / 44.7 | 13.0m / 41.2 | 13.5m / 38.0 | | | | | | **12.0** |
| **14.0** | 43.9 | 43.2 | 42.3 | 41.5 | 40.1 | 37.5 | 14.0m / 34.5 | 14.5m / 31.8 | 15.0m / 29.0 | 15.5m / 25.9 | | **14.0** |
| **16.0** | 38.1 | 37.5 | 36.7 | 36.1 | 35.3 | 34.8 | 32.2 | 30.1 | 27.9 | 25.3 | 16.1m / 21.0 | **16.0** |
| **18.0** | 32.7 | 32.7 | 32.3 | 31.8 | 31.1 | 30.7 | 29.8 | 27.8 | 25.9 | 22.9 | 19.0 | **18.0** |
| **20.0** | 28.3 | 28.2 | 28.0 | 27.9 | 27.7 | 27.3 | 26.7 | 25.8 | 23.9 | 20.9 | 17.2 | **20.0** |
| **22.0** | 24.9 | 24.8 | 24.6 | 24.5 | 24.4 | 24.2 | 24.0 | 23.6 | 22.0 | 19.1 | 15.6 | **22.0** |
| **24.0** | 22.1 | 22.0 | 21.9 | 21.7 | 21.6 | 21.4 | 21.4 | 21.3 | 20.3 | 17.5 | 14.2 | **24.0** |
| **26.0** | 19.7 | 19.7 | 19.4 | 19.4 | 19.2 | 19.0 | 19.0 | 18.9 | 18.7 | 16.0 | 13.0 | **26.0** |
| **28.0** | 17.8 | 17.7 | 17.5 | 17.5 | 17.3 | 17.1 | 17.0 | 17.0 | 16.8 | 14.7 | 11.8 | **28.0** |
| **30.0** | 16.2 | 16.1 | 15.9 | 15.8 | 15.6 | 15.5 | 15.4 | 15.3 | 15.2 | 13.5 | 10.8 | **30.0** |
| **32.0** | 14.7 | 14.6 | 14.4 | 14.3 | 14.2 | 14.0 | 13.9 | 13.8 | 13.7 | 12.4 | 9.9 | **32.0** |
| **34.0** | 13.5 | 13.4 | 13.2 | 13.1 | 12.9 | 12.8 | 12.7 | 12.6 | 12.4 | 11.4 | 9.0 | **34.0** |
| **36.0** | 12.4 | 12.3 | 12.1 | 12.0 | 11.9 | 11.7 | 11.6 | 11.5 | 11.3 | 10.4 | 8.2 | **36.0** |
| **38.0** | 11.4 | 11.3 | 11.2 | 11.1 | 10.9 | 10.8 | 10.7 | 10.5 | 10.3 | 9.6 | 7.4 | **38.0** |
| **40.0** | 10.6 | 10.4 | 10.2 | 10.2 | 10.0 | 9.8 | 9.7 | 9.6 | 9.4 | 8.7 | 6.7 | **40.0** |
| **42.0** | 9.9 | 9.7 | 9.5 | 9.4 | 9.3 | 9.1 | 9.0 | 8.9 | 8.7 | 8.0 | 6.0 | **42.0** |
| **44.0** | 9.2 | 9.0 | 8.9 | 8.8 | 8.5 | 8.4 | 8.3 | 8.2 | 8.0 | 7.3 | 5.4 | **44.0** |
| **46.0** | 8.5 | 8.4 | 8.2 | 8.1 | 7.9 | 7.7 | 7.6 | 7.5 | 7.4 | 6.6 | 4.8 | **46.0** |
| **48.0** | 8.0 | 7.9 | 7.6 | 7.6 | 7.4 | 7.2 | 7.1 | 7.0 | 6.8 | 6.0 | 4.2 | **48.0** |
| **50.0** | 49.1m / 7.7 | 7.4 | 7.1 | 7.0 | 6.9 | 6.7 | 6.6 | 6.5 | 6.3 | 5.4 | 3.7 | **50.0** |
| **52.0** | | 51.8m / 6.9 | 6.7 | 6.6 | 6.4 | 6.2 | 6.0 | 5.9 | 5.8 | 4.8 | 3.2 | **52.0** |
| **54.0** | | | 6.2 | 6.2 | 6.0 | 5.7 | 5.6 | 5.5 | 5.3 | 4.3 | 2.7 | **54.0** |
| **56.0** | | | 54.4m / 6.1 | 5.8 | 5.5 | 5.3 | 5.2 | 5.0 | 4.8 | 3.8 | 2.2 | **56.0** |
| **58.0** | | | | 57.0m / 5.5 | 5.1 | 4.9 | 4.7 | 4.6 | 4.4 | 3.3 | 1.8 | **58.0** |
| **60.0** | | | | | 59.7m / 4.8 | 4.5 | 4.4 | 4.2 | 4.0 | 2.8 | 59.0m / 1.6 | **60.0** |
| **62.0** | | | | | | 4.2 | 4.0 | 3.9 | 3.7 | 2.4 | | **62.0** |
| **64.0** | | | | | | 62.3m / 4.1 | 3.7 | 3.6 | 3.3 | 1.9 | | **64.0** |
| **66.0** | | | | | | | 65.0m / 3.5 | 3.2 | 2.9 | 65.0m / 1.7 | | **66.0** |
| **68.0** | | | | | | | | 67.6m / 3.0 | 2.4 | | | **68.0** |
| **70.0** | | | | | | | | | 70.0m / 2.0 | | | **70.0** |
| **reeves** | 5 | 4 | 4 | 4 | 4 | 3 | 3 | 3 | 3 | 2 | 2 | **reeves** |

Note: Ratings according to EN13000.

Ratings shown in ☐ are determined by the strength of the boom or other structural components.

Refer to notes P12.

# Luffing Boom Working Ranges




**NOTES:**

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block(s), slings and all other load handling accessories from long boom or jib ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/ jib inserts and guy lines must be arranged as shown in the "Operator's Manual".
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. The boom should be erected over the front of crawlers, not laterally.
13. Ratings shown in ☐ are determined by the strength of the boom or other structural component.
14. Instruction in the "Operator's Manual" must be strictly observed when operating the machine.
15. Luffing boom ratings: Deduct weight of hook block(s), slings and all other load handling accessories from luffing boom ratings shown.
16. Auxiliary sheave ratings: Deduct 0.6 ton (weight of auxiliary sheave frame), weight of hook block(s), slings and all other load handling accessories from luffing boom ratings shown, but should not exceed 26.8 tons.
    Luffing boom lengths for auxiliary sheave mounting are 15.2 m to 54.9 m.
17. Luffing boom ratings with auxiliary sheave: Deduct 0.6 ton, weight of hook block(s), slings and all other load handling accessories from luffing boom ratings shown.

# Luffing Boom Lifting Capacity

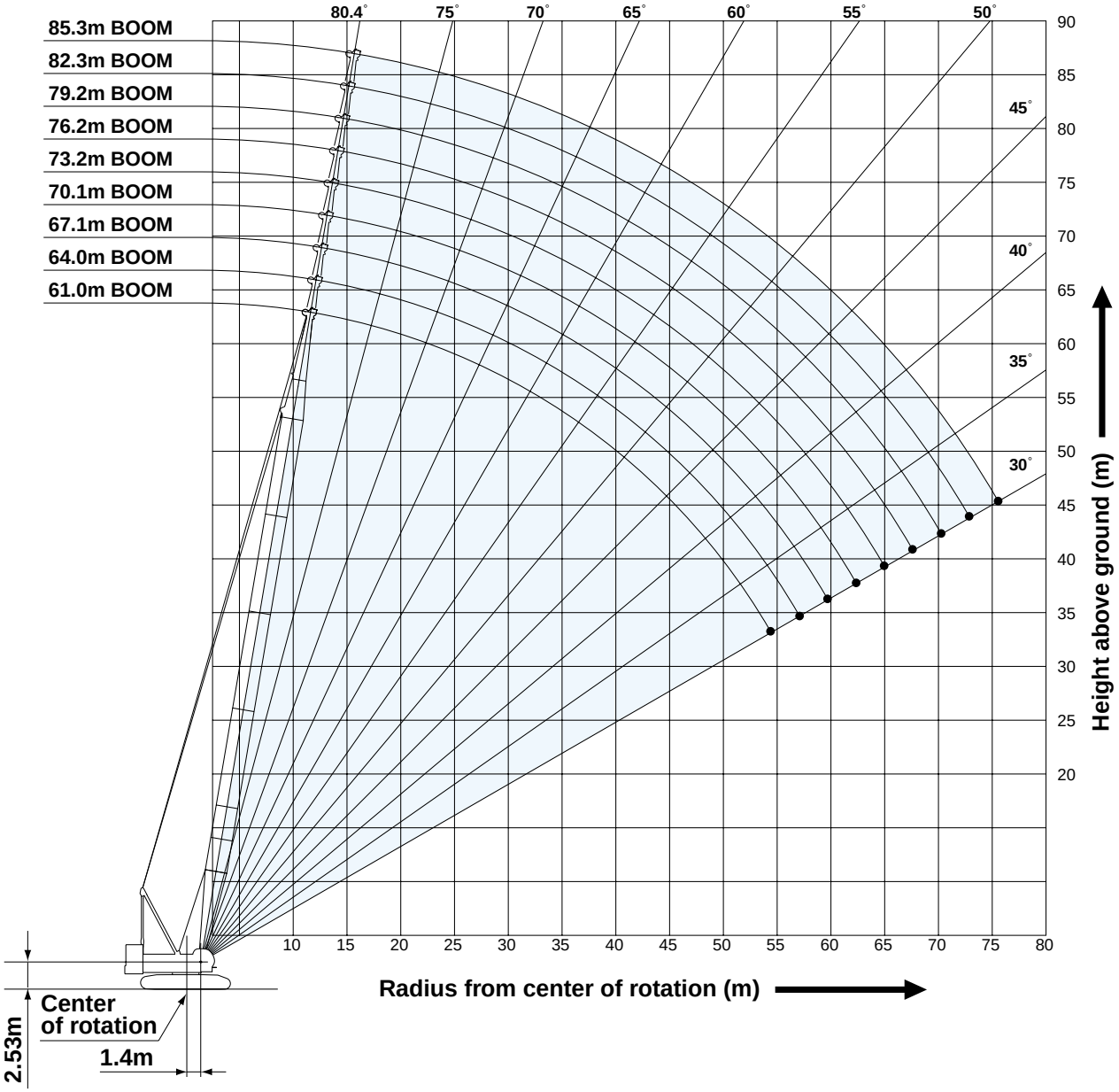
Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

| Working radius (m) \ Boom Length (m) | 15.2 | 18.3 | 21.3 | 24.4 | 27.4 | 30.5 | 33.5 | 36.6 | 39.6 | 42.7 | 45.7 | 48.8 | 51.8 | 54.9 | Boom Length (m) \ Working radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **5.0** | 5.2m /110.0 | 5.7m /107.0 | | | | | | | | | | | | | **5.0** |
| **6.0** | 107.0 | 106.7 | 6.2m /106.2 | 6.8m /103.7 | | | | | | | | | | | **6.0** |
| **7.0** | 101.3 | 101.2 | 101.1 | 101.0 | 7.3m /96.8 | 7.8m /90.4 | | | | | | | | | **7.0** |
| **8.0** | 89.8 | 89.7 | 89.6 | 89.5 | 89.4 | 89.3 | 8.3m /85.5 | 8.8m /80.3 | | | | | | | **8.0** |
| **9.0** | 79.4 | 79.3 | 79.3 | 79.1 | 79.0 | 79.0 | 78.8 | 78.7 | 9.3m /75.5 | 9.8m /69.3 | | | | | **9.0** |
| **10.0** | 71.2 | 71.1 | 71.0 | 70.9 | 70.8 | 70.7 | 70.6 | 70.5 | 69.4 | 67.5 | 10.3m /64.0 | 10.8m /59.3 | 11.3m /55.1 | 11.8m /51.3 | **10.0** |
| **12.0** | 57.5 | 57.3 | 57.2 | 57.0 | 56.9 | 56.8 | 56.6 | 56.6 | 56.5 | 55.5 | 54.2 | 52.9 | 51.6 | 50.4 | **12.0** |
| **14.0** | 46.2 | 46.4 | 46.3 | 46.1 | 46.0 | 45.9 | 45.7 | 45.7 | 45.6 | 45.4 | 45.2 | 44.8 | 43.7 | 42.7 | **14.0** |
| **16.0** | 15.2m /39.2 | 39.0 | 38.9 | 38.6 | 38.5 | 38.4 | 38.2 | 38.1 | 38.0 | 37.8 | 37.7 | 37.6 | 37.4 | 36.9 | **16.0** |
| **18.0** | | 17.8m /33.6 | 33.2 | 32.9 | 32.8 | 32.7 | 32.5 | 32.4 | 32.3 | 32.1 | 32.0 | 31.9 | 31.7 | 31.5 | **18.0** |
| **20.0** | | | 29.2 | 28.7 | 28.6 | 28.4 | 28.2 | 28.1 | 28.0 | 27.8 | 27.7 | 27.6 | 27.4 | 27.2 | **20.0** |
| **22.0** | | | 20.5m /28.0 | 25.3 | 25.2 | 25.1 | 24.8 | 24.7 | 24.6 | 24.4 | 24.2 | 24.2 | 24.0 | 23.8 | **22.0** |
| **24.0** | | | | 23.1m /23.7 | 22.5 | 22.3 | 22.1 | 22.0 | 21.9 | 21.6 | 21.5 | 21.4 | 21.2 | 21.0 | **24.0** |
| **26.0** | | | | | 25.7m /20.4 | 20.1 | 19.8 | 19.7 | 19.6 | 19.3 | 19.2 | 19.1 | 18.9 | 18.7 | **26.0** |
| **28.0** | | | | | | 18.2 | 17.9 | 17.8 | 17.7 | 17.5 | 17.3 | 17.2 | 17.0 | 16.8 | **28.0** |
| **30.0** | | | | | | 28.4m /17.8 | 16.3 | 16.2 | 16.1 | 15.8 | 15.7 | 15.6 | 15.4 | 15.2 | **30.0** |
| **32.0** | | | | | | | 31.0m /15.6 | 14.8 | 14.7 | 14.4 | 14.3 | 14.2 | 13.9 | 13.8 | **32.0** |
| **34.0** | | | | | | | | 33.7m /13.8 | 13.5 | 13.3 | 13.1 | 13.0 | 12.7 | 12.6 | **34.0** |
| **36.0** | | | | | | | | | 12.5 | 12.2 | 12.0 | 11.9 | 11.7 | 11.5 | **36.0** |
| **38.0** | | | | | | | | | 36.3m /12.3 | 11.2 | 11.0 | 10.9 | 10.7 | 10.5 | **38.0** |
| **40.0** | | | | | | | | | | 38.9m /10.9 | 10.3 | 10.2 | 9.9 | 9.7 | **40.0** |
| **42.0** | | | | | | | | | | | 41.6m /9.7 | 9.4 | 9.1 | 9.0 | **42.0** |
| **44.0** | | | | | | | | | | | | 8.8 | 8.5 | 8.3 | **44.0** |
| **46.0** | | | | | | | | | | | | 44.2m /8.6 | 7.8 | 7.7 | **46.0** |
| **48.0** | | | | | | | | | | | | | 46.9m /7.6 | 7.1 | **48.0** |
| **50.0** | | | | | | | | | | | | | | 49.5m /6.7 | **50.0** |
| **Reeves** | 8 | 8 | 8 | 8 | 8 | 7 | 7 | 6 | 6 | 6 | 5 | 5 | 5 | 4 | **Reeves** |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P14.

