



CRANE SPECIFICATION

KOBELCO CKS1100

COMPREHENSIVE LIFTING SOLUTIONS

We look forward to providing a full heavy lift engineering and crane solution for your next project. Our heavy lift engineers and on site personnel are experienced in managing and organising highly de-manding lift requirements.

Contact us to discuss your lifting requirements and a free quote.

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8 Wormwell Drive, Roma QLD 4455

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02 6686 7748
5 Convair Ave, Ballina, NSW, 2478

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GLADSTONE

07 4972 9326
7 Red Cover Rd, Gladstone, QLD, 4680

TOWNSVILLE

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16 Mackley St, Garbutt QLD 4814

ROCKHAMPTON

07 4939 1095
371 Leichhardt St, Rockhampton QLD, 4700

MACKAY

07 4952 6998
135 Diesel Drive, Paget QLD 4740

GOLD COAST

07 5593 4688
9 Kimberley Rd, Burleigh Heads, QLD, 4220



Hydraulic Crawler Crane

CKS

1100

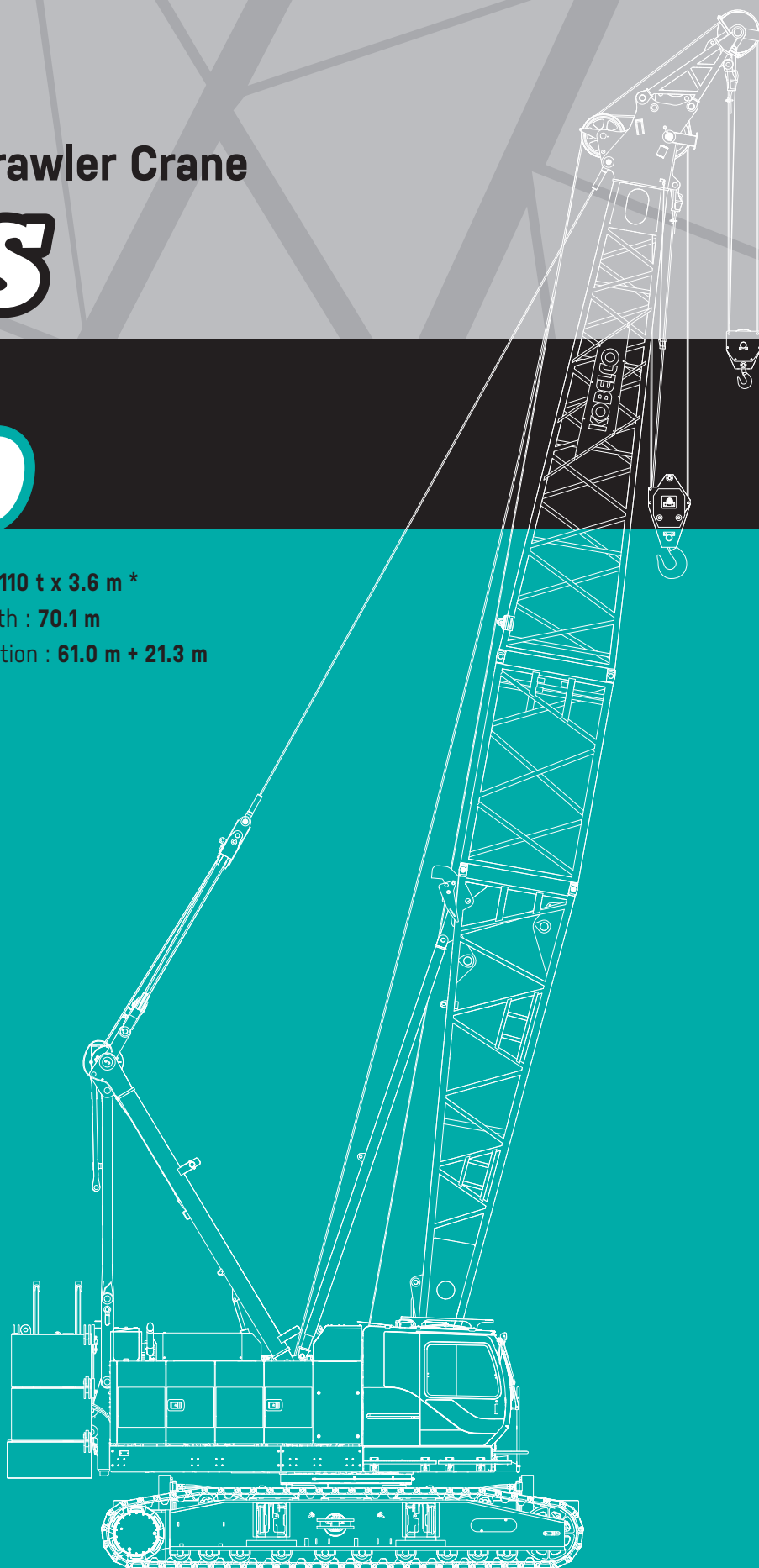
Model : CKS1100

Max. Lifting Capacity : **110 t x 3.6 m ***

Max. Crane Boom Length : **70.1 m**

Max. Fixed Jib Combination : **61.0 m + 21.3 m**

* Auxiliary sheave is necessary.



KOBELCO



CKS1100

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SPECIFICATIONS



Power Plant

Model: HINO J08E-VM
Type: 4 cycle, water-cooled, vertical in-line 6, direct injection, turbo-charger, intercooler
Displacement: 7.684 L
Rated power: 213 kW/2,100 min⁻¹
Max. Torque: 1,017 N·m/1,600 min⁻¹
Cooling System: Water-cooled
Starter: 24V-5kW
Radiator: Corrugated type core, thermostatically controlled
Air cleaner: Dry type with replaceable paper element
Throttle: Twist grip type hand throttle, electrically actuated
Fuel filter: Replaceable paper element
Batteries: Two 12V x 136 Ah/5HR capacity batteries, series connected
Fuel tank capacity: 400 L



Hydraulic System

Main pumps: 4 variable displacement piston pumps
Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. 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
Max. relief valve pressure:
Load hoist, boom hoist and propel system: 31.9 MPa
Swing system: 27.5 MPa
Control system: 5.4 MPa
Oil Quantity (at the reference level): 455 L



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: Single drum, grooved for 20 mm dia. wire rope
Line Speed: Single line on first drum layer
Hoisting/Lowering: 48 to 2 m/min
Boom hoisting/lowering: 20 mm x 155 m
Boom guy line: 34 mm
Boom backstops: Required for all boom length



Load Hoisting 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)

Drum Lock: External ratchet for locking drum

Drums:

Front Drums:

614 mm P.C.D x 617 mm wide drum, grooved for 26 mm wire rope. Rope capacity is 265 m working length and 360 m storage length.

Rear Drum: 614 mm P.C.D x 617 mm, grooved for 26 mm wire rope. Rope capacity is 235 m working length and 360 m storage length.

Diameter of wire rope

Main winch: 26 mm x 265 m

Aux. winch: 26 mm x 235 m

Third winch: 26 mm x 190 m

Line Speed:

Hoisting/lowering: 120 to 3 m/min

Line Pull:

Max. Line Pull*: 208 kN {21.2 tf}

(Referential performance)

Rated Line Pull: 108 kN {11.0 tf}

*Single line on first drum layer



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducer, 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: 3.2 min⁻¹ (rpm)



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level.
Counterweight: 34.6 ton



Cab & Control

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

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, and shoe tray



Lower Structure

Steel-welded carbody with axles. Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation. Crawler belt tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Carbody weight: 6.5 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.

Shoe (flat): 900 mm wide each crawler

Max. gradeability: 40%



Weight

Including upper and lower machine, 34.6 ton counterweight and 6.5 ton carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 102 ton

Ground pressure: 95.4 kPa



Attachment

Boom & Jib:

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

Boom and Jib length

| | Min. Length (Min. combination) | Max. Length (Max. combination) |
|------------|-----------------------------------|-----------------------------------|
| Crane Boom | 15.2 m | 70.1 m |
| Fixed Jib | 27.4 m + 9.1 m | 61.0 m + 21.3 m |

Main Specifications (Model: CKS1100)

| Crane Boom | |
|-------------------------------|---|
| Max. Lifting Capacity | 110 t x 3.6 m ^{*3} |
| Max. Length | 70.1 m |
| Fixed Jib | |
| Max. Lifting Capacity | 10.9 t x 22.0 m |
| Max. Combination | 61.0 m + 21.3 m |
| Main & Aux. Winch | |
| Max. Line Speed (1st layer) | 120 m/min |
| Rated Line Pull (Single line) | 108 kN {11.0 tf} |
| Wire Rope Diameter | 26 mm |
| Wire Rope Length | 265m (Main), 235 m (Aux.) |
| Brake Type (free fall) | Wet-type multiple disc brake (Optional) |
| Working Speed | |
| Swing Speed | 3.2 min ⁻¹ {rpm} |
| Travel Speed | 1.4/1.0 km/h |
| Power Plant | |
| Model | HINO J08E-VM |
| Engine Output | 213 kW/2,100 min ⁻¹ |
| Fuel Tank | 400 L |

| Hydraulic System | |
|---------------------------------------|---|
| Main Pumps | 4 variable displacement |
| Max. Pressure | 31.9 MPa {325 kgf/cm ² } |
| Oil Quantity (at the reference level) | 455 L |
| Self-Removal Device | |
| | counterweight/crawler self-removal device |
| Weight | |
| Operating Weight | 102 t ^{*1} |
| Ground Pressure | 95.4 kPa |
| Counterweight | 34,600 kg |
| Transport Weight | 57,410 kg ^{*2} |

Units are SI units. { } indicates conventional units.