# Long Boom Working Ranges




**NOTES:**

1. Ratings according to EN13000.
2. Ratings in metric tons for 360˚ working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block(s), slings and all other load handling accessories from long boom or jib ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/ jib inserts and guy lines must be arranged as shown in the “Operator's Manual”.
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Ratings shown in [ ] are determined by the strength of the boom or other structural component.
13. Instruction in the “Operator's Manual” must be strictly observed when operating the machine.
14. Long boom ratings: Deduct weight of hook block(s), slings and all other load handling accessories from long boom ratings shown.
15. Auxiliary sheave ratings: Deduct 0.4 ton (weight of auxiliary sheave frame), weight of hook block(s), slings and all other load handling accessories from long boom ratings shown, but should not exceed 13.5 tons. Long boom length for auxiliary sheave mounting are 61.0 m to 79.2 m.

# Long Boom Lifting Capacity

Unit: metric ton

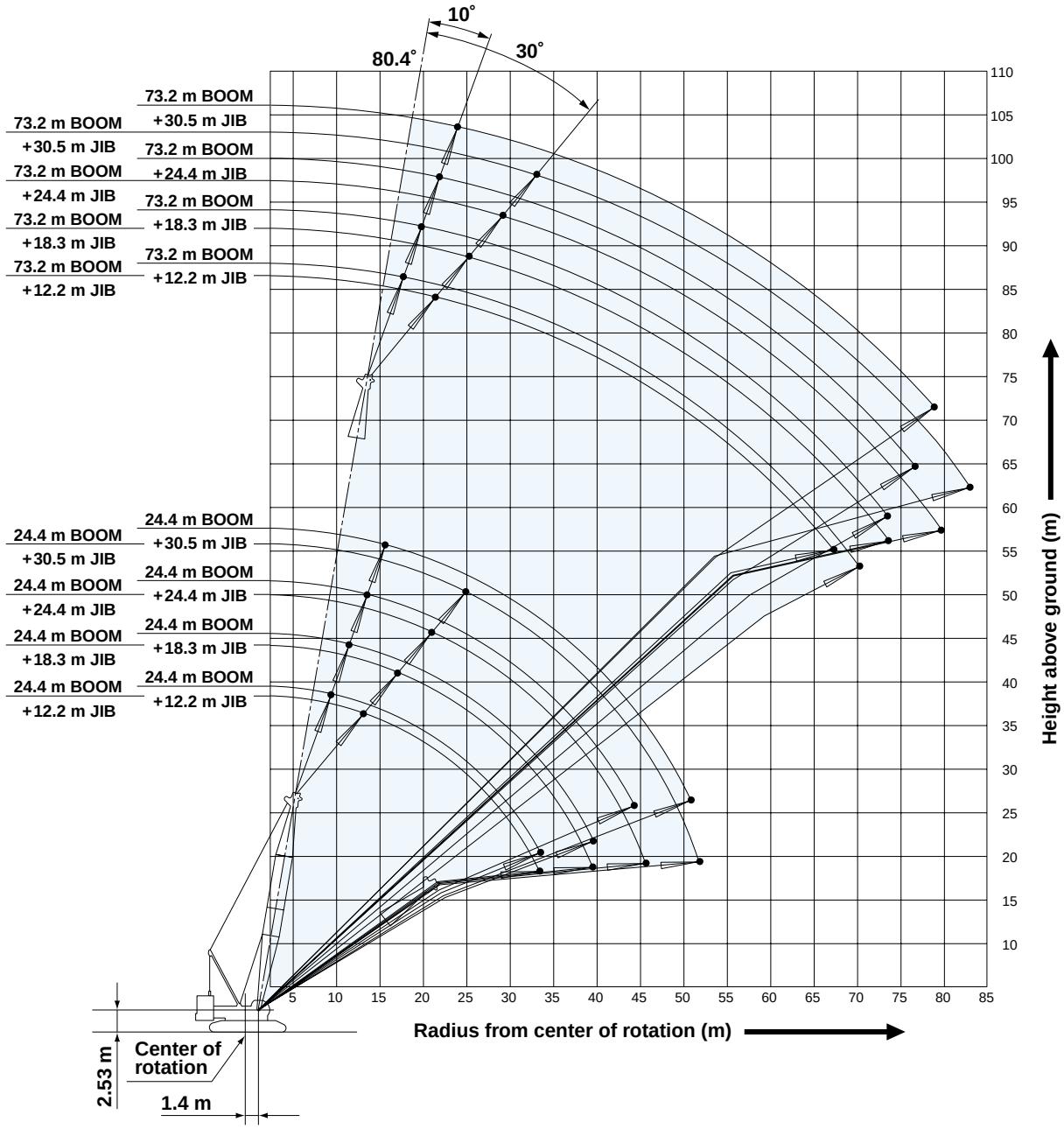
**Counterweight: 60.0 t,**
**Carbody weight: 20.0 t**

| Working radius (m) \ Boom Length (m) | 61.0 | 64.0 | 67.1 | 70.1 | 73.2 | 76.2 | 79.2 | 82.3 | 85.3 | Boom Length (m) \ Working radius (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| **10.0** | 11.9m /40.1 | | | | | | | | | **10.0** |
| **12.0** | 40.1 | 12.4m /37.8 | 12.9m /35.0 | 13.4m /33.2 | 13.9m /31.6 | | | | | **12.0** |
| **14.0** | 37.2 | 35.8 | 34.5 | 32.8 | 31.5 | 14.4m /27.9 | 14.9m /23.9 | 15.5m /20.7 | | **14.0** |
| **16.0** | 34.1 | 33.1 | 32.1 | 30.6 | 29.5 | 26.5 | 23.2 | 20.4 | 20.3 | **16.0** |
| **18.0** | 31.0 | 30.3 | 29.6 | 28.4 | 27.5 | 24.9 | 21.9 | 19.4 | 19.3 | **18.0** |
| **20.0** | 27.9 | 27.4 | 27.1 | 26.2 | 25.5 | 23.3 | 20.6 | 18.4 | 18.3 | **20.0** |
| **22.0** | 24.9 | 24.7 | 24.5 | 24.0 | 23.5 | 21.7 | 19.5 | 17.4 | 17.3 | **22.0** |
| **24.0** | 22.1 | 22.0 | 21.9 | 21.8 | 21.5 | 20.1 | 18.3 | 16.4 | 16.4 | **24.0** |
| **26.0** | 19.8 | 19.7 | 19.6 | 19.6 | 19.5 | 18.5 | 17.1 | 15.5 | 15.5 | **26.0** |
| **28.0** | 17.9 | 17.8 | 17.7 | 17.6 | 17.5 | 17.0 | 16.0 | 14.7 | 14.7 | **28.0** |
| **30.0** | 16.3 | 16.2 | 16.1 | 16.0 | 15.9 | 15.5 | 14.9 | 13.9 | 13.9 | **30.0** |
| **32.0** | 14.9 | 14.8 | 14.6 | 14.6 | 14.5 | 14.1 | 13.7 | 13.0 | 13.0 | **32.0** |
| **34.0** | 13.6 | 13.5 | 13.4 | 13.4 | 13.2 | 12.9 | 12.8 | 12.3 | 12.3 | **34.0** |
| **36.0** | 12.6 | 12.5 | 12.3 | 12.3 | 12.2 | 11.9 | 11.8 | 11.5 | 11.5 | **36.0** |
| **38.0** | 11.6 | 11.5 | 11.4 | 11.3 | 11.2 | 10.9 | 10.9 | 10.8 | 10.8 | **38.0** |
| **40.0** | 10.8 | 10.7 | 10.5 | 10.5 | 10.4 | 10.1 | 10.0 | 10.0 | 10.0 | **40.0** |
| **42.0** | 10.0 | 9.9 | 9.8 | 9.7 | 9.6 | 9.4 | 9.3 | 9.3 | 9.3 | **42.0** |
| **44.0** | 9.3 | 9.2 | 9.1 | 9.0 | 8.9 | 8.7 | 8.6 | 8.6 | 8.6 | **44.0** |
| **46.0** | 8.7 | 8.6 | 8.5 | 8.4 | 8.3 | 8.1 | 8.0 | 8.0 | 8.0 | **46.0** |
| **48.0** | 8.2 | 8.0 | 7.9 | 7.9 | 7.7 | 7.5 | 7.4 | 7.4 | 7.4 | **48.0** |
| **50.0** | 7.7 | 7.5 | 7.4 | 7.3 | 7.2 | 7.0 | 6.9 | 6.9 | 6.9 | **50.0** |
| **52.0** | 7.2 | 7.1 | 6.9 | 6.9 | 6.7 | 6.5 | 6.5 | 6.5 | 6.5 | **52.0** |
| **54.0** | 6.8 | 6.6 | 6.5 | 6.4 | 6.3 | 6.1 | 6.0 | 6.0 | 6.0 | **54.0** |
| **56.0** | 54.5m /6.7 | 6.3 | 6.1 | 6.1 | 5.9 | 5.7 | 5.7 | 5.7 | 5.6 | **56.0** |
| **58.0** | | 57.2m /6.0 | 5.8 | 5.7 | 5.6 | 5.4 | 5.3 | 5.3 | 5.2 | **58.0** |
| **60.0** | | | 59.8m /5.5 | 5.4 | 5.2 | 5.0 | 5.0 | 5.0 | 4.8 | **60.0** |
| **62.0** | | | | 5.0 | 4.9 | 4.7 | 4.6 | 4.6 | 4.4 | **62.0** |
| **64.0** | | | | 62.4m /5.0 | 4.6 | 4.4 | 4.4 | 4.3 | 4.1 | **64.0** |
| **66.0** | | | | | 65.1m /4.5 | 4.2 | 4.1 | 4.0 | 3.8 | **66.0** |
| **68.0** | | | | | | 67.7m /3.9 | 3.8 | 3.7 | 3.5 | **68.0** |
| **70.0** | | | | | | | 3.5 | 3.5 | 3.2 | **70.0** |
| **72.0** | | | | | | | 70.4m /3.4 | 3.2 | 3.0 | **72.0** |
| **74.0** | | | | | | | | 73.0m /3.1 | 2.8 | **74.0** |
| **76.0** | | | | | | | | | 75.6m /2.6 | **76.0** |
| **reeves** | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | **reeves** |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P16.

# Fixed Jib Working Ranges

## Jib Offset Angle: 10°, 30°




**NOTES:**

1. Ratings according to EN 13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block (s), slings and all other load handling accessories from fixed jib ratings shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/ jib inserts and guy lines must be arranged as shown in the “Operator's Manual”.
9. Boom hoist reeving is 16 part line.
10. Gantry must be in raised position for all conditions.
11. Boom backstops are required for all boom lengths.
12. Ratings shown in [ ] are determined by the strength of the boom The boom shcigd be crecled over the fnnt of the crowlers, not loterally or other structural component.
13. The boom should be erected over the front of the crawlers, not laterally.
14. Instruction in the “Operator's Manual” must be strictly observed when operating the machine.
15. Fixed jib ratings: Deduct weight of hook block (s), slings, and all other load handling accessories from jib ratings shown.
16. Boom lengths for jib mounting are 24.4 m to 73.2 m.