Line speeds in table are for light loads. Line speed varies with load.

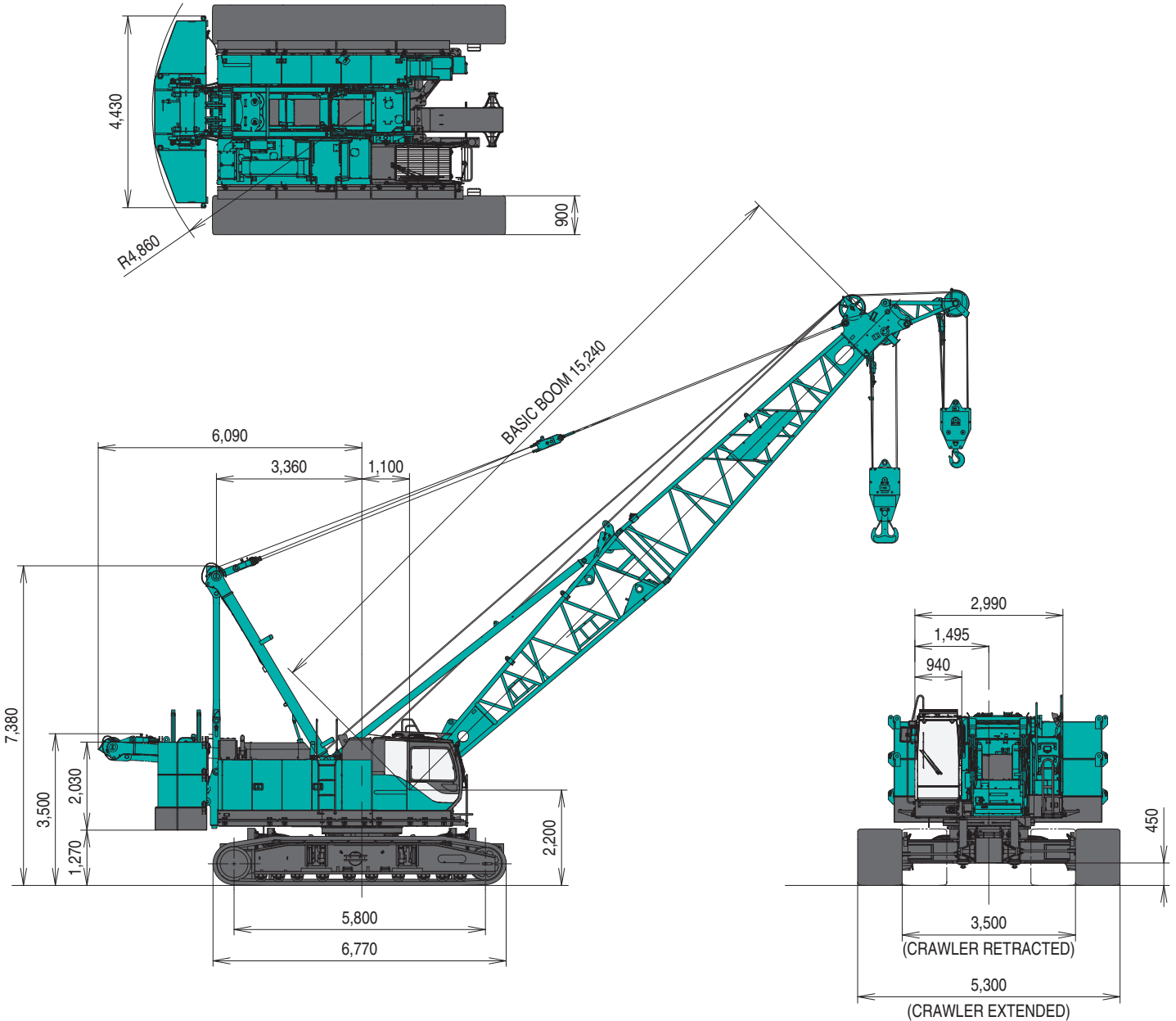
^{*1} Including upper and lower machine, 34.6 ton counterweight, 6.5 ton carbody weight, basic boom, hook, and other accessories.

^{*2} Base machine with boom base, gantry, crawlers, and wire ropes (front/boom hoist)

^{*3} Auxiliary sheave is must.

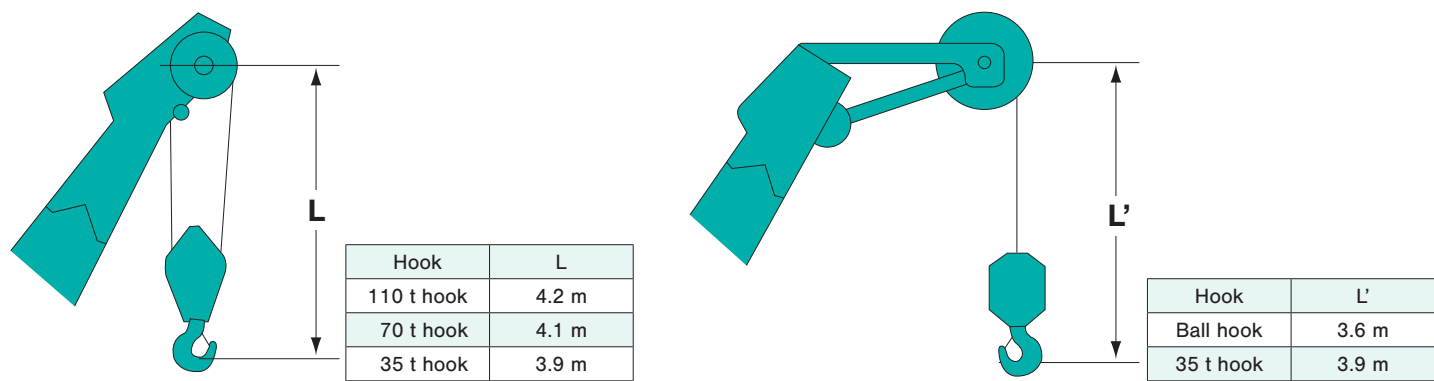
GENERAL DIMENSIONS

(Unit: mm)



This catalog may contain photographs of machines with specifications, attachments and optional equipment.

Limit of Hook Lifting



BOOM AND JIB ARRANGEMENTS

Crane Boom Arrangements

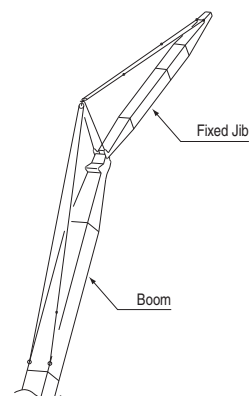
| Boom length m (ft) | Boom arrangement |
|--------------------|------------------|
| 15.2 (50) | |
| 18.3 (60) | ※ |
| 21.3 (70) | ※ |
| 24.4 (80) | ※ |
| 27.4 (90) | ※ |
| 30.5 (100) | ※ |
| 33.5 (110) | ※ |
| 36.6 (120) | ※ |
| 39.6 (130) | ※ |
| 42.7 (140) | ※ |
| 45.7 (150) | ※ |

| Boom length m (ft) | Boom arrangement |
|--------------------|------------------|
| 48.8 (160) | ※ |
| 51.8 (170) | ※ |
| 54.9 (180) | ※ |
| 57.9 (190) | ※ |
| 61.0 (200) | ※ |
| 64.0 (210) | ※ |
| 67.1 (220) | ※ |
| 70.1 (230) | ※ |

| Symbol | Boom Length | Remarks |
|--------|-------------|----------------------|
| | 7.6 m | Boom Base |
| | 7.6 m | Boom Tip |
| | 3.0 m | Insert Boom |
| | 6.1 m | Insert Boom |
| | 12.2 m | Insert Boom |
| | 12.2 m | Insert Boom with lug |

- ↗ mark shows the boom insert with lug attached and the guy line installing position when the fixed jib is used.
- ※ mark shows the standard boom arrangement which make the boom arrangement of less than the each boom length possible.
- mark shows the installing of the cable roller for the insert boom.