# Fixed Jib Lifting Capacities (Without Main Hook)

## Jib Offset Angle: 10°

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

| Boom length (m) | 24.4 | | | | 33.5 | | | | 42.7 | | | | 51.8 | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | Jib length (m) |
| 9.0 | 9.8m/26.8 | | | | | | | | | | | | | | | | 9.0 |
| 10.0 | 26.8 | 11.0m/19.5 | | | 11.0m/26.8 | | | | | | | | | | | | 10.0 |
| 12.0 | 26.5 | 19.3 | 12.8m/10.1 | | 26.3 | 12.8m/19.4 | | | 12.2m/26.8 | | | | | | | | 12.0 |
| 14.0 | 23.1 | 18.9 | 9.9 | 14.0m/6.1 | 24.3 | 19.1 | 14.6m/10.1 | | 26.0 | 14.6m/19.3 | | | 14.0m/26.8 | | | | 14.0 |
| 16.0 | 20.7 | 18.1 | 9.7 | 5.9 | 22.8 | 18.7 | 9.9 | 16.8m/6.0 | 24.6 | 19.1 | 16.8m/10.0 | | 26.0 | 16.8m/19.2 | | | 16.0 |
| 18.0 | 19.2 | 17.5 | 9.5 | 5.8 | 21.4 | 18.2 | 9.7 | 5.9 | 23.2 | 18.6 | 9.9 | 18.3m/ 6.0 | 24.6 | 18.9 | 18.3m/ 9.9 | 19.8m/6.0 | 18.0 |
| 20.0 | 18.0 | 16.2 | 9.3 | 5.6 | 20.1 | 17.6 | 9.5 | 5.8 | 21.9 | 18.1 | 9.7 | 5.9 | 23.4 | 18.5 | 9.8 | 6.0 | 20.0 |
| 22.0 | 16.9 | 14.3 | 8.8 | 5.3 | 19.1 | 16.7 | 9.3 | 5.6 | 20.8 | 17.7 | 9.5 | 5.8 | 22.3 | 18.1 | 9.7 | 5.9 | 22.0 |
| 24.0 | 16.0 | 13.2 | 8.4 | 5.0 | 18.1 | 15.4 | 9.0 | 5.4 | 19.8 | 17.2 | 9.4 | 5.7 | 21.3 | 17.8 | 9.5 | 5.8 | 24.0 |
| 26.0 | 15.2 | 12.2 | 8.1 | 4.8 | 17.1 | 14.3 | 8.7 | 5.2 | 18.9 | 16.1 | 9.2 | 5.5 | 20.0 | 17.4 | 9.4 | 5.6 | 26.0 |
| 28.0 | 14.4 | 11.3 | 7.8 | 4.6 | 16.4 | 13.3 | 8.3 | 4.9 | 18.0 | 15.1 | 8.8 | 5.3 | 18.1 | 16.7 | 9.3 | 5.5 | 28.0 |
| 30.0 | 13.7 | 10.6 | 7.4 | 4.4 | 15.7 | 12.5 | 8.0 | 4.7 | 16.8 | 14.2 | 8.6 | 5.0 | 16.4 | 15.7 | 9.0 | 5.3 | 30.0 |
| 34.0 | 33.5m/12.7 | 9.4 | 6.9 | 4.0 | 14.5 | 11.1 | 7.5 | 4.4 | 14.2 | 12.6 | 8.0 | 4.7 | 13.7 | 13.9 | 8.5 | 4.9 | 34.0 |
| 38.0 | | 8.4 | 6.5 | 3.7 | 12.7 | 10.0 | 7.1 | 4.0 | 12.2 | 11.4 | 7.6 | 4.4 | 11.6 | 11.8 | 8.0 | 4.6 | 38.0 |
| 42.0 | | 39.6m/8.2 | 6.2 | 3.4 | 39.6m/12.0 | 9.1 | 6.7 | 3.8 | 10.5 | 10.4 | 7.2 | 4.1 | 9.9 | 10.2 | 7.6 | 4.4 | 42.0 |
| 46.0 | | | 44.2m/6.1 | 3.2 | | 45.7m/8.4 | 6.4 | 3.5 | 9.2 | 9.4 | 6.8 | 3.9 | 8.6 | 8.8 | 7.3 | 4.1 | 46.0 |
| 50.0 | | | | 3.0 | | | 6.1 | 3.3 | 48.8m/8.4 | 8.3 | 6.5 | 3.6 | 7.5 | 7.7 | 6.9 | 3.9 | 50.0 |
| 54.0 | | | | 50.3m/3.0 | | | 51.8m/6.1 | 3.2 | | 7.3 | 6.3 | 3.4 | 6.5 | 6.8 | 6.7 | 3.7 | 54.0 |
| 58.0 | | | | | | | | 57.9m/3.0 | | 54.9m/7.1 | 6.1 | 3.3 | 57.9m/5.8 | 5.9 | 6.2 | 3.5 | 58.0 |
| 62.0 | | | | | | | | | | | 61.0m/6.0 | 3.1 | | 61.0m/5.4 | 5.5 | 3.4 | 62.0 |
| 66.0 | | | | | | | | | | | | 3.0 | | | 4.9 | 3.2 | 66.0 |
| 70.0 | | | | | | | | | | | | 67.1m/3.0 | | | 67.1m/4.7 | 3.1 | 70.0 |
| 74.0 | | | | | | | | | | | | | | | | 73.2m/3.0 | 74.0 |
| Reeves | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | Reeves |

Working radius (m)

| Boom length (m) | 61.0 | | | | 70.1 | | | | 73.2 | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | Jib length (m) |
| 16.0 | 16.8m/26.6 | | | | 16.8m/21.7 | | | | | | | | 16.0 |
| 18.0 | 25.9 | 18.3m/19.1 | 19.8m/9.9 | | 21.4 | 19.8m/19.1 | | | 18.3m/19.1 | 19.8m/18.7 | | | 18.0 |
| 20.0 | 24.7 | 18.8 | 9.9 | 21.3m/6.0 | 21.0 | 19.1 | 21.3m/9.9 | | 18.8 | 18.7 | 21.3m/9.9 | | 20.0 |
| 22.0 | 23.6 | 18.5 | 9.8 | 5.9 | 20.6 | 18.7 | 9.9 | 22.9m/5.9 | 18.4 | 18.3 | 9.9 | 22.9m/6.0 | 22.0 |
| 24.0 | 21.8 | 18.1 | 9.7 | 5.9 | 20.2 | 18.4 | 9.8 | 5.9 | 18.0 | 17.9 | 9.8 | 5.9 | 24.0 |
| 26.0 | 19.6 | 17.8 | 9.5 | 5.7 | 19.1 | 18.1 | 9.7 | 5.8 | 17.6 | 17.5 | 9.7 | 5.8 | 26.0 |
| 28.0 | 17.6 | 17.3 | 9.4 | 5.6 | 17.1 | 17.4 | 9.5 | 5.7 | 16.9 | 16.9 | 9.5 | 5.7 | 28.0 |
| 30.0 | 15.9 | 16.1 | 9.3 | 5.5 | 15.4 | 15.7 | 9.4 | 5.6 | 15.2 | 15.6 | 9.4 | 5.6 | 30.0 |
| 34.0 | 13.2 | 13.4 | 8.8 | 5.2 | 12.7 | 13.0 | 9.2 | 5.4 | 12.5 | 12.8 | 9.2 | 5.4 | 34.0 |
| 38.0 | 11.1 | 11.3 | 8.4 | 4.9 | 10.6 | 10.9 | 8.7 | 5.1 | 10.4 | 10.7 | 8.8 | 5.2 | 38.0 |
| 42.0 | 9.4 | 9.7 | 8.0 | 4.6 | 8.9 | 9.2 | 8.3 | 4.8 | 8.8 | 9.0 | 8.4 | 4.9 | 42.0 |
| 46.0 | 8.0 | 8.3 | 7.6 | 4.4 | 7.6 | 7.8 | 7.9 | 4.6 | 7.3 | 7.6 | 8.0 | 4.6 | 46.0 |
| 50.0 | 6.9 | 7.2 | 7.3 | 4.1 | 6.5 | 6.7 | 7.1 | 4.3 | 6.3 | 6.5 | 6.8 | 4.4 | 50.0 |
| 54.0 | 6.0 | 6.2 | 6.5 | 3.9 | 5.5 | 5.8 | 6.1 | 4.1 | 5.3 | 5.5 | 5.9 | 4.2 | 54.0 |
| 58.0 | 5.2 | 5.4 | 5.7 | 3.7 | 4.6 | 4.9 | 5.3 | 3.9 | 4.4 | 4.6 | 5.1 | 4.0 | 58.0 |
| 62.0 | 4.4 | 4.7 | 5.0 | 3.5 | 3.8 | 4.1 | 4.5 | 3.8 | 3.5 | 3.8 | 4.2 | 3.8 | 62.0 |
| 66.0 | 64.0m/4.1 | 4.0 | 4.4 | 3.4 | 3.1 | 3.4 | 3.8 | 3.6 | 2.8 | 3.0 | 3.5 | 3.6 | 66.0 |
| 70.0 | | 3.4 | 3.7 | 3.3 | 2.4 | 2.7 | 3.1 | 3.3 | 2.1 | 2.4 | 2.8 | 2.9 | 70.0 |
| 74.0 | | 70.1m/3.4 | 3.1 | 3.2 | 73.2m/2.0 | 2.1 | 2.5 | 2.7 | 70.1m/2.1 | 73.2m/2.0 | 2.3 | 2.4 | 74.0 |
| 78.0 | | | 76.2m/2.9 | 2.8 | | 76.2m/1.9 | 2.0 | 2.2 | | | 76.2m/2.0 | 77.7m/2.0 | 78.0 |
| 82.0 | | | | 2.3 | | | 79.2m/1.9 | 80.8m/1.9 | | | | | 82.0 |
| 86.0 | | | | 82.3m/2.3 | | | | | | | | | 86.0 |
| Reeves | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | 2 | 2 | 1 | 1 | Reeves |

Working radius (m)

Note: Ratings according to EN13000.

Ratings shown in [ ] are determined by the strength of the boom or other structural components.

Refer to notes P18.

Unit: metric ton

## Jib Offset Angle: 30°

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

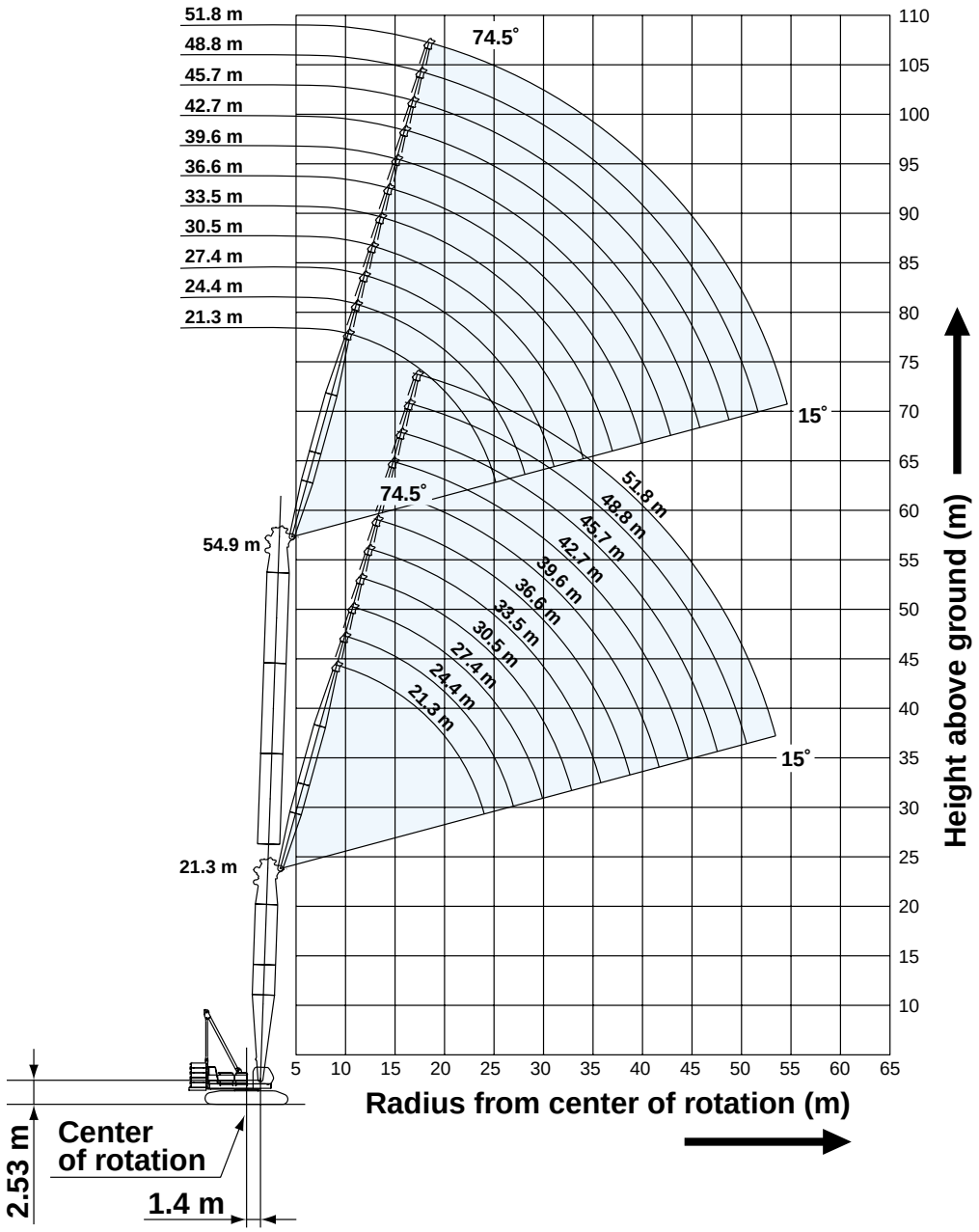
| Boom length (m) | | 24.4 | | | | 33.5 | | | | 42.7 | | | | 51.8 | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | Jib length (m) |
| Working radius (m) | 12.0 | 13.4m/17.2 | | | | | | | | | | | | | | | | 12.0 |
| | 14.0 | 17.2 | | | | 14.6m/17.2 | | | | | | | | | | | | 14.0 |
| | 16.0 | 16.0 | 16.8m/12.8 | | | 16.8 | | | | 16.8m/17.1 | | | | | | | | 16.0 |
| | 18.0 | 15.2 | 12.2 | | | 16.1 | 18.3m/12.8 | | | 16.7 | 19.8m/12.8 | | | 18.3m/17.1 | | | | 18.0 |
| | 20.0 | 14.3 | 11.2 | 21.3m/7.5 | | 15.6 | 12.1 | | | 16.1 | 12.8 | | | 16.6 | 21.3m/12.8 | | | 20.0 |
| | 22.0 | 13.5 | 10.5 | 7.4 | | 14.8 | 11.4 | 22.9m/7.5 | | 15.7 | 12.1 | | | 16.2 | 12.6 | | | 22.0 |
| | 24.0 | 12.7 | 9.8 | 7.2 | 24.4m/4.1 | 14.1 | 10.8 | 7.4 | 25.9m/4.1 | 15.2 | 11.4 | 24.4m/7.5 | | 15.8 | 12.0 | 25.9m/7.5 | | 24.0 |
| | 26.0 | 12.1 | 9.3 | 7.0 | 4.0 | 13.4 | 10.2 | 7.2 | 4.1 | 14.5 | 10.9 | 7.4 | 27.4m/4.1 | 15.3 | 11.5 | 7.5 | | 26.0 |
| | 28.0 | 11.6 | 8.8 | 6.8 | 3.9 | 12.8 | 9.7 | 7.0 | 4.0 | 13.9 | 10.4 | 7.2 | 4.1 | 14.8 | 11.0 | 7.4 | 29.0m/4.1 | 28.0 |
| | 30.0 | 11.2 | 8.3 | 6.5 | 3.7 | 12.3 | 9.2 | 6.8 | 3.9 | 13.4 | 9.9 | 7.1 | 4.0 | 14.2 | 10.5 | 7.2 | 4.0 | 30.0 |
| | 34.0 | 33.5m/10.6 | 7.6 | 5.9 | 3.4 | 11.5 | 8.4 | 6.4 | 3.6 | 12.5 | 9.1 | 6.8 | 3.8 | 13.3 | 9.8 | 6.9 | 3.9 | 34.0 |
| | 38.0 | | 7.1 | 5.4 | 3.3 | 36.6m/11.1 | 7.8 | 5.9 | 3.4 | 11.7 | 8.5 | 6.4 | 3.5 | 11.9 | 9.1 | 6.7 | 3.7 | 38.0 |
| | 42.0 | | 39.6m/7.0 | 5.0 | 3.1 | | 7.4 | 5.5 | 3.3 | 10.7 | 8.0 | 5.9 | 3.4 | 10.2 | 8.6 | 6.3 | 3.5 | 42.0 |
| | 46.0 | | | 45.7m/4.8 | 3.0 | | 42.7m/7.3 | 5.2 | 3.1 | 45.7m/9.4 | 7.5 | 5.6 | 3.3 | 8.8 | 8.1 | 5.9 | 3.4 | 46.0 |
| | 50.0 | | | | 2.9 | | | 48.8m/5.0 | 3.0 | | 7.2 | 5.3 | 3.1 | 7.6 | 7.7 | 5.6 | 3.2 | 50.0 |
| | 54.0 | | | | 51.8m/2.9 | | | | 2.9 | | 51.8m/7.1 | 5.0 | 3.0 | 51.8m/7.2 | 7.1 | 5.4 | 3.2 | 54.0 |
| | 58.0 | | | | | | | | 54.9m/2.9 | | | 57.9m/4.9 | 2.9 | | 57.9m/6.2 | 5.1 | 3.0 | 58.0 |
| | 62.0 | | | | | | | | | | | | 2.9 | | | 4.9 | 3.0 | 62.0 |
| | 66.0 | | | | | | | | | | | | 64.0m/2.9 | | | 64.0m/4.9 | 2.9 | 66.0 |
| | 70.0 | | | | | | | | | | | | | | | | 2.9 | 70.0 |
| | 74.0 | | | | | | | | | | | | | | | | 70.1m/2.9 | 74.0 |
| | Reeves | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | Reeves |