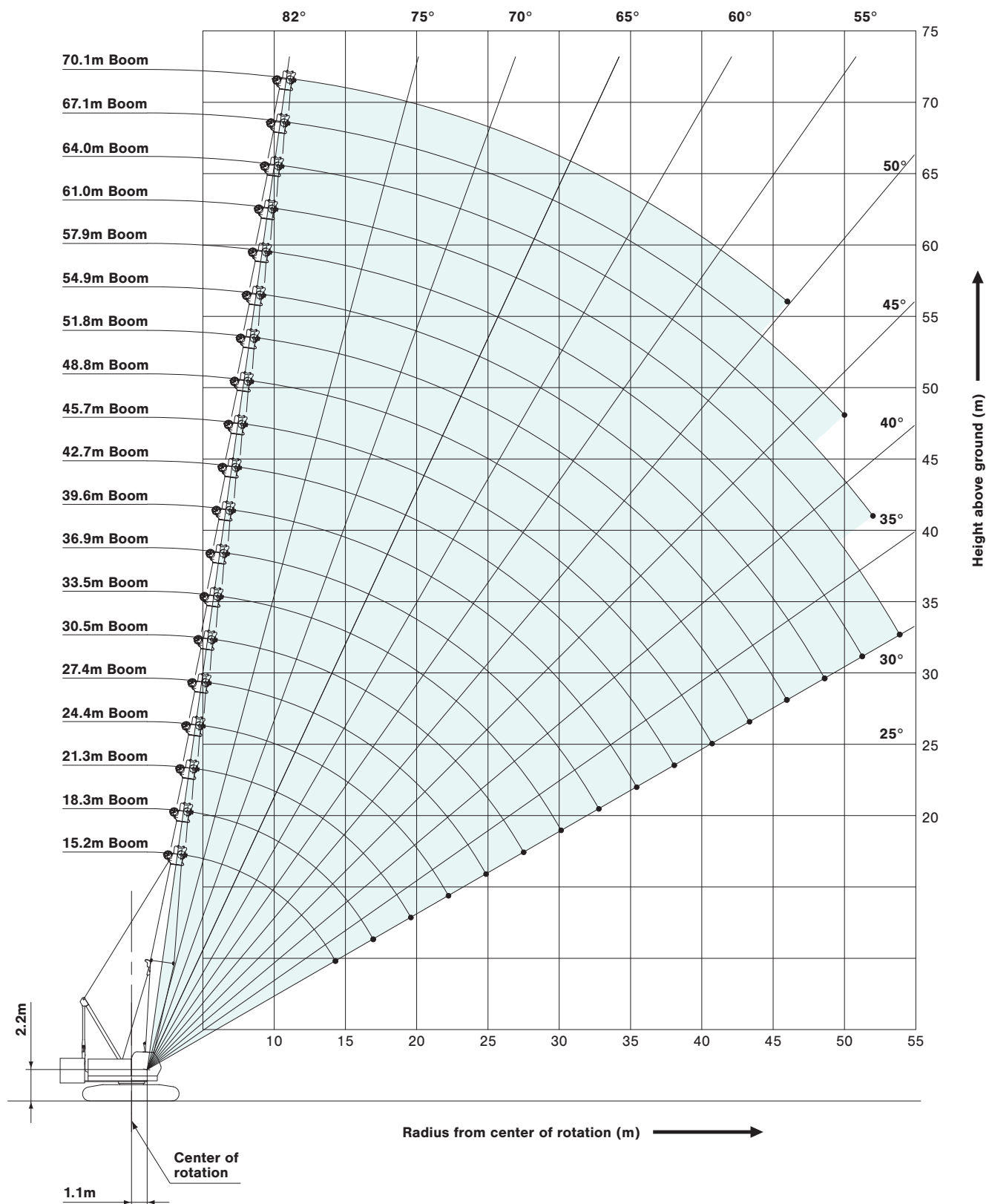
Fixed Jib Arrangements



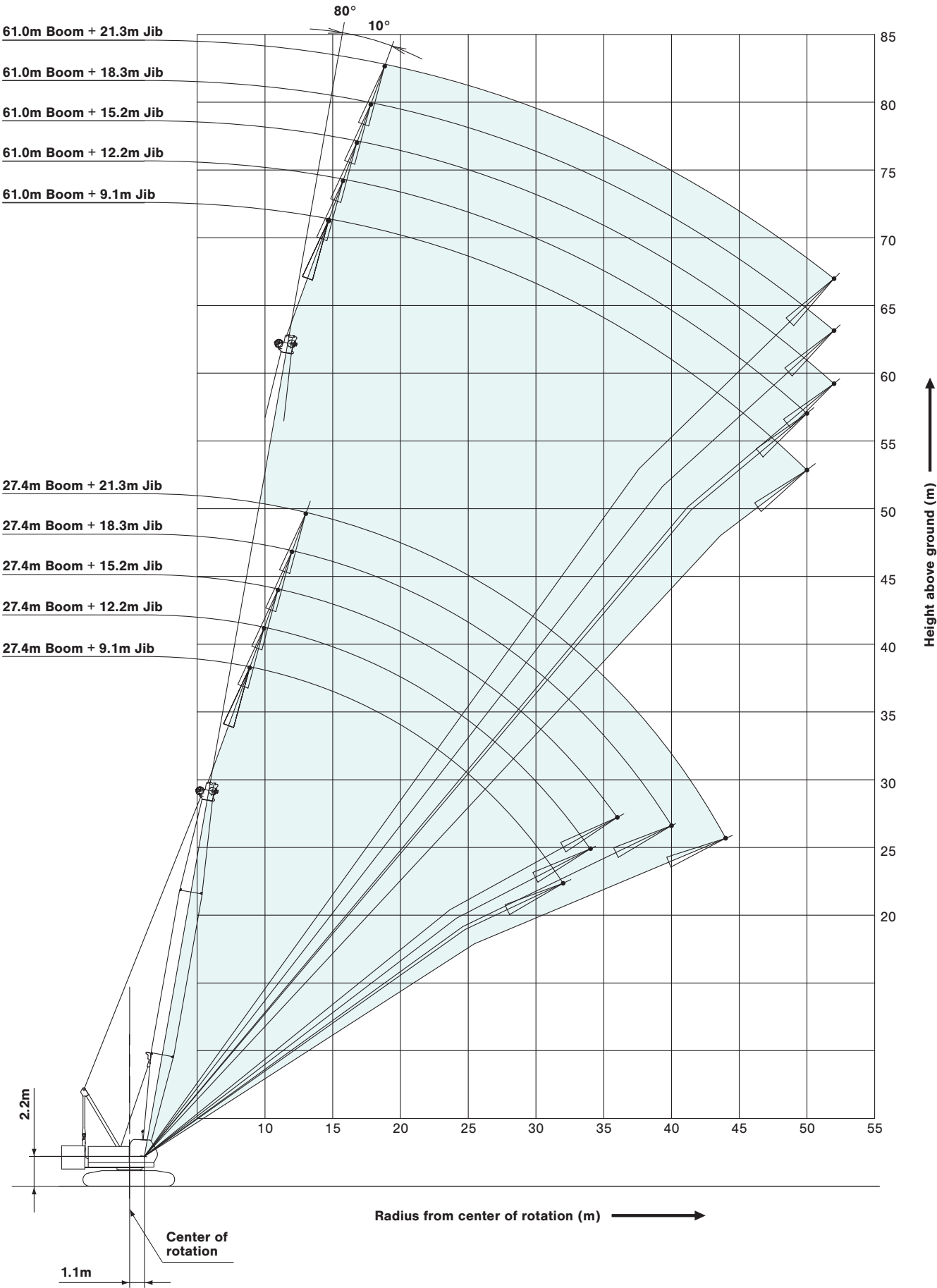
| Crane boom length | Jib length m (ft) | Jib arrangement |
|-------------------|-------------------|-----------------|
| 27.4 m to 61.0 m | 9.1 (30) | |
| | 12.2 (40) | |
| | 15.2 (50) | |
| | 18.3 (60) | |
| | 21.3 (70) | |

| Symbol | Jib Length | Remarks |
|--------|------------|------------|
| | 4.6 m | Jib Base |
| | 4.6 m | Jib Tip |
| | 3.0 m | Insert Jib |
| | 6.1 m | Insert Jib |