| Boom length (m) | | 61.0 | | | | 70.1 | | | | 73.2 | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | 12.2 | 18.3 | 24.4 | 30.5 | Jib length (m) |
| Working radius (m) | 18.0 | 19.8m/17.1 | | | | | | | | | | | | 18.0 |
| | 20.0 | 17.0 | | | | 21.3m/17.1 | | | | 21.3m/17.2 | | | | 20.0 |
| | 22.0 | 16.6 | 22.9m/12.8 | | | 16.9 | | | | 17.1 | | | | 22.0 |
| | 24.0 | 16.2 | 12.5 | | | 16.6 | 24.4m/13.2 | | | 16.7 | 25.9m/12.9 | | | 24.0 |
| | 26.0 | 15.9 | 12.0 | 27.4m/7.5 | | 16.2 | 12.8 | | | 16.4 | 12.9 | | | 26.0 |
| | 28.0 | 15.5 | 11.5 | 7.5 | | 15.9 | 12.3 | 29.0m/7.5 | | 16.0 | 12.4 | 29.0m/7.6 | | 28.0 |
| | 30.0 | 15.0 | 11.0 | 7.3 | 30.5m/4.1 | 15.6 | 11.8 | 7.5 | 32.0m/4.1 | 15.6 | 12.0 | 7.5 | 32.0m/4.1 | 30.0 |
| | 34.0 | 13.6 | 10.3 | 7.1 | 3.9 | 13.2 | 11.1 | 7.2 | 4.0 | 13.1 | 11.2 | 7.3 | 4.0 | 34.0 |
| | 38.0 | 11.4 | 9.6 | 6.8 | 3.8 | 11.1 | 10.4 | 7.0 | 3.8 | 10.9 | 10.5 | 7.0 | 3.9 | 38.0 |
| | 42.0 | 9.7 | 9.1 | 6.6 | 3.6 | 9.3 | 9.8 | 6.8 | 3.7 | 9.1 | 9.8 | 6.8 | 3.7 | 42.0 |
| | 46.0 | 8.3 | 8.6 | 6.3 | 3.4 | 7.9 | 8.5 | 6.6 | 3.5 | 7.7 | 8.3 | 6.7 | 3.6 | 46.0 |
| | 50.0 | 7.1 | 7.6 | 5.9 | 3.4 | 6.7 | 7.3 | 6.4 | 3.4 | 6.5 | 7.1 | 6.5 | 3.4 | 50.0 |
| | 54.0 | 6.2 | 6.6 | 5.7 | 3.3 | 5.8 | 6.3 | 6.1 | 3.4 | 5.6 | 6.1 | 6.2 | 3.4 | 54.0 |
| | 58.0 | 57.9m/5.3 | 5.8 | 5.4 | 3.1 | 4.9 | 5.4 | 5.7 | 3.2 | 4.6 | 5.2 | 5.6 | 3.3 | 58.0 |
| | 62.0 | | 5.0 | 5.2 | 3.0 | 4.0 | 4.6 | 4.9 | 3.1 | 3.7 | 4.4 | 4.8 | 3.2 | 62.0 |
| | 66.0 | | 64.0m/4.7 | 4.6 | 3.0 | 3.2 | 3.8 | 4.2 | 3.1 | 2.9 | 3.6 | 4.0 | 3.1 | 66.0 |
| | 70.0 | | | 4.0 | 2.9 | 67.1m/3.0 | 3.1 | 3.5 | 3.0 | 67.1m/2.8 | 2.9 | 3.3 | 3.0 | 70.0 |
| | 74.0 | | | 70.1m/4.0 | 2.9 | | 73.2m/2.6 | 2.9 | 2.9 | | 73.2m/2.4 | 2.6 | 2.9 | 74.0 |
| | 78.0 | | | | 76.2m/2.9 | | | 2.3 | 2.6 | | | 2.0 | 2.4 | 78.0 |
| | 82.0 | | | | | | | 79.2m/2.1 | 2.0 | | | 79.2m/1.9 | 1.8 | 82.0 |
| | 84.0 | | | | | | | | 83.8m/1.8 | | | | 82.3m/1.8 | 84.0 |
| | Reeves | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | Reeves |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P18.

# Luffing Jib Working Ranges

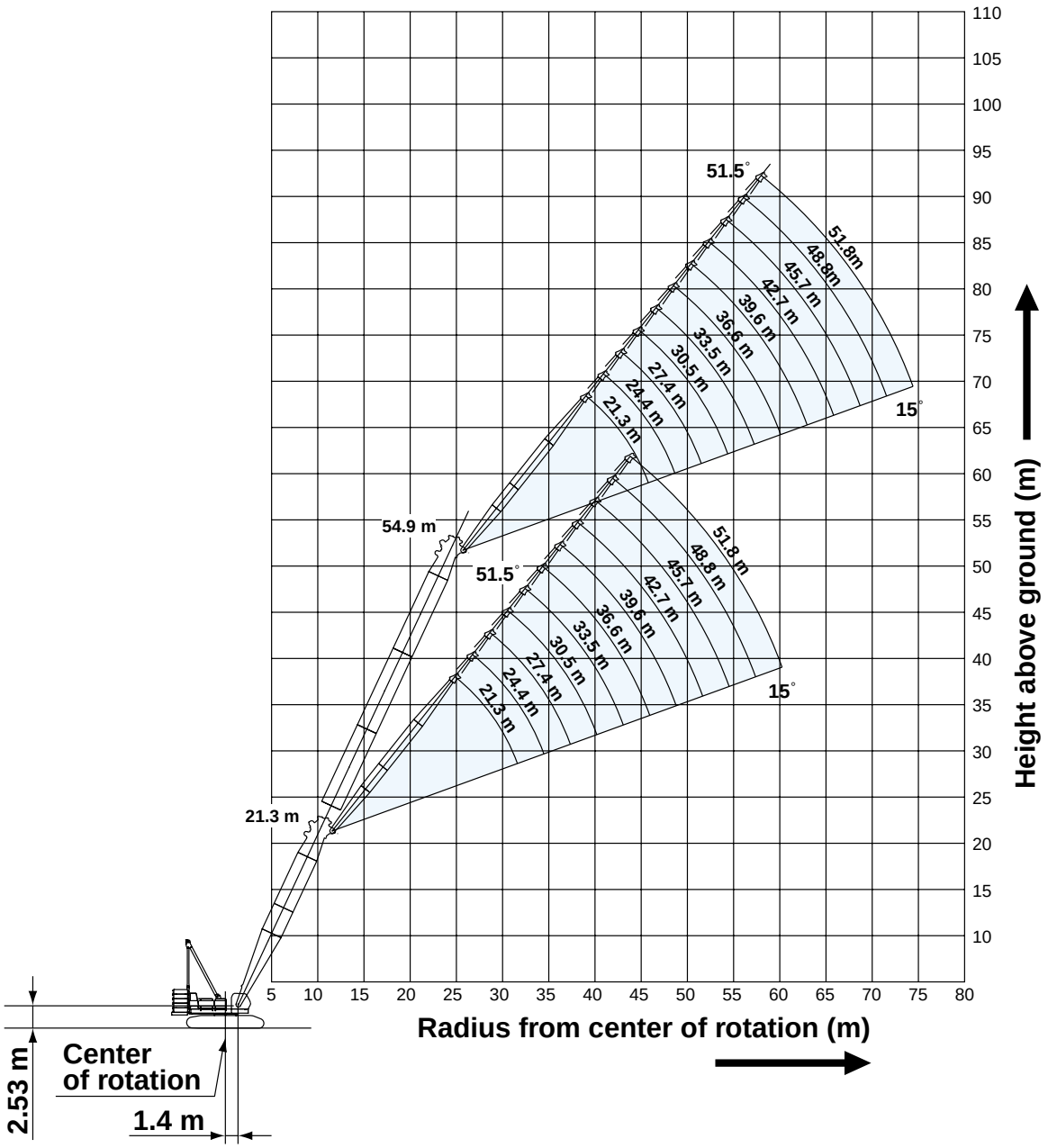
## Boom Angle: 88°




**NOTES:**

1. Ratings according to EN13000.
2. Ratings in metric tons for 360° working area.
3. Operating radius is the horizontal distance from center of rotation to a vertical line through the center of gravity of the load.
4. Deduct weight of hook block(s), slings and all other load handling accessories from luffing jib ratings or main boom ratings with luffing jib shown.
5. Ratings shown are based on freely suspended loads and make no allowance for such factors as wind effect on lifted load, ground conditions out-of-level, operating speeds or any other condition that could be detrimental to the safe operation of this equipment. Operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
6. Ratings are for operation on a firm and level surface, up to 1% gradient.
7. At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
8. Boom/jib inserts and guy lines must be arranged as shown in the “Operator's Manual”.
9. Luffing boom hoist reeving is 16 part line.
10. Jib hoist reeving is 8 part line.

## Boom Angle: 60°




11. Gantry must be in raised position for all conditions.
12. Boom and jib backstops are required for all boom and jib combinations.
13. Ratings shown in ▭ are determined by the strength of the boom or other structural component.
14. The boom should be erected over the front of crawlers, not laterally.
15. When erecting and lowering the all boom and jib combinations, the pillow plate for erection must be placed at the end of crawlers.
16. Instruction in the “Operator's Manual” must be strictly observed when operating the machine.
17. The minimum rated load is 2.0 tons.
18. Luffing jib ratings: Deduct weight of hook block(s), slings, and all other load handling accessories from luffing jib ratings shown.
19. Main boom ratings with luffing jib: Deduct weight of hook block(s), slings, and all other load handling accessories from main boom ratings with luffing jib shown.

# Luffing Jib Lifting Capacities (Without Main Hook)

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

21.3 m Boom Length

| Boom length (m) | | 21.3 | | | | | | | | | | | | | | | | Boom length (m) | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) | |
| Boom angle | | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle | |
| Working radius (m) | 9.14 | 48.6 | | | | | | | | | | | | | | | | 9.14 | Working radius (m) |
| | 10.0 | 48.3 | | | | | | | | | | | | | | | | 10.0 | |
| | 12.0 | 47.7 | | | | 47.4 | | | | | | | | | | | | 12.0 | |
| | 14.0 | 43.3 | 47.4 | | | 43.2 | | | | 42.9 | | | | 34.6 | | | | 14.0 | |
| | 16.0 | 35.8 | 40.9 | | | 35.7 | 40.7 | | | 35.4 | | | | 33.5 | | | | 16.0 | |
| | 18.0 | 30.4 | 35.1 | | | 30.2 | 34.9 | | | 30.0 | 34.7 | | | 29.7 | | | | 18.0 | |
| | 20.0 | 26.2 | 30.2 | | | 26.2 | 30.1 | | | 25.9 | 30.3 | | | 25.6 | 30.0 | | | 20.0 | |
| | 22.0 | 23.0 | 26.1 | | | 22.9 | 26.0 | | | 22.7 | 26.1 | | | 22.4 | 25.9 | | | 22.0 | |
| | 24.0 | | 22.9 | | | 20.4 | 22.8 | | | 20.1 | 22.9 | | | 19.9 | 22.7 | | | 24.0 | |
| | 26.0 | | | 20.3 | | 18.2 | 20.3 | | | 18.0 | 20.3 | | | 17.7 | 20.1 | | | 26.0 | |
| | 28.0 | | | 18.6 | | 16.5 | 18.2 | | | 16.2 | 18.2 | | | 16.0 | 17.9 | | | 28.0 | |
| | 30.0 | | | 17.1 | 16.7 | | 16.4 | 16.7 | | 14.7 | 16.4 | | | 14.5 | 16.2 | | | 30.0 | |
| | 34.0 | | | | 32.0m/15.4 | | | 14.3 | 13.8 | 32.0m/13.4 | 13.6 | 13.9 | | 12.1 | 13.4 | | | 34.0 | |
| | 38.0 | | | | | | | 36.0m/13.3 | 12.1 | | 36.0m/12.5 | 12.2 | 11.7 | 10.3 | 11.2 | 11.8 | | 38.0 | |
| | 42.0 | | | | | | | | | | | 10.7 | 10.5 | | 9.6 | 10.5 | 10.0 | 42.0 | |
| | 46.0 | | | | | | | | | | | | 44.0m/9.8 | | | 9.3 | 9.0 | 46.0 | |
| | 50.0 | | | | | | | | | | | | | | | 48.0m/8.8 | 8.1 | 50.0 | |
| | Reeves | 4 | | | | 4 | | | | 4 | | | | 3 | | | | Reeves | |

| Boom length (m) | | 21.3 | | | | | | | | Boom length (m) | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 45.7 | | | | 51.8 | | | | Jib length (m) | |
| Boom angle | | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle | |
| Working radius (m) | 18.0 | 22.9 | | | | | | | | 18.0 | Working radius (m) |
| | 20.0 | 21.2 | | | | 16.3 | | | | 20.0 | |
| | 22.0 | 19.8 | 21.5 | | | 15.1 | | | | 22.0 | |
| | 24.0 | 18.4 | 19.7 | | | 14.1 | | | | 24.0 | |
| | 26.0 | 17.3 | 18.4 | | | 13.0 | 14.0 | | | 26.0 | |
| | 28.0 | 15.9 | 17.3 | | | 12.3 | 13.1 | | | 28.0 | |
| | 30.0 | 14.4 | 16.2 | | | 11.5 | 12.3 | | | 30.0 | |
| | 34.0 | 12.0 | 13.3 | | | 10.2 | 10.8 | | | 34.0 | |
| | 38.0 | 10.1 | 11.2 | | | 9.1 | 9.6 | | | 38.0 | |
| | 42.0 | 8.6 | 9.5 | 10.0 | | 8.2 | 8.6 | | | 42.0 | |
| | 46.0 | 44.0m/8.0 | 8.2 | 9.1 | 8.5 | 7.3 | 7.7 | 8.7 | | 46.0 | |
| | 50.0 | | 48.0m/7.6 | 8.1 | 7.8 | 6.3 | 6.8 | 7.8 | 52.0m/7.1 | 50.0 | |
| | 54.0 | | | 7.2 | 7.0 | | 52.0m/6.3 | 6.9 | 6.6 | 54.0 | |
| | 58.0 | | | | 56.0m/6.6 | | | 58.0m/6.2 | 6.0 | 58.0 | |
| | 62.0 | | | | | | | | 5.4 | 62.0 | |
| | Reeves | 2 | | | | 2 | | | | Reeves | |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

27.4 m Boom Length

| Boom length (m) | 27.4 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| 10.0 | 47.4 | | | | | | | | | | | | | | | | 10.0 |
| 12.0 | 47.4 | | | | 47.4 | | | | | | | | | | | | 12.0 |
| 14.0 | 44.6 | 47.4 | | | 44.5 | | | | 44.2 | | | | 34.6 | | | | 14.0 |
| 16.0 | 36.7 | 40.6 | | | 36.6 | | | | 36.4 | | | | 33.7 | | | | 16.0 |
| 18.0 | 31.0 | 34.8 | | | 30.9 | 34.6 | | | 30.7 | | | | 30.5 | | | | 18.0 |
| 20.0 | 26.7 | 30.4 | | | 26.7 | 30.2 | | | 26.5 | 30.0 | | | 26.2 | 29.7 | | | 20.0 |
| 22.0 | 23.4 | 26.9 | | | 23.4 | 26.7 | | | 23.1 | 26.6 | | | 22.9 | 26.4 | | | 22.0 |
| 24.0 | | 24.1 | | | 20.7 | 23.9 | | | 20.5 | 23.8 | | | 20.2 | 23.6 | | | 24.0 |
| 26.0 | | 21.2 | | | 18.5 | 21.3 | | | 18.3 | 21.4 | | | 18.0 | 21.1 | | | 26.0 |
| 28.0 | | | | | 16.7 | 19.0 | | | 16.5 | 19.1 | | | 16.2 | 18.8 | | | 28.0 |
| 30.0 | | | 16.4 | | | 17.1 | | | 14.9 | 17.1 | | | 14.7 | 16.9 | | | 30.0 |
| 34.0 | | | 32.0m/15.1 | 13.5 | | | 13.7 | | 32.0m/13.6 | 14.1 | 36.0m/12.2 | | 12.2 | 13.9 | | | 34.0 |
| 38.0 | | | | 36.0m/12.6 | | | 11.9 | 11.5 | | 36.0m/12.9 | 11.7 | 40.0m/10.2 | 10.3 | 11.7 | 40.0m/10.4 | | 38.0 |
| 42.0 | | | | | | | | 40.0m/10.8 | | | 10.2 | 9.8 | | 9.9 | 10.0 | | 42.0 |
| 46.0 | | | | | | | | | | | 44.0m/9.6 | 8.7 | | | 8.8 | 8.5 | 46.0 |
| 50.0 | | | | | | | | | | | | | | | 7.9 | 7.5 | 50.0 |
| 54.0 | | | | | | | | | | | | | | | | 52.0m /7.1 | 54.0 |
| Reeves | 4 | | | | 4 | | | | 4 | | | | 3 | | | | Reeves |

Working radius (m) — Working radius (m)

| Boom length (m) | 27.4 | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| 18.0 | 23.0 | | | | | | | | 18.0 |
| 20.0 | 21.4 | | | | 16.5 | | | | 20.0 |
| 22.0 | 19.9 | | | | 15.2 | | | | 22.0 |
| 24.0 | 18.5 | 20.2 | | | 14.1 | | | | 24.0 |
| 26.0 | 17.4 | 18.9 | | | 13.2 | 14.3 | | | 26.0 |
| 28.0 | 16.2 | 17.7 | | | 12.3 | 13.4 | | | 28.0 |
| 30.0 | 14.6 | 16.6 | | | 11.5 | 12.5 | | | 30.0 |
| 34.0 | 12.1 | 13.9 | | | 10.2 | 11.0 | | | 34.0 |
| 38.0 | 10.2 | 11.6 | | | 9.1 | 9.8 | | | 38.0 |
| 42.0 | 8.7 | 9.9 | 44.0m/8.8 | | 8.2 | 8.8 | | | 42.0 |
| 46.0 | 44.0m/8.1 | 8.4 | 8.6 | | 7.4 | 7.8 | 48.0m/7.6 | | 46.0 |
| 50.0 | | 48.0m/7.8 | 7.6 | 7.2 | 4.5 | 6.9 | 7.3 | | 50.0 |
| 54.0 | | | 6.8 | 6.5 | | 4.4 | 6.5 | 6.2 | 54.0 |
| 58.0 | | | 56.0m/6.4 | 5.8 | | | 5.8 | 5.5 | 58.0 |
| 62.0 | | | | | | | 5.2 | 4.9 | 62.0 |
| 66.0 | | | | | | | | 64.0m/4.6 | 66.0 |
| Reeves | 2 | | | | 2 | | | | Reeves |

Working radius (m) — Working radius (m)

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

**33.5 m Boom Length**

| Boom length (m) | 33.5 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle / Working radius (m) | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle / Working radius (m) |
| 10.0 | 47.4 | | | | | | | | | | | | | | | | 10.0 |
| 12.0 | 47.4 | | | | 47.4 | | | | | | | | | | | | 12.0 |
| 14.0 | 45.7 | 47.4 | | | 45.6 | | | | 42.6 | | | | | | | | 14.0 |
| 16.0 | 37.5 | 40.2 | | | 37.5 | | | | 37.2 | | | | 33.0 | | | | 16.0 |
| 18.0 | 31.6 | 34.4 | | | 31.6 | 34.2 | | | 31.4 | | | | 31.3 | | | | 18.0 |
| 20.0 | 27.2 | 30.1 | | | 27.2 | 30.0 | | | 26.9 | 29.6 | | | 27.2 | | | | 20.0 |
| 22.0 | 23.7 | 26.6 | | | 23.7 | 26.5 | | | 23.5 | 26.3 | | | 23.7 | 25.9 | | | 22.0 |
| 24.0 | | 23.9 | | | 21.0 | 23.8 | | | 20.8 | 23.5 | | | 20.9 | 23.4 | | | 24.0 |
| 26.0 | | 21.5 | | | 18.7 | 21.5 | | | 18.5 | 21.2 | | | 18.6 | 21.1 | | | 26.0 |
| 28.0 | | | | | 16.8 | 19.5 | | | 16.7 | 19.3 | | | 16.7 | 19.2 | | | 28.0 |
| 30.0 | | | 32.0m/14.4 | | | 17.9 | | | 15.1 | 17.7 | | | 15.1 | 17.6 | | | 30.0 |
| 34.0 | | | 13.3 | 36.0m/11.9 | | | 36.0m/12.2 | | 32.0m/13.7 | 14.6 | | | 12.6 | 14.4 | | | 34.0 |
| 38.0 | | | | 11.1 | | | 11.3 | 40.0m/9.8 | | 36.0m/13.3 | 10.7 | | 10.6 | 12.1 | | | 38.0 |
| 42.0 | | | | | | | 40.0m/10.6 | 9.5 | | | 9.7 | 44.0m/8.3 | | 10.2 | 44.0m/8.8 | | 42.0 |
| 46.0 | | | | | | | | 44.0m/8.9 | | | 8.5 | 8.1 | | | 8.3 | 48.0m/7.0 | 46.0 |
| 50.0 | | | | | | | | | | | | 7.2 | | | 7.4 | 6.9 | 50.0 |
| 54.0 | | | | | | | | | | | | | | | 52.0m/7.0 | 6.2 | 54.0 |
| 58.0 | | | | | | | | | | | | | | | | 56.0m/5.9 | 58.0 |
| Reeves | 4 | | | | 4 | | | | 4 | | | | 3 | | | | Reeves |

| Boom length (m) | 33.5 | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | Jib length (m) |
| Boom angle / Working radius (m) | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle / Working radius (m) |
| 18.0 | 23.2 | | | | | | | | 18.0 |
| 20.0 | 21.5 | | | | 16.6 | | | | 20.0 |
| 22.0 | 20.0 | | | | 15.3 | | | | 22.0 |
| 24.0 | 18.6 | 20.9 | | | 14.2 | | | | 24.0 |
| 26.0 | 17.4 | 19.3 | | | 13.2 | 14.7 | | | 26.0 |
| 28.0 | 16.4 | 18.0 | | | 12.3 | 13.7 | | | 28.0 |
| 30.0 | 14.8 | 16.9 | | | 11.6 | 12.8 | | | 30.0 |
| 34.0 | 12.3 | 14.5 | | | 10.3 | 11.2 | | | 34.0 |
| 38.0 | 10.3 | 12.1 | | | 9.1 | 10.0 | | | 38.0 |
| 42.0 | 8.8 | 10.2 | | | 8.2 | 8.9 | | | 42.0 |
| 46.0 | 44.0m/8.1 | 8.7 | 7.6 | | 6.3 | 7.9 | | | 46.0 |
| 50.0 | | 48.0m/8.1 | 7.1 | 52.0m/5.8 | 4.1 | 6.7 | 52.0m/6.4 | | 50.0 |
| 54.0 | | | 6.3 | 5.8 | | 4.1 | 6.0 | | 54.0 |
| 58.0 | | | 5.7 | 5.2 | | | 5.3 | 4.9 | 58.0 |
| 62.0 | | | | 4.6 | | | 4.7 | 4.3 | 62.0 |
| 66.0 | | | | | | | 64.0m/4.5 | 3.8 | 66.0 |
| 70.0 | | | | | | | | 68.0m/3.6 | 70.0 |
| Reeves | 2 | | | | 2 | | | | Reeves |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

39.6 m Boom Length

| Boom length (m) | 39.6 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| 10.0 | 47.4 | | | | | | | | | | | | | | | | 10.0 |
| 12.0 | 47.4 | | | | 47.4 | | | | | | | | | | | | 12.0 |
| 14.0 | 43.4 | | | | 43.0 | | | | 37.7 | | | | | | | | 14.0 |
| 16.0 | 38.1 | 39.7 | | | 37.7 | | | | 37.0 | | | | 29.8 | | | | 16.0 |
| 18.0 | 32.2 | 34.2 | | | 32.1 | | | | 31.9 | | | | 29.3 | | | | 18.0 |
| 20.0 | 27.6 | 29.8 | | | 27.6 | 29.6 | | | 27.4 | 29.2 | | | 27.6 | | | | 20.0 |
| 22.0 | 24.0 | 26.4 | | | 24.1 | 26.2 | | | 23.9 | 25.9 | | | 24.0 | 25.5 | | | 22.0 |
| 24.0 | | 23.7 | | | 21.2 | 23.5 | | | 21.0 | 23.2 | | | 21.2 | 23.1 | | | 24.0 |
| 26.0 | | 21.4 | | | 18.9 | 21.2 | | | 18.7 | 20.9 | | | 18.8 | 20.9 | | | 26.0 |
| 28.0 | | | | | 17.0 | 19.3 | | | 16.8 | 19.0 | | | 16.9 | 19.0 | | | 28.0 |
| 30.0 | | | | | | 17.7 | | | 15.2 | 17.4 | | | 15.3 | 17.4 | | | 30.0 |
| 34.0 | | | 12.4 | | | 32.0m/16.3 | | | 32.0m/13.8 | 14.8 | | | 12.7 | 14.7 | | | 34.0 |
| 38.0 | | | 11.0 | 10.1 | | | 10.4 | | | 12.6 | | | 10.7 | 12.4 | | | 38.0 |
| 42.0 | | | | 9.1 | | | 9.4 | 44.0m/8.2 | | | 8.7 | | | 10.5 | | | 42.0 |
| 46.0 | | | | | | | 44.0m/8.8 | 7.7 | | | 8.0 | 7.1 | | 44.0m/9.7 | 7.7 | | 46.0 |
| 50.0 | | | | | | | | | | | 7.1 | 6.6 | | | 6.9 | 52.0m/5.9 | 50.0 |
| 54.0 | | | | | | | | | | | | 52.0m/6.2 | | | 6.1 | 5.6 | 54.0 |
| 58.0 | | | | | | | | | | | | | | | 56.0m/5.8 | 4.9 | 58.0 |
| Reeves | 4 | | | | 4 | | | | 3 | | | | 3 | | | | Reeves |