Crane Boom

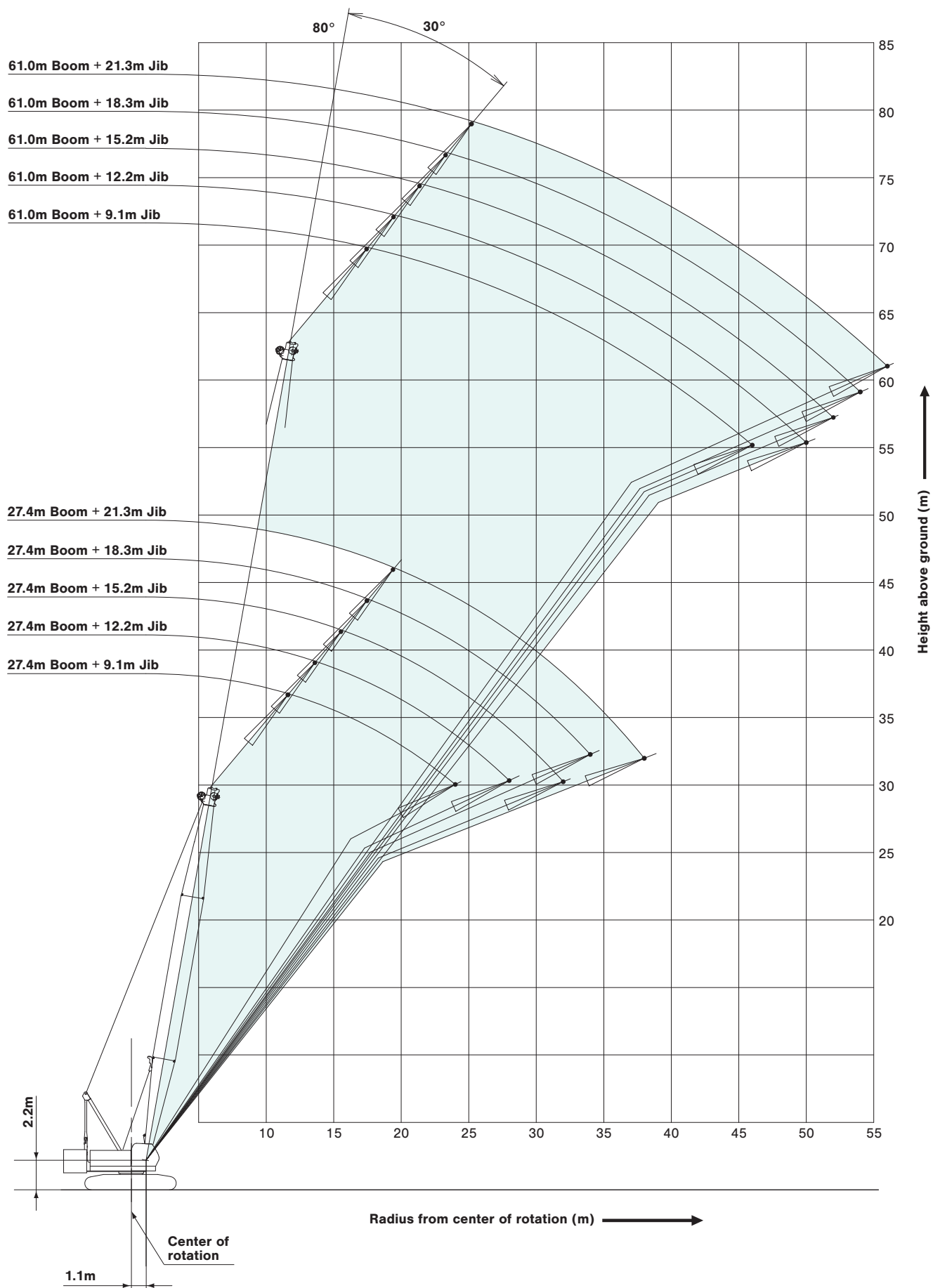


Fixed Jib 10°




WORKING RANGES

Fixed Jib 30°



SUPPLEMENTAL DATA

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- The weight of hook block, slings and all other load handling accessories shall be considered part of the lifted load.
- 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.
The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 10 parts of line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes  are based on structural competence.
- The minimum rated load is 1.5 (ton).
- Crawler frames must be fully extended for all crane operations.

(Crane boom lifting)

- The total load that can be lifted is the value of the weight of main hook block, slings, and all other load handling accessories deducted from crane boom ratings shown.

(Fixed jib lifting)

- The total load that can be lifted is the value of the weight of jib hook block, slings, and all other load handling accessories deducted from fixed jib ratings shown.
- The availability of fixed jib mounting
 - On crane boom : Range 27.4 m to 61.0 m.

<Reference Information>

Main hoist loads

| No. of Parts of Line | 1 | 2 | 3 | 4 | 5 |
|----------------------|------|------|------|------|------|
| Maximum Loads (kN) | 108 | 216 | 324 | 431 | 539 |
| Maximum Loads (t) | 11.0 | 22.0 | 33.0 | 44.0 | 55.0 |

| No. of Parts of Line | 6 | 7 | 8 | 9 | 10 |
|----------------------|------|------|------|------|-------|
| Maximum Loads (kN) | 647 | 755 | 863 | 971 | 1,079 |
| Maximum Loads (t) | 66.0 | 77.0 | 88.0 | 99.0 | 110.0 |

Auxiliary hoist loads

| No. of Parts of Line | 1 | 2 |
|----------------------|------|------|
| Maximum Loads (kN) | 108 | 216 |
| Maximum Loads (t) | 11.0 | 22.0 |

| Weight of hook block | | | | |
|----------------------|-------|------|------|-----------|
| Hook Block | 110 t | 70 t | 35 t | Ball Hook |
| Weight (t) | 1.7 | 0.9 | 0.7 | 0.45 |

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

LIFTING CAPACITIES



Crane Boom Lifting Capacities

Counterweight: 34.6 t
Carbody Weight: 6.5 t

Unit: metric ton

| 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 | Working radius (m) \ Boom length (m) |
|--------------------------------------|------------|------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|--------------------------------------|
| 3.5 | 3.6m/110.0 | | | | | | | | | | 3.5 |
| 4.0 | 98.6 | 4.1m/95.3 | 4.6m/86.0 | | | | | | | | 4.0 |
| 5.0 | 77.7 | 77.7 | 77.7 | 77.0 | 5.5m/66.0 | 5.9m/58.9 | | | | | 5.0 |
| 6.0 | 62.2 | 62.2 | 62.2 | 62.2 | 60.7 | 58.2 | 6.4m/52.4 | 6.8m/47.1 | | | 6.0 |
| 7.0 | 53.3 | 53.2 | 53.2 | 53.1 | 51.2 | 49.4 | 47.6 | 46.0 | 7.3m/42.7 | 7.8m/38.9 | 7.0 |
| 8.0 | 44.5 | 44.4 | 44.4 | 44.2 | 44.2 | 42.7 | 41.4 | 40.1 | 38.9 | 37.7 | 8.0 |
| 9.0 | 37.6 | 37.5 | 37.4 | 37.3 | 37.3 | 37.2 | 36.5 | 35.5 | 34.5 | 33.5 | 9.0 |
| 10.0 | 32.5 | 32.4 | 32.3 | 32.2 | 32.2 | 32.1 | 32.0 | 31.7 | 30.9 | 30.1 | 10.0 |
| 12.0 | 25.5 | 25.3 | 25.2 | 25.1 | 25.1 | 24.9 | 24.9 | 24.8 | 24.7 | 24.6 | 12.0 |
| 14.0 | 20.8 | 20.7 | 20.6 | 20.4 | 20.4 | 20.3 | 20.2 | 20.1 | 20.0 | 19.9 | 14.0 |
| 16.0 | 14.4m/20.1 | 17.4 | 17.3 | 17.1 | 17.1 | 16.9 | 16.9 | 16.7 | 16.7 | 16.6 | 16.0 |
| 18.0 | | 17.1m/16.0 | 14.8 | 14.7 | 14.6 | 14.5 | 14.4 | 14.3 | 14.2 | 14.1 | 18.0 |
| 20.0 | | | 19.7m/13.2 | 12.8 | 12.7 | 12.6 | 12.5 | 12.4 | 12.3 | 12.2 | 20.0 |
| 22.0 | | | | 11.3 | 11.2 | 11.1 | 11.0 | 10.8 | 10.8 | 10.6 | 22.0 |
| 24.0 | | | | 22.4m/11.1 | 10.0 | 9.8 | 9.8 | 9.6 | 9.5 | 9.4 | 24.0 |
| 26.0 | | | | | 25.0m/9.5 | 8.8 | 8.7 | 8.6 | 8.5 | 8.4 | 26.0 |
| 28.0 | | | | | | 27.6m/8.1 | 7.9 | 7.7 | 7.6 | 7.5 | 28.0 |
| 30.0 | | | | | | | 7.2 | 7.0 | 6.9 | 6.8 | 30.0 |
| 32.0 | | | | | | | 30.3m/7.1 | 6.4 | 6.3 | 6.1 | 32.0 |
| 34.0 | | | | | | | | 32.9m/6.1 | 5.7 | 5.6 | 34.0 |
| 36.0 | | | | | | | | | 35.6m/5.3 | 5.1 | 36.0 |
| 38.0 | | | | | | | | | | 4.7 | 38.0 |
| 40.0 | | | | | | | | | | 38.2m/4.6 | 40.0 |
| Reeves | 10 | 9 | 8 | 7 | 6 | 6 | 5 | 5 | 4 | 4 | Reeves |