Working radius (m)

| Boom length (m) | 39.6 | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| 18.0 | 23.3 | | | | | | | | 18.0 |
| 20.0 | 21.6 | | | | 16.7 | | | | 20.0 |
| 22.0 | 20.1 | | | | 15.4 | | | | 22.0 |
| 24.0 | 18.7 | | | | 14.3 | | | | 24.0 |
| 26.0 | 17.6 | 19.8 | | | 13.2 | 15.1 | | | 26.0 |
| 28.0 | 16.5 | 18.5 | | | 12.3 | 14.0 | | | 28.0 |
| 30.0 | 15.0 | 17.1 | | | 11.6 | 13.1 | | | 30.0 |
| 34.0 | 12.4 | 14.5 | | | 10.3 | 11.5 | | | 34.0 |
| 38.0 | 10.4 | 12.5 | | | 9.2 | 10.2 | | | 38.0 |
| 42.0 | 8.8 | 10.5 | | | 8.2 | 9.1 | | | 42.0 |
| 46.0 | 44.0m/8.2 | 8.9 | | | 6.0 | 8.1 | | | 46.0 |
| 50.0 | | 48.0m/8.3 | 6.5 | | 3.7 | 6.6 | 52.0m/5.6 | | 50.0 |
| 54.0 | | | 5.8 | 56.0m/4.7 | | 3.9 | 5.4 | | 54.0 |
| 58.0 | | | 5.1 | 4.6 | | | 4.8 | 60.0m/3.8 | 58.0 |
| 62.0 | | | 4.6 | 4.0 | | | 4.2 | 3.7 | 62.0 |
| 66.0 | | | | 64.0m/3.8 | | | 3.7 | 3.2 | 66.0 |
| 70.0 | | | | | | | 68.0m/3.5 | 2.8 | 70.0 |
| Reeves | 2 | | | | 2 | | | | Reeves |

Working radius (m)

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

**45.7 m Boom Length**

| Boom length (m) | | 45.7 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle | | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| Working radius (m) | 10.0 | 47.4 | | | | | | | | | | | | | | | | 10.0 |
| | 12.0 | 43.8 | | | | 41.2 | | | | | | | | | | | | 12.0 |
| | 14.0 | 38.3 | | | | 37.5 | | | | 33.0 | | | | | | | | 14.0 |
| | 16.0 | 33.9 | | | | 33.2 | | | | 32.2 | | | | 26.6 | | | | 16.0 |
| | 18.0 | 30.4 | 33.7 | | | 29.6 | | | | 28.9 | | | | 26.1 | | | | 18.0 |
| | 20.0 | 27.5 | 29.5 | | | 26.7 | 29.2 | | | 26.1 | 28.7 | | | 25.5 | | | | 20.0 |
| | 22.0 | 24.3 | 26.1 | | | 24.3 | 25.8 | | | 23.7 | 25.6 | | | 23.1 | | | | 22.0 |
| | 24.0 | | 23.4 | | | 21.4 | 23.1 | | | 21.3 | 22.9 | | | 21.1 | 22.8 | | | 24.0 |
| | 26.0 | | 21.1 | | | 19.1 | 20.9 | | | 19.0 | 20.6 | | | 19.1 | 20.5 | | | 26.0 |
| | 28.0 | | | | | 17.1 | 19.0 | | | 17.1 | 18.7 | | | 17.1 | 18.7 | | | 28.0 |
| | 30.0 | | | | | | 17.4 | | | 15.4 | 17.2 | | | 15.4 | 17.1 | | | 30.0 |
| | 34.0 | | | | | | 32.0m/16.0 | | | 12.8 | 14.6 | | | 12.8 | 14.5 | | | 34.0 |
| | 38.0 | | | 10.3 | | | | 40.0m/8.9 | | | 12.6 | | | 10.7 | 12.5 | | | 38.0 |
| | 42.0 | | | 40.0m/9.6 | 8.0 | | | 8.7 | | | | | | | 11.0 | | | 42.0 |
| | 46.0 | | | | 44.0m/7.8 | | | 7.7 | 6.6 | | | 7.4 | | | 44.0m/10.2 | 48.0m/6.2 | | 46.0 |
| | 50.0 | | | | | | | | 6.2 | | | 6.5 | 5.4 | | | 6.2 | | 50.0 |
| | 54.0 | | | | | | | | | | | 52.0m/6.2 | 5.1 | | | 5.5 | 4.3 | 54.0 |
| | 58.0 | | | | | | | | | | | | 56.0m/4.8 | | | 4.9 | 4.2 | 58.0 |
| | 62.0 | | | | | | | | | | | | | | | | 3.7 | 62.0 |
| | Reeves | 4 | | | | 4 | | | | 3 | | | | 2 | | | | Reeves |

| Boom length (m) | | 45.7 | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 45.7 | | | | 51.8 | | | | Jib length (m) |
| Boom angle | | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| Working radius (m) | 18.0 | 21.4 | | | | | | | | 18.0 |
| | 20.0 | 21.0 | | | | 16.8 | | | | 20.0 |
| | 22.0 | 20.2 | | | | 15.5 | | | | 22.0 |
| | 24.0 | 18.8 | | | | 14.3 | | | | 24.0 |
| | 26.0 | 17.6 | 20.3 | | | 13.3 | | | | 26.0 |
| | 28.0 | 16.6 | 18.4 | | | 12.5 | 14.4 | | | 28.0 |
| | 30.0 | 15.1 | 16.8 | | | 11.7 | 13.4 | | | 30.0 |
| | 34.0 | 12.5 | 14.3 | | | 10.3 | 11.7 | | | 34.0 |
| | 38.0 | 10.5 | 12.3 | | | 9.2 | 10.4 | | | 38.0 |
| | 42.0 | 8.9 | 10.7 | | | 8.2 | 9.2 | | | 42.0 |
| | 46.0 | 44.0m/8.2 | 9.2 | | | 5.6 | 8.2 | | | 46.0 |
| | 50.0 | | 7.9 | 52.0m/5.0 | | 3.3 | 6.5 | | | 50.0 |
| | 54.0 | | | 5.0 | | | 3.7 | 56.0m/4.3 | | 54.0 |
| | 58.0 | | | 4.5 | 3.3 | | 56.0m/2.6 | 4.2 | | 58.0 |
| | 62.0 | | | 4.0 | 3.3 | | | 3.6 | 64.0m/2.8 | 62.0 |
| | 66.0 | | | 64.0m/3.8 | 2.9 | | | 3.2 | 2.6 | 66.0 |
| | 70.0 | | | | 68.0m/2.7 | | | 2.8 | 2.2 | 70.0 |
| | 74.0 | | | | | | | | 72.0m/2.0 | 74.0 |
| | Reeves | 2 | | | | 2 | | | | Reeves |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

51.8 m Boom Length

| Boom length (m) | 51.8 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| 12.0 | 37.2 | | | | 35.4 | | | | | | | | | | | | 12.0 |
| 14.0 | 32.7 | | | | 31.6 | | | | 28.8 | | | | | | | | 14.0 |
| 16.0 | 29.2 | | | | 28.1 | | | | 27.2 | | | | 23.6 | | | | 16.0 |
| 18.0 | 26.3 | 31.9 | | | 25.3 | | | | 24.4 | | | | 23.1 | | | | 18.0 |
| 20.0 | 23.9 | 28.6 | | | 22.9 | 27.5 | | | 22.0 | | | | 21.2 | | | | 20.0 |
| 22.0 | 21.8 | 25.7 | | | 20.9 | 24.9 | | | 20.1 | 23.5 | | | 19.3 | | | | 22.0 |
| 24.0 | 20.2 | 23.0 | | | 19.2 | 22.6 | | | 18.4 | 21.5 | | | 17.7 | 20.6 | | | 24.0 |
| 26.0 | | 20.8 | | | 17.8 | 20.6 | | | 16.9 | 19.7 | | | 16.3 | 19.0 | | | 26.0 |
| 28.0 | | 18.9 | | | 16.5 | 18.7 | | | 15.7 | 18.1 | | | 15.1 | 17.4 | | | 28.0 |
| 30.0 | | | | | | 17.1 | | | 14.6 | 16.7 | | | 14.0 | 16.0 | | | 30.0 |
| 34.0 | | | | | | 32.0m/15.8 | | | 12.7 | 14.4 | | | 12.2 | 13.8 | | | 34.0 |
| 38.0 | | | 9.2 | | | | | | | 12.5 | | | 10.7 | 12.0 | | | 38.0 |
| 42.0 | | | 8.3 | | | | 44.0m/7.5 | | | | | | 40.0m/10.0 | 10.6 | | | 42.0 |
| 46.0 | | | 44.0m/7.8 | 6.5 | | | 7.1 | | | | 6.1 | | | 44.0m/10.0 | | | 46.0 |
| 50.0 | | | | 48.0m/6.1 | | | 6.2 | 5.3 | | | 5.8 | 52.0m/4.1 | | | 52.0m/5.0 | | 50.0 |
| 54.0 | | | | | | | | 52.0m/5.0 | | | 5.1 | 4.1 | | | 4.8 | | 54.0 |
| 58.0 | | | | | | | | | | | | 3.8 | | | 4.3 | 3.2 | 58.0 |
| 62.0 | | | | | | | | | | | | | | | 60.0m/4.0 | 3.0 | 62.0 |
| 66.0 | | | | | | | | | | | | | | | | 64.0m/2.8 | 66.0 |
| Reeves | 3 | | | | 3 | | | | 3 | | | | 2 | | | | Reeves |

Working radius (m)

| Boom length (m) | 51.8 | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | 45.7 | | | | 51.8 | | | | Jib length (m) |
| Boom angle | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| 18.0 | 19.2 | | | | | | | | 18.0 |
| 20.0 | 18.9 | | | | 15.7 | | | | 20.0 |
| 22.0 | 18.5 | | | | 15.5 | | | | 22.0 |
| 24.0 | 17.0 | | | | 14.4 | | | | 24.0 |
| 26.0 | 15.6 | 18.0 | | | 13.4 | | | | 26.0 |
| 28.0 | 14.3 | 16.6 | | | 12.5 | 14.8 | | | 28.0 |
| 30.0 | 13.3 | 15.3 | | | 11.7 | 13.7 | | | 30.0 |
| 34.0 | 11.5 | 13.1 | | | 10.4 | 12.0 | | | 34.0 |
| 38.0 | 10.0 | 11.3 | | | 9.2 | 10.6 | | | 38.0 |
| 42.0 | 8.8 | 9.9 | | | 8.2 | 9.2 | | | 42.0 |
| 46.0 | 44.0m/8.3 | 8.8 | | | 5.3 | 8.1 | | | 46.0 |
| 50.0 | | 7.8 | | | 3.0 | 6.4 | | | 50.0 |
| 54.0 | | | 3.9 | | | 3.6 | | | 54.0 |
| 58.0 | | | 3.9 | | | 56.0m/2.4 | 3.3 | | 58.0 |
| 62.0 | | | 3.4 | | | | 3.0 | | 62.0 |
| 66.0 | | | 3.0 | | | | 2.6 | | 66.0 |
| 70.0 | | | | | | | 2.2 | | 70.0 |
| 74.0 | | | | | | | 72.0m/2.0 | | 74.0 |
| Reeves | 2 | | | | 2 | | | | Reeves |

Working radius (m)

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

Unit: metric ton

**Counterweight: 60.0 t, Carbody weight: 20.0 t**

**54.9 m Boom Length**

| Boom length (m) | | 54.9 | | | | | | | | | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 21.3 | | | | 27.4 | | | | 33.5 | | | | 39.6 | | | | Jib length (m) |
| Boom angle | | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| Working radius (m) | 12.0 | 33.7 | | | | 32.6 | | | | | | | | | | | | 12.0 |
| | 14.0 | 29.8 | | | | 28.8 | | | | 26.9 | | | | | | | | 14.0 |
| | 16.0 | 26.7 | | | | 25.6 | | | | 24.7 | | | | 22.2 | | | | 16.0 |
| | 18.0 | 24.1 | 29.6 | | | 23.1 | | | | 22.1 | | | | 21.2 | | | | 18.0 |
| | 20.0 | 21.9 | 26.5 | | | 21.0 | 24.9 | | | 20.0 | | | | 19.2 | | | | 20.0 |
| | 22.0 | 20.2 | 24.0 | | | 19.2 | 22.7 | | | 18.2 | 21.5 | | | 17.5 | | | | 22.0 |
| | 24.0 | 18.7 | 21.9 | | | 17.6 | 20.6 | | | 16.7 | 19.7 | | | 16.0 | | | | 24.0 |
| | 26.0 | | 20.1 | | | 16.3 | 18.9 | | | 15.4 | 18.0 | | | 14.7 | 17.3 | | | 26.0 |
| | 28.0 | | 18.6 | | | 15.2 | 17.5 | | | 14.3 | 16.6 | | | 13.6 | 15.8 | | | 28.0 |
| | 30.0 | | | | | 14.2 | 16.2 | | | 13.3 | 15.3 | | | 12.6 | 14.6 | | | 30.0 |
| | 34.0 | | | | | | 32.0m/15.1 | | | 11.6 | 13.2 | | | 11.0 | 12.5 | | | 34.0 |
| | 38.0 | | | 40.0m/8.1 | | | | | | | 11.6 | | | 9.7 | 10.9 | | | 38.0 |
| | 42.0 | | | 8.0 | | | | | | | | | | 40.0m/9.1 | 9.6 | | | 42.0 |
| | 46.0 | | | 44.0m/7.5 | | | | 6.6 | | | | 48.0m/5.3 | | | 44.0m/9.1 | | | 46.0 |
| | 50.0 | | | | | | | 5.9 | | | | 5.3 | | | | 52.0m/4.2 | | 50.0 |
| | 54.0 | | | | | | | | | | | 4.8 | | | | 4.2 | | 54.0 |
| | 58.0 | | | | | | | | | | | 56.0m/4.5 | | | | 3.9 | | 58.0 |
| | 62.0 | | | | | | | | | | | | | | | 3.4 | | 62.0 |
| | Reeves | 3 | | | | 3 | | | | 3 | | | | 2 | | | | Reeves |

| Boom length (m) | | 54.9 | | | | | | | | Boom length (m) |
|---|---|---|---|---|---|---|---|---|---|---|
| Jib length (m) | | 45.7 | | | | 51.8 | | | | Jib length (m) |
| Boom angle | | 88° | 83° | 65° | 60° | 88° | 83° | 65° | 60° | Boom angle |
| Working radius (m) | 18.0 | 18.2 | | | | | | | | 18.0 |
| | 20.0 | 17.9 | | | | 14.9 | | | | 20.0 |
| | 22.0 | 16.7 | | | | 14.6 | | | | 22.0 |
| | 24.0 | 15.2 | | | | 14.3 | | | | 24.0 |
| | 26.0 | 14.0 | 16.2 | | | 13.2 | | | | 26.0 |
| | 28.0 | 12.9 | 15.0 | | | 12.1 | 14.0 | | | 28.0 |
| | 30.0 | 11.9 | 13.8 | | | 11.2 | 13.0 | | | 30.0 |
| | 34.0 | 10.3 | 11.8 | | | 9.6 | 11.0 | | | 34.0 |
| | 38.0 | 9.0 | 10.2 | | | 8.3 | 9.4 | | | 38.0 |
| | 42.0 | 7.9 | 8.9 | | | 7.2 | 8.2 | | | 42.0 |
| | 46.0 | 44.0m/7.4 | 7.8 | | | 5.2 | 7.1 | | | 46.0 |
| | 50.0 | | 7.0 | | | 2.8 | 6.3 | | | 50.0 |
| | 54.0 | | | 56.0m/3.2 | | | 3.5 | | | 54.0 |
| | 58.0 | | | 3.2 | | | 56.0m/2.3 | 60.0m/2.9 | | 58.0 |
| | 62.0 | | | 3.1 | | | | 2.7 | | 62.0 |
| | 66.0 | | | 2.7 | | | | 2.3 | | 66.0 |
| | 70.0 | | | 68.0m/2.5 | | | | | | 70.0 |
| | Reeves | 2 | | | | 2 | | | | Reeves |

Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

# Luffing Boom Lifting Capacies with Luffing Jib

## Attached at 23 Degree Boom to Luffing Jib Offset Angle

Unit: metric ton

**Counterweight: 60.0 t,**
**Carbody weight: 20.0 t**

**21.3 m Boom Length**

| Boom length (m) | 21.3 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 27.4 | 33.5 | 39.6 | 45.7 | 51.8 |
| 7.0 | 70.6 | 67.8 | 65.0 | 61.5 | 57.9 | 53.6 |
| 8.0 | 70.6 | 67.8 | 65.0 | 61.5 | 57.9 | 53.6 |
| 9.0 | 70.6 | 67.8 | 65.0 | 61.5 | 57.9 | 53.6 |
| 10.0 | 66.0 | 63.7 | 61.4 | 58.5 | 55.7 | 52.3 |
| 12.0 | 48.7 | 46.6 | 44.5 | 41.8 | 39.2 | 36.1 |
| 14.0 | 37.8 | 35.8 | 33.8 | 31.3 | 28.9 | 25.9 |
| 16.0 | 30.3 | 28.4 | 26.5 | 24.1 | 21.8 | 19.0 |
| 18.0 | 24.7 | 22.8 | 21.0 | 18.7 | 16.6 | 13.9 |
| 20.0 | 20.3 | 18.5 | 16.8 | 14.7 | 12.6 | 10.0 |
| 21.0 | 18.5 | 16.7 | 15.1 | 12.9 | 10.9 | 8.4 |
| Reeves | 6 | 6 | 5 | 5 | 5 | 5 |

**27.4 m Boom Length**

| Boom length (m) | 27.4 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 27.4 | 33.5 | 39.6 | 45.7 | 51.8 |
| 8.0 | 71.1 | 68.6 | 66.1 | 62.9 | 59.8 | 56.0 |
| 9.0 | 71.1 | 68.6 | 66.1 | 62.9 | 59.8 | 56.0 |
| 10.0 | 66.2 | 64.1 | 62.0 | 59.3 | 56.7 | 53.5 |
| 12.0 | 48.9 | 47.0 | 45.0 | 42.6 | 40.2 | 37.3 |
| 14.0 | 38.0 | 36.2 | 34.4 | 32.1 | 29.8 | 27.1 |
| 16.0 | 30.5 | 28.7 | 27.0 | 24.8 | 22.7 | 20.2 |
| 18.0 | 24.9 | 23.2 | 21.5 | 19.4 | 17.4 | 15.0 |
| 20.0 | 20.5 | 18.9 | 17.3 | 15.3 | 13.4 | 11.0 |
| 22.0 | 17.2 | 15.6 | 14.0 | 12.1 | 10.3 | 8.0 |
| 24.0 | 14.4 | 12.9 | 11.4 | 9.5 | 7.7 | 5.5 |
| 25.0 | 13.2 | 11.7 | 10.2 | 8.4 | 6.7 | 4.5 |
| Reeves | 6 | 6 | 5 | 5 | 5 | 5 |

**33.5 m Boom Length**

| Boom length (m) | 33.5 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 27.4 | 33.5 | 39.6 | 45.7 | 51.8 |
| 9.0 | 71.5 | 69.3 | 67.2 | 64.4 | 61.7 | 58.4 |
| 10.0 | 64.9 | 62.9 | 60.9 | 58.4 | 55.9 | 52.9 |
| 12.0 | 49.0 | 47.1 | 45.3 | 43.0 | 40.8 | 38.0 |
| 14.0 | 38.0 | 36.2 | 34.5 | 32.4 | 30.3 | 27.8 |
| 16.0 | 30.4 | 28.7 | 27.1 | 25.0 | 23.1 | 20.7 |
| 18.0 | 24.7 | 23.1 | 21.6 | 19.6 | 17.8 | 15.5 |
| 20.0 | 20.5 | 18.9 | 17.4 | 15.5 | 13.8 | 11.6 |
| 22.0 | 17.0 | 15.5 | 14.1 | 12.2 | 10.5 | 8.4 |
| 24.0 | 14.2 | 12.8 | 11.4 | 9.6 | 7.9 | 5.9 |
| 26.0 | 12.0 | 10.5 | 9.2 | 7.5 | 5.8 | |
| 28.0 | 10.1 | 8.7 | 7.4 | 5.7 | 4.1 | |
| 30.0 | 8.5 | 7.2 | 5.9 | 4.2 | | |
| 32.0 | 7.2 | 5.8 | 4.6 | | | |
| Reeves | 6 | 6 | 6 | 5 | 5 | 5 |

**39.6 m Boom Length**

| Boom length (m) | 39.6 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 27.4 | 33.5 | 39.6 | 45.7 | 51.8 |
| 10.0 | 61.4 | 59.5 | 57.5 | 55.1 | 52.8 | 49.9 |
| 12.0 | 48.7 | 46.9 | 45.1 | 42.9 | 40.8 | 38.2 |
| 14.0 | 37.9 | 36.2 | 34.6 | 32.5 | 30.5 | 28.1 |
| 16.0 | 30.2 | 28.6 | 27.1 | 25.2 | 23.3 | 21.0 |
| 18.0 | 24.6 | 23.1 | 21.6 | 19.7 | 18.0 | 15.8 |
| 20.0 | 20.2 | 18.8 | 17.3 | 15.6 | 13.9 | 11.8 |
| 22.0 | 16.8 | 15.3 | 14.0 | 12.2 | 10.6 | 8.6 |
| 24.0 | 14.0 | 12.6 | 11.3 | 9.6 | 8.0 | 6.1 |
| 26.0 | 11.8 | 10.4 | 9.1 | 7.4 | 5.9 | 4.0 |
| 28.0 | 9.9 | 8.5 | 7.3 | 5.7 | 4.2 | |
| 30.0 | 8.3 | 7.0 | 5.7 | 4.2 | | |
| 32.0 | 6.9 | 5.6 | 4.4 | | | |
| 35.0 | 5.2 | 3.9 | | | | |
| 36.0 | 4.7 | | | | | |
| 37.0 | 4.2 | | | | | |
| Reeves | 5 | 5 | 5 | 5 | 4 | 4 |

**45.7 m Boom Length**

| Boom length (m) | 45.7 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 27.4 | 33.5 | 39.6 | 45.7 | 51.8 |
| 11.0 | 51.9 | 50.1 | 48.3 | 46.1 | 43.9 | 41.3 |
| 12.0 | 46.6 | 44.8 | 43.2 | 41.0 | 39.0 | 36.4 |
| 14.0 | 37.7 | 36.1 | 34.5 | 32.5 | 30.6 | 28.3 |
| 16.0 | 30.1 | 28.5 | 27.0 | 25.2 | 23.4 | 21.2 |
| 18.0 | 24.4 | 22.9 | 21.5 | 19.7 | 18.0 | 16.0 |
| 20.0 | 20.1 | 18.6 | 17.3 | 15.6 | 13.9 | 11.9 |
| 22.0 | 16.6 | 15.2 | 13.9 | 12.2 | 10.7 | 8.8 |
| 24.0 | 13.8 | 12.5 | 11.2 | 9.6 | 8.1 | 6.2 |
| 26.0 | 11.6 | 10.2 | 9.0 | 7.4 | 6.0 | 4.1 |
| 28.0 | 9.7 | 8.4 | 7.2 | 5.6 | 4.2 | |
| 30.0 | 8.0 | 6.7 | 5.5 | 4.0 | | |
| 32.0 | 6.6 | 5.4 | 4.2 | | | |
| 34.0 | 5.4 | 4.2 | | | | |
| 36.0 | 4.4 | | | | | |
| 37.0 | 3.9 | | | | | |
| Reeves | 4 | 4 | 4 | 4 | 4 | 4 |

**51.8 m Boom Length**

| Boom length (m) | 51.8 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 27.4 | 33.5 | 39.6 | 45.7 | 51.8 |
| 12.0 | 44.5 | 42.8 | 41.1 | 39.0 | 37.0 | 34.6 |
| 14.0 | 36.4 | 34.8 | 33.3 | 31.3 | 29.5 | 27.2 |
| 16.0 | 29.7 | 28.2 | 26.8 | 25.0 | 23.3 | 21.1 |
| 18.0 | 24.1 | 22.7 | 21.3 | 19.6 | 17.9 | 15.9 |
| 20.0 | 19.7 | 18.3 | 17.0 | 15.4 | 13.8 | 11.9 |
| 22.0 | 16.3 | 14.9 | 13.7 | 12.1 | 10.6 | 8.7 |
| 24.0 | 13.5 | 12.2 | 11.0 | 9.4 | 8.0 | 6.2 |
| 26.0 | 11.2 | 10.0 | 8.8 | 7.2 | 5.8 | 4.1 |
| 28.0 | 9.4 | 8.1 | 6.9 | 5.4 | 4.1 | |
| 30.0 | 7.7 | 6.4 | 5.3 | 3.8 | | |
| 32.0 | 6.3 | 5.1 | 4.0 | | | |
| 34.0 | 5.1 | 3.9 | | | | |
| 36.0 | 4.0 | | | | | |
| Reeves | 4 | 4 | 4 | 3 | 3 | 3 |

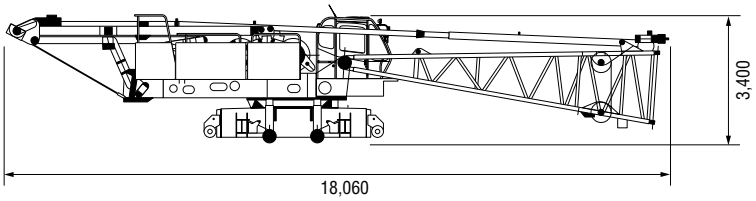
**54.9 m Boom Length**

| Boom length (m) | 54.9 | | | | | |
|---|---|---|---|---|---|---|
| Jib length (m) | 21.3 | 27.4 | 33.5 | 39.6 | 45.7 | 51.8 |
| 13.0 | 39.3 | 37.7 | 36.2 | 34.2 | 32.3 | 30.0 |
| 14.0 | 35.6 | 34.0 | 32.5 | 30.6 | 28.8 | 26.6 |
| 16.0 | 29.4 | 27.9 | 26.5 | 24.7 | 23.0 | 20.9 |
| 18.0 | 23.9 | 22.5 | 21.2 | 19.5 | 17.8 | 15.9 |
| 20.0 | 19.6 | 18.2 | 16.9 | 15.3 | 13.7 | 11.8 |
| 22.0 | 16.1 | 14.8 | 13.5 | 12.0 | 10.5 | 8.6 |
| 24.0 | 13.3 | 12.0 | 10.8 | 9.3 | 7.9 | 6.1 |
| 26.0 | 11.1 | 9.8 | 8.6 | 7.1 | 5.7 | 4.0 |
| 28.0 | 9.1 | 7.9 | 6.7 | 5.2 | 3.9 | |
| 30.0 | 7.5 | 6.3 | 5.2 | 3.7 | | |
| 32.0 | 6.1 | 4.9 | 3.8 | | | |
| 34.0 | 4.9 | 3.7 | | | | |
| 35.0 | 4.3 | | | | | |
| Reeves | 3 | 3 | 3 | 3 | 3 | 3 |

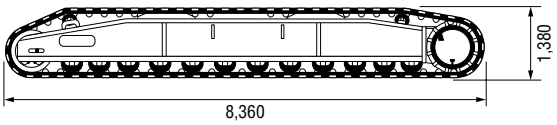
Note: Ratings according to EN13000.
Ratings shown in [ ] are determined by the strength of the boom or other structural components.
Refer to notes P21 and P22.