| Working radius (m) \ Boom length (m) | 45.7 | 48.8 | 51.8 | 54.9 | 57.9 | 61.0 | 64.0 | 67.1 | 70.1 | Working radius (m) \ Boom length (m) |
|--------------------------------------|-----------|-----------|-----------|-----------|-----------|------------|------------|------------|------------|--------------------------------------|
| 8.0 | 8.2m/35.6 | 8.7m/32.9 | | | | | | | | 8.0 |
| 9.0 | 32.4 | 31.7 | 9.1m/30.4 | 9.6m/28.1 | | | | | | 9.0 |
| 10.0 | 29.1 | 28.5 | 27.7 | 27.0 | 26.1 | 10.5m/22.0 | 10.9m/22.0 | 11.4m/19.1 | 11.9m/15.0 | 10.0 |
| 12.0 | 24.0 | 23.6 | 23.0 | 22.4 | 21.7 | 21.4 | 20.8 | 18.4 | 14.9 | 12.0 |
| 14.0 | 19.8 | 19.7 | 19.4 | 18.9 | 18.4 | 18.2 | 17.6 | 16.5 | 13.1 | 14.0 |
| 16.0 | 16.4 | 16.4 | 16.3 | 16.1 | 15.8 | 15.6 | 15.2 | 14.8 | 11.7 | 16.0 |
| 18.0 | 13.9 | 13.9 | 13.8 | 13.6 | 13.5 | 13.5 | 13.2 | 12.8 | 10.4 | 18.0 |
| 20.0 | 12.0 | 12.0 | 11.9 | 11.7 | 11.6 | 11.6 | 11.4 | 11.3 | 9.3 | 20.0 |
| 22.0 | 10.5 | 10.5 | 10.3 | 10.2 | 10.0 | 10.1 | 9.9 | 9.8 | 8.3 | 22.0 |
| 24.0 | 9.2 | 9.2 | 9.1 | 8.9 | 8.8 | 8.8 | 8.6 | 8.5 | 7.5 | 24.0 |
| 26.0 | 8.2 | 8.2 | 8.0 | 7.9 | 7.7 | 7.7 | 7.6 | 7.5 | 6.7 | 26.0 |
| 28.0 | 7.3 | 7.3 | 7.2 | 7.0 | 6.9 | 6.9 | 6.7 | 6.6 | 6.0 | 28.0 |
| 30.0 | 6.6 | 6.5 | 6.4 | 6.3 | 6.1 | 6.1 | 6.0 | 5.8 | 5.3 | 30.0 |
| 32.0 | 5.9 | 5.9 | 5.8 | 5.6 | 5.5 | 5.5 | 5.3 | 5.2 | 4.7 | 32.0 |
| 34.0 | 5.4 | 5.3 | 5.2 | 5.0 | 4.9 | 4.9 | 4.7 | 4.6 | 4.2 | 34.0 |
| 36.0 | 4.9 | 4.8 | 4.7 | 4.6 | 4.4 | 4.4 | 4.2 | 4.1 | 3.7 | 36.0 |
| 38.0 | 4.5 | 4.4 | 4.3 | 4.1 | 4.0 | 3.9 | 3.8 | 3.6 | 3.2 | 38.0 |
| 40.0 | 4.1 | 4.0 | 3.9 | 3.7 | 3.5 | 3.5 | 3.3 | 3.2 | 2.7 | 40.0 |
| 42.0 | 40.8m/4.0 | 3.7 | 3.5 | 3.3 | 3.2 | 3.1 | 2.9 | 2.8 | 2.3 | 42.0 |
| 44.0 | | 43.5m/3.5 | 3.2 | 3.0 | 2.8 | 2.8 | 2.6 | 2.4 | 1.9 | 44.0 |
| 46.0 | | | 2.9 | 2.7 | 2.5 | 2.5 | 2.3 | 2.1 | 1.6 | 46.0 |
| 48.0 | | | 46.1m/2.9 | 2.4 | 2.2 | 2.2 | 2.0 | 1.8 | | 48.0 |
| 50.0 | | | | 48.8m/2.3 | 2.0 | 1.9 | 1.7 | 1.6 | | 50.0 |
| 52.0 | | | | | 51.4m/1.8 | 1.7 | 1.5 | | | 52.0 |
| 54.0 | | | | | | 1.5 | | | | 54.0 |
| Reeves | 4 | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | Reeves |

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.



Fixed Jib Lifting Capacities (Without Main Hook Block)

(Jib Offset Angle : 10°)

Counterweight: 34.6 t
Carbody Weight: 6.5 t

Unit: metric ton

| Boom length (m) | | 27.4 | | | | | 30.5 | | | | | 33.5 | | | | | Boom length (m) |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| Jib length (m) | | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) |
| Working radius (m) | 10.0 | 10.9 | | | | | 10.9 | | | | | | | | | | 10.0 |
| | 12.0 | 10.9 | 10.9 | 10.9 | | | 10.9 | 10.9 | 10.9 | | | 10.9 | 10.9 | | | | 12.0 |
| | 14.0 | 10.9 | 10.9 | 10.9 | 9.8 | 7.1 | 10.9 | 10.9 | 10.9 | 9.9 | 7.1 | 10.9 | 10.9 | 10.9 | 9.9 | | 14.0 |
| | 16.0 | 10.9 | 10.9 | 10.9 | 9.6 | 6.9 | 10.9 | 10.9 | 10.9 | 9.7 | 6.9 | 10.9 | 10.9 | 10.9 | 9.7 | 7.0 | 16.0 |
| | 18.0 | 10.9 | 10.9 | 10.2 | 8.9 | 6.7 | 10.9 | 10.9 | 10.7 | 9.3 | 6.8 | 10.9 | 10.9 | 10.9 | 9.5 | 6.8 | 18.0 |
| | 20.0 | 10.9 | 10.9 | 9.2 | 8.0 | 6.5 | 10.9 | 10.9 | 9.7 | 8.4 | 6.6 | 10.9 | 10.9 | 10.2 | 8.8 | 6.7 | 20.0 |
| | 22.0 | 10.9 | 10.2 | 8.4 | 7.3 | 6.4 | 10.9 | 10.9 | 8.9 | 7.6 | 6.5 | 10.9 | 10.9 | 9.3 | 8.0 | 6.5 | 22.0 |
| | 24.0 | 10.1 | 9.4 | 7.7 | 6.7 | 6.0 | 10.0 | 10.0 | 8.2 | 7.0 | 6.3 | 9.9 | 10.0 | 8.6 | 7.4 | 6.4 | 24.0 |
| | 26.0 | 9.1 | 8.7 | 7.2 | 6.2 | 5.5 | 8.9 | 9.1 | 7.6 | 6.5 | 5.8 | 8.8 | 9.0 | 8.0 | 6.8 | 6.1 | 26.0 |
| | 28.0 | 8.2 | 8.1 | 6.7 | 5.7 | 5.1 | 8.0 | 8.2 | 7.0 | 6.0 | 5.4 | 7.9 | 8.1 | 7.4 | 6.3 | 5.6 | 28.0 |
| | 30.0 | 7.4 | 7.5 | 6.2 | 5.4 | 4.7 | 7.3 | 7.4 | 6.6 | 5.6 | 5.0 | 7.2 | 7.3 | 7.0 | 5.9 | 5.2 | 30.0 |
| | 32.0 | 6.8 | 6.9 | 5.9 | 5.0 | 4.4 | 6.6 | 6.7 | 6.2 | 5.3 | 4.7 | 6.5 | 6.6 | 6.5 | 5.6 | 4.9 | 32.0 |
| | 34.0 | | 6.3 | 5.5 | 4.7 | 4.2 | 6.1 | 6.2 | 5.9 | 5.0 | 4.4 | 6.0 | 6.1 | 6.1 | 5.3 | 4.6 | 34.0 |
| | 36.0 | | | 5.3 | 4.5 | 3.9 | | 5.7 | 5.6 | 4.7 | 4.1 | 5.5 | 5.5 | 5.6 | 5.0 | 4.3 | 36.0 |
| | 38.0 | | | | 4.2 | 3.7 | | | 5.3 | 4.5 | 3.9 | 5.0 | 5.1 | 5.2 | 4.7 | 4.1 | 38.0 |
| | 40.0 | | | | 4.0 | 3.5 | | | 4.9 | 4.3 | 3.7 | | 4.7 | 4.8 | 4.5 | 3.9 | 40.0 |
| | 42.0 | | | | | 3.3 | | | | 4.1 | 3.5 | | | 4.4 | 4.3 | 3.7 | 42.0 |
| | 44.0 | | | | | 3.2 | | | | 3.9 | 3.4 | | | 4.1 | 4.1 | 3.5 | 44.0 |
| | 46.0 | | | | | | | | | | 3.2 | | | | 3.8 | 3.4 | 46.0 |
| | 48.0 | | | | | | | | | | | | | | | 3.3 | 48.0 |
| | 50.0 | | | | | | | | | | | | | | | 3.1 | 50.0 |
| Reeves | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