# PARTS AND ATTACHMENTS

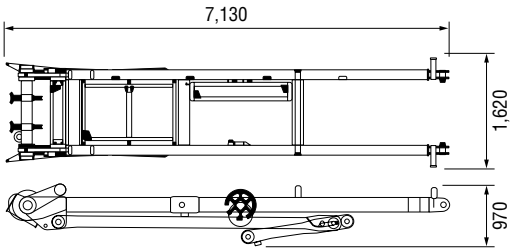
**Base Machine + Boom Base**
With boom base, trans-lifter, main and aux. winches (non free-fall) including wire rope, self removal device
Weight: approx. 44,000 kg*, Width: 3,500 mm



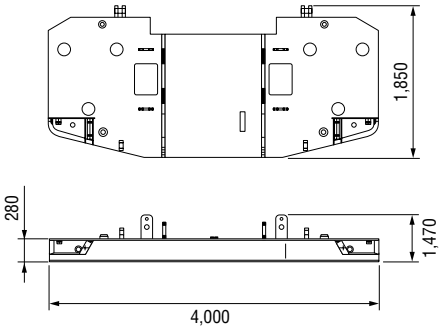

**Crawler**
Weight: 17,155 kg, Width: 1,070 mm



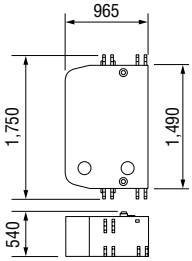

**Gantry**
Weight: 2,700 kg



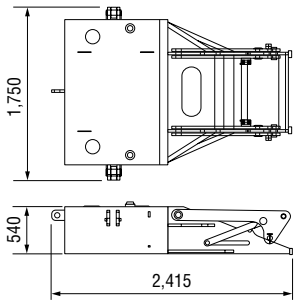

**Counterweight A**
Weight: 10,000 kg



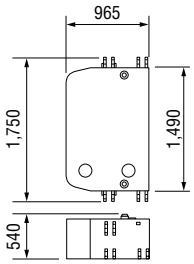

**Counterweight B**
Weight: 5,000 kg x 10 pieces



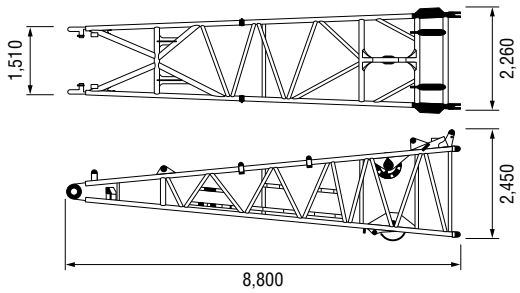

**Carbody Weight A**
Weight: 5,000 kg x 2 pieces



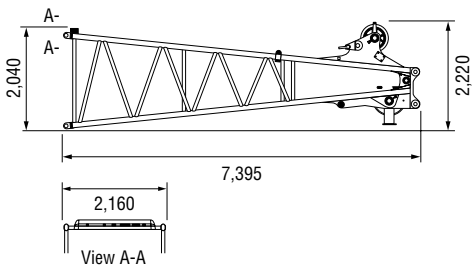

**Carbody Weight B**
Weight: 5,000 kg x 2 pieces



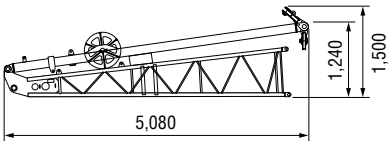

**Boom Base**
Weight: 2,620 kg



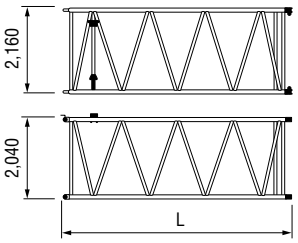

**Boom Top**
Weight: 2,240 kg (with Guy Cables)




**Jib Base with Strut (For Crane)**
Weight: 510 kg, Width: 1,040 mm



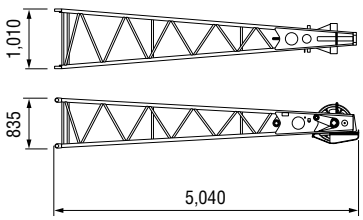

**Insert Boom**



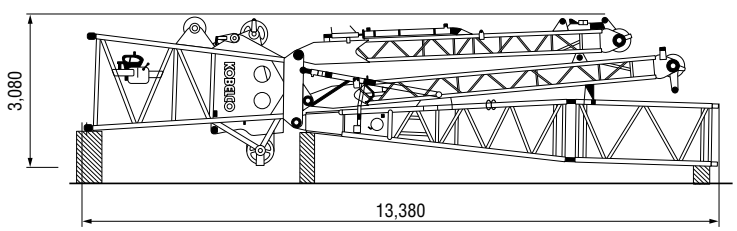

| | L (mm) | Weight (kg)* |
|---|---|---|
| 3.0m | 3,180 | 630 |
| 6.1m | 6,230 | 1,030 |
| 9.1m | 9,280 | 1,420 |
| 12.2m | 12,320 | 1,680 |

*with guy cables

**Jib Top (For Crane)**
Weight: 315 kg

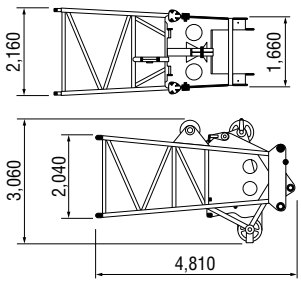



**Travel Kit Assembly**
Weight: 6,600 kg

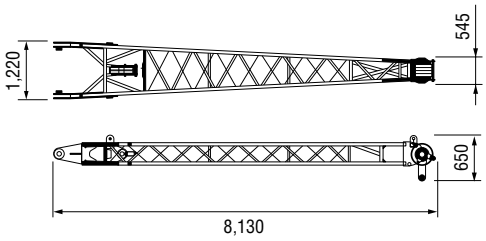


Dimensions: mm  Weight: kg

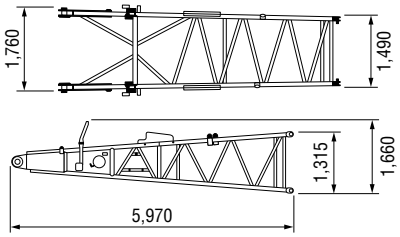
**Luffing Boom Top**
Weight: 2,545 kg



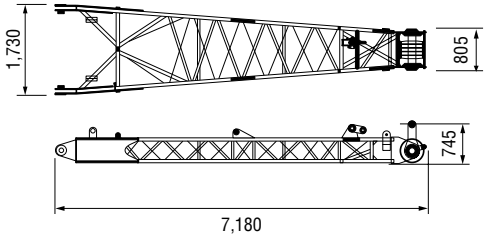

**Front Strut (Luffing Jib)**
Weight: 1,000 kg



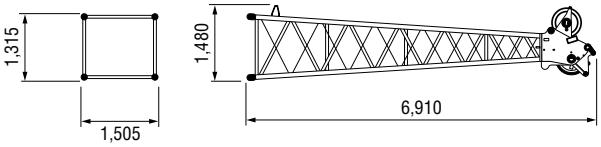

**Luffing Jib Base**
Weight: 1,140 kg




**Rear Strut (Luffing Jib)**
Weight: 1,090 kg




**Luffing Jib Top**
Weight: 1,170 kg



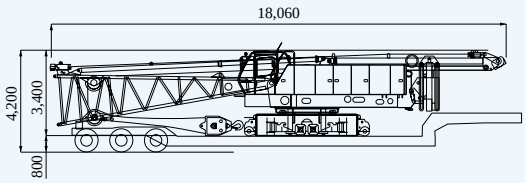
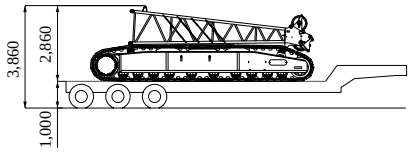
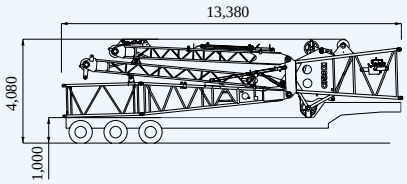
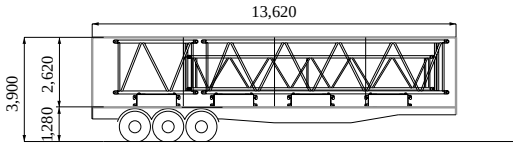
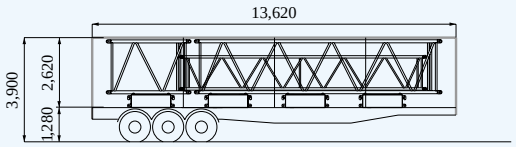
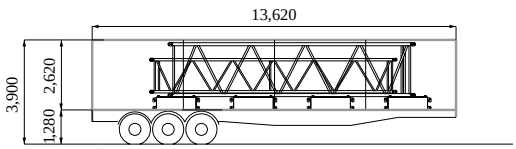
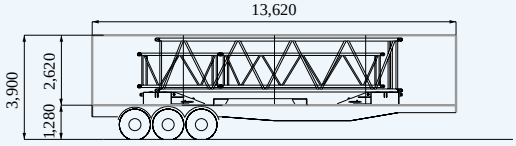

# Other Attachments

| Attachments | Weight | Dimensions (L x W x H) |
|---|---|---|
| Base machine (without boom base) | 38,150 kg | 10,700 mm x 3,500 mm x 3,390 mm |
| Trans-lifter | 360 kg | 1,050 mm x 1,030 mm |
| Boom backstop | 740 kg/1 piece | 7,090 mm x 360 mm |
| 3.0 m Insert jib (for crane) | 110 kg | 3,130 mm x 1,020 mm x 840 mm |
| 6.1 m Insert jib (for crane) | 190 kg | 6,175 mm x 1,020 mm x 840 mm |
| Auxiliary sheave | 295 kg | 2,030 mm x 740 mm x 720 mm |
| Upper spreader | 590 kg | 2,230 mm x 395 mm x 790 mm |
| Lower spreader | 400 kg | 1,500 mm x 290 mm x 780 mm |
| 3.0 m luffing Insert jib | 310 kg | 3,165 mm x 1,490 mm x 1,290 mm |
| 6.1 m luffing Insert jib | 540 kg | 6,210 mm x 1,490 mm x 1,290 mm |
| 9.1 m luffing Insert jib | 740 kg | 9,260 mm x 1,490 mm x 1,290 mm |
| Luffing jib backstop | 100 kg/1 piece | 2,940 mm x 210 mm x 230 mm |
| Strut backstop (luffing jib) | 180 kg/1 piece | 2,890 mm x 270 mm |
| Auxiliary sheave (luffing jib) | 380 kg | 1,010 mm x 890 mm x 910 mm |
| Luffing jib drum | 1,470 kg | 840 mm x 1,620 mm x 900 mm |
| 180-ton hook | 2,800 kg | 2,225 mm x 700 mm x 1,000 mm |
| 110-ton hook | 1,730 kg | 2,140 mm x 540 mm x 700 mm |
| 70-ton hook | 1,200 kg | 1,825 mm x 470 mm x 700 mm |
| 35-ton hook | 900 kg | 1,575 mm x 365 mm x 700 mm |
| Ball hook | 460 kg | 1,200 mm x 380 mm dia. |

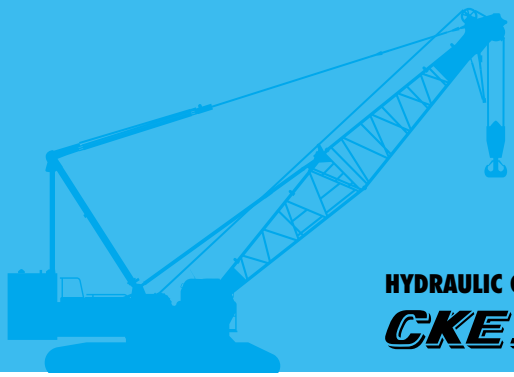
Note: Estimated weights may vary ± 2%.

# TRANSPORTATION PLAN

## Luffing Boom 54.9 m + Luffing Jib 51.8 m

| Configuration | Description | Total Weight |
|---|---|---|
| **No.1 Low Loader** **Width: 3,500 mm**<br>  | Base Machine =<br>Including 3rd winch<br>Translifter<br>All wire ropes | Approx. 44.00 ton |
| **No.2 Semi Loader**<br>  | Crawler No.1 =<br>Crawler No.2 =<br>Luffing Jib Top =<br>Total = | 17.16 ton<br>17.16 ton<br>1.17 ton<br>35.49 ton |
| **No.3 Semi Loader**<br>  | Travel Kit Assembly = | 6.60 ton |
| **No. 4 Tent Side Truck**<br>  | Counterweight B (4 x 5.00 ton) =<br>9.1 m Insert Boom x 1 =<br>9.1 m Luffing Insert Jib x 1 =<br>3.0 m Insert Boom x 1 =<br>Total = | 20.00 ton<br>1.42 ton<br>0.74 ton<br>0.63 ton<br>22.79 ton |
| **No.5 Tent Side Truck**<br>  | Counterweight B (4 x 5.00 ton) =<br>9.1 m Insert Boom x 1 =<br>9.1 m Luffing Insert Jib x 1 =<br>3.0 m Insert Boom x 1 =<br>Total = | 20.00 ton<br>1.42 ton<br>0.74 ton<br>0.53 ton<br>22.69 ton |
| **No.6 Tent Side Truck**<br>  | Counterweight B (2 x 5.00 ton)<br>Carbody Weight B (2 x 5.00 ton) =<br>9.1 m Insert Boom x 1 =<br>9.1 m Luffing Insert Jib x 1 =<br>Total = | 10.00 ton<br>10.00 ton<br>1.42 ton<br>0.74 ton<br>22.16 ton |
| **No.7 Tent Side Truck**<br>  | Counterweight A Base =<br>9.1 m Insert Boom x 1 =<br>6.1 m Luffing Insert Jib x 1 =<br>3.0 m Luffing Insert Jib x 1 =<br>Carbody Weight A (2x5.00 ton) =<br>Total = | 10.00 ton<br>1.42 ton<br>0.54 ton<br>0.31 ton<br>10.00 ton<br>22.27 ton |

Note: Estimated weights may vary ± 2%.
This transport plan depends on specifications of your trailers/trucks and the areas or countries where you transport.



HYDRAULIC CRAWLER CRANE

# CKE1800

## Standard Equipment

### Upper structure/Lower structure

Counterweight: 60.0 ton (total weight)
Carbody weight: 20.0 ton (total weight)
1,070 mm shoe crawlers
Batteries (170 Ah/20 HR)
Trans-lifter (jack system)
Gantry raising/lowering cylinder
Electric hand throttle grip
Variable boom hoist speed controller
Swing neutral-free/brake select switch
Side deck for cab
Side deck (right side guard)
Steps (crawlers)
Two front working lights
Tools (for routine maintenance)
Two rear view mirrors
Electric fuel pump
Counterweight self removal
Crawler self removal
Cable roller (for boom)

### Cab/Control

Boom hoist pedal (EU area only)
Air conditioner
Cup holder
Ashtray
Cigar lighter
Intermittent wiper & window washer (skylight and front window)
Sun visor
Roof blind
Floor mat (cloth)
Foot rest
Shoe tray
Level gauge (operator cabin)

### Safety Device

Load Moment Indicator (with boom lowering slow stop function)
LMI release key (for hook over-hoist prevention device and boom over-hoist prevention device)
LCD multi display
Ultimate stop function for boom over-hoist
Function lock lever
Propel lever lock
Mechanical drum lock pawl (main, aux. and boom hoist)
Signal horn
Swing parking brake
Mechanical swing lock pin (four positions)
Swing flashers/warning buzzer
Cab window guard (left side)
Cab top guard
Fire extinguisher
External lamp for over-load alarm
Life hammer

**Note:** Standard equipment may vary depending on your areas or countries.
Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.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