| Boom length (m) | | 36.6 | | | | | 39.6 | | | | | 42.7 | | | | | Boom length (m) |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| Jib length (m) | | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) |
| Working radius (m) | 12.0 | 10.9 | 10.9 | | | | 10.9 | | | | | 10.9 | | | | | 12.0 |
| | 14.0 | 10.9 | 10.9 | 10.9 | 10.0 | | 10.9 | 10.9 | 10.9 | | | 10.9 | 10.9 | 10.9 | | | 14.0 |
| | 16.0 | 10.9 | 10.9 | 10.9 | 9.8 | 7.0 | 10.9 | 10.9 | 10.9 | 9.8 | 7.1 | 10.9 | 10.9 | 10.9 | 9.9 | 7.1 | 16.0 |
| | 18.0 | 10.9 | 10.9 | 10.9 | 9.6 | 6.9 | 10.9 | 10.9 | 10.9 | 9.7 | 6.9 | 10.9 | 10.9 | 10.9 | 9.7 | 6.9 | 18.0 |
| | 20.0 | 10.9 | 10.9 | 10.6 | 9.1 | 6.7 | 10.9 | 10.9 | 10.9 | 9.5 | 6.8 | 10.9 | 10.9 | 10.9 | 9.6 | 6.8 | 20.0 |
| | 22.0 | 10.9 | 10.9 | 9.7 | 8.3 | 6.6 | 10.9 | 10.9 | 10.1 | 8.7 | 6.6 | 10.8 | 10.9 | 10.5 | 9.0 | 6.7 | 22.0 |
| | 24.0 | 9.7 | 9.9 | 9.0 | 7.7 | 6.4 | 9.6 | 9.8 | 9.4 | 8.0 | 6.5 | 9.5 | 9.7 | 9.8 | 8.3 | 6.5 | 24.0 |
| | 26.0 | 8.7 | 8.8 | 8.3 | 7.1 | 6.3 | 8.6 | 8.7 | 8.7 | 7.4 | 6.4 | 8.4 | 8.6 | 8.7 | 7.7 | 6.4 | 26.0 |
| | 28.0 | 7.8 | 7.9 | 7.8 | 6.6 | 5.9 | 7.7 | 7.8 | 7.9 | 6.9 | 6.1 | 7.6 | 7.7 | 7.8 | 7.2 | 6.3 | 28.0 |
| | 30.0 | 7.0 | 7.1 | 7.2 | 6.2 | 5.5 | 6.9 | 7.0 | 7.1 | 6.5 | 5.7 | 6.8 | 6.9 | 7.0 | 6.8 | 5.9 | 30.0 |
| | 32.0 | 6.4 | 6.5 | 6.6 | 5.8 | 5.1 | 6.3 | 6.4 | 6.5 | 6.1 | 5.4 | 6.1 | 6.2 | 6.3 | 6.4 | 5.6 | 32.0 |
| | 34.0 | 5.8 | 5.9 | 6.0 | 5.5 | 4.8 | 5.7 | 5.8 | 5.9 | 5.8 | 5.0 | 5.6 | 5.7 | 5.8 | 5.8 | 5.2 | 34.0 |
| | 36.0 | 5.3 | 5.4 | 5.5 | 5.2 | 4.6 | 5.2 | 5.3 | 5.4 | 5.4 | 4.8 | 5.0 | 5.2 | 5.2 | 5.3 | 5.0 | 36.0 |
| | 38.0 | 4.9 | 4.9 | 5.0 | 4.9 | 4.3 | 4.7 | 4.8 | 4.9 | 5.0 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 4.7 | 38.0 |
| | 40.0 | 4.5 | 4.5 | 4.6 | 4.7 | 4.1 | 4.3 | 4.4 | 4.5 | 4.6 | 4.3 | 4.2 | 4.3 | 4.4 | 4.4 | 4.5 | 40.0 |
| | 42.0 | | 4.2 | 4.3 | 4.3 | 3.9 | 4.0 | 4.1 | 4.1 | 4.2 | 4.1 | 3.8 | 3.9 | 4.0 | 4.1 | 4.1 | 42.0 |
| | 44.0 | | | 3.9 | 4.0 | 3.7 | | 3.7 | 3.8 | 3.9 | 3.9 | 3.5 | 3.6 | 3.7 | 3.7 | 3.8 | 44.0 |
| | 46.0 | | | | 3.7 | 3.6 | | | 3.5 | 3.6 | 3.6 | | 3.3 | 3.4 | 3.4 | 3.5 | 46.0 |
| | 48.0 | | | | 3.4 | 3.4 | | | 3.2 | 3.3 | 3.3 | | 3.1 | 3.1 | 3.2 | 3.2 | 48.0 |
| | 50.0 | | | | | 3.2 | | | | 3.0 | 3.1 | | | 2.9 | 2.9 | 3.0 | 50.0 |
| | 52.0 | | | | | | | | | | 2.9 | | | | 2.7 | 2.7 | 52.0 |
| | 54.0 | | | | | | | | | | 2.6 | | | | 2.5 | 2.5 | 54.0 |
| | 56.0 | | | | | | | | | | | | | | | 2.3 | 56.0 |
| Reeves | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

LIFTING CAPACITIES

| Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 10°) | | | | | | | | | | | | | | | | | Counterweight: 34.6 t Carbody Weight: 6.5 t |
|--|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|--|
| Unit: metric ton | | | | | | | | | | | | | | | | | |
| Boom length (m) | 45.7 | | | | | 48.8 | | | | | 51.8 | | | | | Boom length (m) | |
| Jib length (m) | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) | |
| Working radius (m) | 14.0 | 10.9 | 10.9 | | | | 10.9 | 10.9 | | | | 10.9 | | | | 14.0 | |
| | 16.0 | 10.9 | 10.9 | 10.9 | 9.9 | | 10.9 | 10.9 | 10.9 | 10.0 | | 10.9 | 10.9 | 10.9 | | 16.0 | |
| | 18.0 | 10.9 | 10.9 | 10.9 | 9.8 | 7.0 | 10.9 | 10.9 | 10.9 | 9.8 | 7.0 | 10.9 | 10.9 | 10.9 | 9.8 | 7.0 | 18.0 |
| | 20.0 | 10.9 | 10.9 | 10.9 | 9.6 | 6.8 | 10.9 | 10.9 | 10.9 | 9.6 | 6.9 | 10.9 | 10.9 | 10.9 | 9.7 | 6.9 | 20.0 |
| | 22.0 | 10.6 | 10.8 | 10.9 | 9.3 | 6.7 | 10.5 | 10.7 | 10.8 | 9.5 | 6.8 | 10.4 | 10.6 | 10.7 | 9.5 | 6.8 | 22.0 |
| | 24.0 | 9.3 | 9.5 | 9.6 | 8.6 | 6.6 | 9.3 | 9.4 | 9.5 | 8.9 | 6.6 | 9.1 | 9.3 | 9.4 | 9.2 | 6.7 | 24.0 |
| | 26.0 | 8.3 | 8.4 | 8.5 | 8.0 | 6.5 | 8.2 | 8.4 | 8.5 | 8.3 | 6.5 | 8.1 | 8.2 | 8.3 | 8.4 | 6.6 | 26.0 |
| | 28.0 | 7.4 | 7.5 | 7.6 | 7.5 | 6.4 | 7.3 | 7.4 | 7.6 | 7.6 | 6.4 | 7.2 | 7.3 | 7.4 | 7.5 | 6.5 | 28.0 |
| | 30.0 | 6.6 | 6.8 | 6.9 | 6.9 | 6.2 | 6.5 | 6.7 | 6.8 | 6.9 | 6.3 | 6.4 | 6.5 | 6.7 | 6.7 | 6.4 | 30.0 |
| | 32.0 | 6.0 | 6.1 | 6.2 | 6.3 | 5.8 | 5.9 | 6.0 | 6.1 | 6.2 | 6.0 | 5.7 | 5.9 | 6.0 | 6.1 | 6.1 | 32.0 |
| | 34.0 | 5.4 | 5.5 | 5.6 | 5.7 | 5.5 | 5.3 | 5.4 | 5.5 | 5.6 | 5.6 | 5.2 | 5.3 | 5.4 | 5.5 | 5.5 | 34.0 |
| | 36.0 | 4.9 | 5.0 | 5.1 | 5.2 | 5.2 | 4.8 | 4.9 | 5.0 | 5.1 | 5.1 | 4.7 | 4.8 | 4.9 | 4.9 | 5.0 | 36.0 |
| | 38.0 | 4.4 | 4.5 | 4.6 | 4.7 | 4.7 | 4.3 | 4.4 | 4.5 | 4.6 | 4.7 | 4.2 | 4.3 | 4.4 | 4.5 | 4.5 | 38.0 |
| | 40.0 | 4.0 | 4.1 | 4.2 | 4.3 | 4.3 | 3.9 | 4.0 | 4.1 | 4.2 | 4.2 | 3.8 | 3.9 | 4.0 | 4.1 | 4.1 | 40.0 |
| | 42.0 | 3.7 | 3.8 | 3.8 | 3.9 | 4.0 | 3.6 | 3.7 | 3.8 | 3.8 | 3.9 | 3.4 | 3.5 | 3.6 | 3.7 | 3.7 | 42.0 |
| | 44.0 | 3.3 | 3.4 | 3.5 | 3.6 | 3.6 | 3.2 | 3.3 | 3.4 | 3.5 | 3.5 | 3.1 | 3.2 | 3.3 | 3.4 | 3.4 | 44.0 |
| | 46.0 | 3.1 | 3.1 | 3.2 | 3.3 | 3.3 | 3.0 | 3.0 | 3.1 | 3.2 | 3.2 | 2.8 | 2.9 | 3.0 | 3.1 | 3.1 | 46.0 |
| | 48.0 | 2.8 | 2.9 | 2.9 | 3.0 | 3.1 | 2.7 | 2.8 | 2.8 | 2.9 | 3.0 | 2.5 | 2.6 | 2.7 | 2.8 | 2.8 | 48.0 |
| | 50.0 | | 2.6 | 2.7 | 2.8 | 2.8 | 2.4 | 2.5 | 2.6 | 2.7 | 2.7 | 2.2 | 2.3 | 2.4 | 2.5 | 2.5 | 50.0 |
| | 52.0 | | | 2.4 | 2.5 | 2.6 | | 2.2 | 2.3 | 2.4 | 2.4 | 1.9 | 2.0 | 2.1 | 2.2 | 2.2 | 52.0 |
| | 54.0 | | | | 2.3 | 2.3 | | | 2.0 | 2.1 | 2.2 | | 1.8 | 1.9 | 1.9 | 2.0 | 54.0 |
| | 56.0 | | | | 2.0 | 2.1 | | | 1.8 | 1.9 | 1.9 | | 1.5 | 1.6 | 1.7 | 1.8 | 56.0 |
| | 58.0 | | | | | 1.9 | | | | 1.7 | 1.7 | | | | | | 58.0 |
| | 60.0 | | | | | | | | | | 1.5 | | | | | | 60.0 |
| | Reeves | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

| Boom length (m) | 54.9 | | | | | 57.9 | | | | | 61.0 | | | | | Boom length (m) | |
|--------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|--------|
| Jib length (m) | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) | |
| Working radius (m) | 14.0 | 10.9 | | | | | | | | | | | | | | 14.0 | |
| | 16.0 | 10.9 | 10.9 | 10.9 | | | 10.9 | 10.9 | | | | 10.9 | 10.9 | | | 16.0 | |
| | 18.0 | 10.9 | 10.9 | 10.9 | 9.9 | 7.1 | 10.9 | 10.9 | 10.9 | 9.9 | | 10.9 | 10.9 | 10.9 | 9.9 | 18.0 | |
| | 20.0 | 10.9 | 10.9 | 10.9 | 9.7 | 6.9 | 10.9 | 10.9 | 10.9 | 9.8 | 7.0 | 10.9 | 10.8 | 10.8 | 9.8 | 7.0 | 20.0 |
| | 22.0 | 10.3 | 10.5 | 10.6 | 9.6 | 6.8 | 10.1 | 10.3 | 10.5 | 9.6 | 6.8 | 10.1 | 10.3 | 10.4 | 9.7 | 6.9 | 22.0 |
| | 24.0 | 9.0 | 9.2 | 9.3 | 9.4 | 6.7 | 8.9 | 9.0 | 9.2 | 9.3 | 6.7 | 8.8 | 9.0 | 9.1 | 9.2 | 6.8 | 24.0 |
| | 26.0 | 7.9 | 8.1 | 8.2 | 8.3 | 6.6 | 7.8 | 8.0 | 8.1 | 8.2 | 6.6 | 7.7 | 7.9 | 8.0 | 8.1 | 6.7 | 26.0 |
| | 28.0 | 7.0 | 7.2 | 7.3 | 7.4 | 6.5 | 6.9 | 7.0 | 7.2 | 7.3 | 6.5 | 6.8 | 7.0 | 7.1 | 7.2 | 6.6 | 28.0 |
| | 30.0 | 6.3 | 6.4 | 6.5 | 6.6 | 6.4 | 6.1 | 6.3 | 6.4 | 6.5 | 6.4 | 6.1 | 6.2 | 6.3 | 6.4 | 6.5 | 30.0 |
| | 32.0 | 5.6 | 5.7 | 5.8 | 5.9 | 6.0 | 5.4 | 5.6 | 5.7 | 5.8 | 5.8 | 5.4 | 5.5 | 5.6 | 5.7 | 5.8 | 32.0 |
| | 34.0 | 5.0 | 5.1 | 5.2 | 5.3 | 5.4 | 4.9 | 5.0 | 5.1 | 5.2 | 5.2 | 4.8 | 4.9 | 5.0 | 5.1 | 5.2 | 34.0 |
| | 36.0 | 4.5 | 4.6 | 4.7 | 4.8 | 4.9 | 4.4 | 4.5 | 4.6 | 4.7 | 4.7 | 4.3 | 4.4 | 4.5 | 4.6 | 4.6 | 36.0 |
| | 38.0 | 4.1 | 4.2 | 4.3 | 4.3 | 4.4 | 3.9 | 4.0 | 4.1 | 4.2 | 4.3 | 3.8 | 3.9 | 4.0 | 4.1 | 4.2 | 38.0 |
| | 40.0 | 3.6 | 3.8 | 3.9 | 3.9 | 4.0 | 3.5 | 3.6 | 3.7 | 3.8 | 3.8 | 3.4 | 3.5 | 3.6 | 3.7 | 3.8 | 40.0 |
| | 42.0 | 3.3 | 3.4 | 3.5 | 3.6 | 3.6 | 3.1 | 3.2 | 3.3 | 3.4 | 3.5 | 3.0 | 3.1 | 3.3 | 3.3 | 3.4 | 42.0 |
| | 44.0 | 2.9 | 3.1 | 3.1 | 3.2 | 3.3 | 2.7 | 2.9 | 3.0 | 3.1 | 3.1 | 2.6 | 2.7 | 2.9 | 3.0 | 3.0 | 44.0 |
| | 46.0 | 2.6 | 2.7 | 2.8 | 2.9 | 3.0 | 2.4 | 2.5 | 2.6 | 2.7 | 2.8 | 2.2 | 2.4 | 2.5 | 2.6 | 2.7 | 46.0 |
| | 48.0 | 2.2 | 2.4 | 2.5 | 2.6 | 2.6 | 2.0 | 2.2 | 2.3 | 2.4 | 2.4 | 1.9 | 2.1 | 2.2 | 2.3 | 2.3 | 48.0 |
| | 50.0 | 2.0 | 2.1 | 2.2 | 2.3 | 2.3 | 1.7 | 1.9 | 2.0 | 2.1 | 2.1 | 1.6 | 1.8 | 1.9 | 2.0 | 2.0 | 50.0 |
| | 52.0 | 1.7 | 1.8 | 1.9 | 2.0 | 2.1 | | 1.6 | 1.7 | 1.8 | 1.8 | | | 1.6 | 1.7 | 1.7 | 52.0 |
| | 54.0 | | 1.6 | 1.7 | 1.7 | 1.8 | | | | 1.5 | 1.6 | | | | | | 54.0 |
| | 56.0 | | | | 1.5 | 1.6 | | | | | | | | | | | 56.0 |
| | Reeves | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.



Fixed Jib Lifting Capacities (Without Main Hook Block)

(Jib Offset Angle : 30°)

Counterweight: 34.6 t
Carbody Weight: 6.5 t

Unit: metric ton

| Boom length (m) | | 27.4 | | | | | 30.5 | | | | | 33.5 | | | | | Boom length (m) |
|--------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| Jib length (m) | | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) |
| Working radius (m) | 12.0 | 9.5 | | | | | | | | | | | | | | | 12.0 |
| | 14.0 | 9.5 | 7.0 | | | | 9.5 | | | | | 9.5 | | | | | 14.0 |
| | 16.0 | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | | | | 9.5 | 7.0 | | | | 16.0 |
| | 18.0 | 9.5 | 7.0 | 5.2 | 4.2 | | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | 5.2 | | | 18.0 |
| | 20.0 | 9.5 | 7.0 | 5.2 | 4.2 | 4.2 | 9.5 | 7.0 | 5.2 | 4.2 | | 9.5 | 7.0 | 5.2 | 4.2 | | 20.0 |
| | 22.0 | 9.1 | 6.7 | 5.2 | 4.2 | 4.0 | 9.4 | 6.9 | 5.2 | 4.2 | 4.1 | 9.5 | 7.0 | 5.2 | 4.2 | 4.1 | 22.0 |
| | 24.0 | 8.6 | 6.4 | 5.1 | 4.2 | 3.7 | 8.9 | 6.5 | 5.2 | 4.2 | 3.8 | 9.2 | 6.7 | 5.2 | 4.2 | 3.9 | 24.0 |
| | 26.0 | | 6.1 | 4.9 | 4.1 | 3.5 | 8.6 | 6.3 | 5.0 | 4.2 | 3.6 | 8.8 | 6.4 | 5.1 | 4.2 | 3.7 | 26.0 |
| | 28.0 | | 5.8 | 4.6 | 3.9 | 3.3 | 8.2 | 6.0 | 4.8 | 4.0 | 3.4 | 8.1 | 6.2 | 4.9 | 4.1 | 3.5 | 28.0 |
| | 30.0 | | | 4.5 | 3.7 | 3.2 | | 5.8 | 4.6 | 3.8 | 3.3 | 7.3 | 6.0 | 4.7 | 3.9 | 3.3 | 30.0 |
| | 32.0 | | | 4.3 | 3.6 | 3.0 | | | 4.4 | 3.7 | 3.1 | | 5.8 | 4.5 | 3.8 | 3.2 | 32.0 |
| | 34.0 | | | | 3.4 | 2.9 | | | | 3.5 | 3.0 | | | 4.4 | 3.6 | 3.1 | 34.0 |
| | 36.0 | | | | | 2.8 | | | | 3.4 | 2.9 | | | | 3.5 | 3.0 | 36.0 |
| | 38.0 | | | | | 2.7 | | | | | 2.8 | | | | 3.4 | 2.9 | 38.0 |
| | 40.0 | | | | | | | | | | | | | | | 2.8 | 40.0 |
| | Reeves | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

| Boom length (m) | | 36.6 | | | | | 39.6 | | | | | 42.7 | | | | | Boom length (m) |
|--------------------|--------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| Jib length (m) | | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) |
| Working radius (m) | 14.0 | 9.5 | | | | | 9.5 | | | | | | | | | | 14.0 |
| | 16.0 | 9.5 | 7.0 | | | | 9.5 | 7.0 | | | | 9.5 | | | | | 16.0 |
| | 18.0 | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | | | | 18.0 |
| | 20.0 | 9.5 | 7.0 | 5.2 | 4.2 | | 9.5 | 7.0 | 5.2 | 4.2 | | 9.5 | 7.0 | 5.2 | | | 20.0 |
| | 22.0 | 9.5 | 7.0 | 5.2 | 4.2 | 4.2 | 9.5 | 7.0 | 5.2 | 4.2 | 4.2 | 9.5 | 7.0 | 5.2 | 4.2 | | 22.0 |
| | 24.0 | 9.5 | 6.9 | 5.2 | 4.2 | 4.0 | 9.5 | 7.0 | 5.2 | 4.2 | 4.0 | 9.5 | 7.0 | 5.2 | 4.2 | 4.1 | 24.0 |
| | 26.0 | 8.9 | 6.6 | 5.2 | 4.2 | 3.8 | 8.8 | 6.7 | 5.2 | 4.2 | 3.8 | 8.7 | 6.9 | 5.2 | 4.2 | 3.9 | 26.0 |
| | 28.0 | 8.0 | 6.3 | 5.0 | 4.2 | 3.6 | 7.9 | 6.5 | 5.1 | 4.2 | 3.6 | 7.8 | 6.6 | 5.2 | 4.2 | 3.7 | 28.0 |
| | 30.0 | 7.2 | 6.1 | 4.8 | 4.0 | 3.4 | 7.1 | 6.3 | 4.9 | 4.1 | 3.5 | 7.0 | 6.4 | 5.0 | 4.2 | 3.6 | 30.0 |
| | 32.0 | 6.5 | 5.9 | 4.7 | 3.8 | 3.3 | 6.4 | 6.1 | 4.8 | 3.9 | 3.3 | 6.3 | 6.2 | 4.9 | 4.0 | 3.4 | 32.0 |
| | 34.0 | | 5.7 | 4.5 | 3.7 | 3.1 | | 5.9 | 4.6 | 3.8 | 3.2 | 5.7 | 5.9 | 4.7 | 3.9 | 3.3 | 34.0 |
| | 36.0 | | | 4.4 | 3.6 | 3.0 | | 5.4 | 4.5 | 3.7 | 3.1 | 5.2 | 5.3 | 4.6 | 3.7 | 3.2 | 36.0 |
| | 38.0 | | | 4.2 | 3.5 | 2.9 | | | 4.3 | 3.5 | 3.0 | | 4.9 | 4.4 | 3.6 | 3.1 | 38.0 |
| | 40.0 | | | | 3.4 | 2.8 | | | | 3.4 | 2.9 | | | 4.3 | 3.5 | 3.0 | 40.0 |
| | 42.0 | | | | | 2.7 | | | | 3.4 | 2.8 | | | | 3.4 | 2.9 | 42.0 |
| | 44.0 | | | | | 2.7 | | | | | 2.7 | | | | 3.3 | 2.8 | 44.0 |
| | 46.0 | | | | | | | | | | | | | | | 2.7 | 46.0 |
| | Reeves | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

LIFTING CAPACITIES

| Fixed Jib Lifting Capacities (Without Main Hook Block) (Jib Offset Angle : 30°) | | | | | | | | | | | | | | | | Counterweight: 34.6 t Carbody Weight: 6.5 t | |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|-----------------|
| Unit: metric ton | | | | | | | | | | | | | | | | | |
| Boom length (m) | | 45.7 | | | | | 48.8 | | | | | 51.8 | | | | | Boom length (m) |
| Jib length (m) | | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) |
| Working radius (m) | 16.0 | 9.5 | | | | | 9.5 | | | | | 9.5 | | | | | 16.0 |
| | 18.0 | 9.5 | 7.0 | | | | 9.5 | 7.0 | | | | 9.5 | 7.0 | | | | 18.0 |
| | 20.0 | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | 5.2 | | | 20.0 |
| | 22.0 | 9.5 | 7.0 | 5.2 | 4.2 | | 9.5 | 7.0 | 5.2 | 4.2 | | 9.5 | 7.0 | 5.2 | 4.2 | | 22.0 |
| | 24.0 | 9.5 | 7.0 | 5.2 | 4.2 | 4.1 | 9.5 | 7.0 | 5.2 | 4.2 | 4.2 | 9.5 | 7.0 | 5.2 | 4.2 | 4.2 | 24.0 |
| | 26.0 | 8.6 | 7.0 | 5.2 | 4.2 | 3.9 | 8.5 | 7.0 | 5.2 | 4.2 | 4.0 | 8.4 | 7.0 | 5.2 | 4.2 | 4.0 | 26.0 |
| | 28.0 | 7.6 | 6.8 | 5.2 | 4.2 | 3.8 | 7.6 | 6.9 | 5.2 | 4.2 | 3.8 | 7.4 | 7.0 | 5.2 | 4.2 | 3.9 | 28.0 |
| | 30.0 | 6.8 | 6.5 | 5.1 | 4.2 | 3.6 | 6.8 | 6.7 | 5.2 | 4.2 | 3.7 | 6.7 | 6.8 | 5.2 | 4.2 | 3.7 | 30.0 |
| | 32.0 | 6.1 | 6.3 | 5.0 | 4.1 | 3.5 | 6.1 | 6.3 | 5.0 | 4.1 | 3.5 | 6.0 | 6.2 | 5.1 | 4.2 | 3.6 | 32.0 |
| | 34.0 | 5.5 | 5.7 | 4.8 | 3.9 | 3.3 | 5.5 | 5.7 | 4.9 | 4.0 | 3.4 | 5.4 | 5.6 | 5.0 | 4.1 | 3.4 | 34.0 |
| | 36.0 | 5.0 | 5.2 | 4.7 | 3.8 | 3.2 | 4.9 | 5.1 | 4.7 | 3.9 | 3.3 | 4.8 | 5.0 | 4.8 | 3.9 | 3.3 | 36.0 |
| | 38.0 | 4.6 | 4.7 | 4.5 | 3.7 | 3.1 | 4.5 | 4.6 | 4.6 | 3.8 | 3.2 | 4.4 | 4.5 | 4.7 | 3.8 | 3.2 | 38.0 |
| | 40.0 | | | 4.4 | 3.6 | 3.0 | | 4.2 | 4.4 | 3.7 | 3.1 | 3.9 | 4.1 | 4.2 | 3.7 | 3.1 | 40.0 |
| | 42.0 | | | 4.0 | 3.5 | 2.9 | | 3.8 | 4.0 | 3.6 | 3.0 | | 3.7 | 3.9 | 3.6 | 3.0 | 42.0 |
| | 44.0 | | | | 3.4 | 2.8 | | | 3.6 | 3.5 | 2.9 | | 3.4 | 3.5 | 3.5 | 2.9 | 44.0 |
| | 46.0 | | | | | 2.8 | | | | 3.4 | 2.8 | | | 3.2 | 3.3 | 2.9 | 46.0 |
| | 48.0 | | | | | 2.7 | | | | 3.1 | 2.7 | | | | 3.0 | 2.8 | 48.0 |
| | 50.0 | | | | | 2.6 | | | | | 2.7 | | | | 2.7 | 2.7 | 50.0 |
| | 52.0 | | | | | | | | | | | | | | | 2.5 | 52.0 |
| Reeves | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

| Boom length (m) | | 54.9 | | | | | 57.9 | | | | | 61.0 | | | | | Boom length (m) |
|--------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----------------|
| Jib length (m) | | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | 9.1 | 12.2 | 15.2 | 18.3 | 21.3 | Jib length (m) |
| Working radius (m) | 18.0 | 9.5 | | | | | 9.5 | | | | | 9.5 | | | | | 18.0 |
| | 20.0 | 9.5 | 7.0 | | | | 9.5 | 7.0 | | | | 9.5 | 7.0 | | | | 20.0 |
| | 22.0 | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | 5.2 | | | 9.5 | 7.0 | 5.2 | | | 22.0 |
| | 24.0 | 9.4 | 7.0 | 5.2 | 4.2 | | 9.3 | 7.0 | 5.2 | 4.2 | | 9.2 | 7.0 | 5.2 | 4.2 | | 24.0 |
| | 26.0 | 8.3 | 7.0 | 5.2 | 4.2 | 4.1 | 8.1 | 7.0 | 5.2 | 4.2 | 4.1 | 8.1 | 7.0 | 5.2 | 4.2 | 4.1 | 26.0 |
| | 28.0 | 7.3 | 7.0 | 5.2 | 4.2 | 3.9 | 7.2 | 7.0 | 5.2 | 4.2 | 4.0 | 7.1 | 7.0 | 5.2 | 4.2 | 4.0 | 28.0 |
| | 30.0 | 6.5 | 6.8 | 5.2 | 4.2 | 3.8 | 6.4 | 6.6 | 5.2 | 4.2 | 3.8 | 6.3 | 6.6 | 5.2 | 4.2 | 3.8 | 30.0 |
| | 32.0 | 5.8 | 6.0 | 5.2 | 4.2 | 3.6 | 5.7 | 5.9 | 5.2 | 4.2 | 3.7 | 5.6 | 5.9 | 5.2 | 4.2 | 3.7 | 32.0 |
| | 34.0 | 5.2 | 5.4 | 5.0 | 4.1 | 3.5 | 5.1 | 5.3 | 5.1 | 4.2 | 3.5 | 5.0 | 5.3 | 5.2 | 4.2 | 3.6 | 34.0 |
| | 36.0 | 4.7 | 4.9 | 4.9 | 4.0 | 3.4 | 4.6 | 4.8 | 4.9 | 4.1 | 3.4 | 4.5 | 4.7 | 4.9 | 4.1 | 3.5 | 36.0 |
| | 38.0 | 4.2 | 4.4 | 4.6 | 3.9 | 3.3 | 4.1 | 4.3 | 4.4 | 3.9 | 3.3 | 4.0 | 4.2 | 4.4 | 4.0 | 3.4 | 38.0 |
| | 40.0 | 3.8 | 4.0 | 4.1 | 3.8 | 3.2 | 3.7 | 3.8 | 4.0 | 3.8 | 3.2 | 3.6 | 3.8 | 3.9 | 3.9 | 3.3 | 40.0 |
| | 42.0 | 3.4 | 3.6 | 3.7 | 3.7 | 3.1 | 3.3 | 3.4 | 3.6 | 3.7 | 3.1 | 3.2 | 3.4 | 3.5 | 3.7 | 3.2 | 42.0 |
| | 44.0 | 3.1 | 3.2 | 3.4 | 3.5 | 3.0 | 2.9 | 3.1 | 3.2 | 3.4 | 3.0 | 2.8 | 3.0 | 3.2 | 3.3 | 3.1 | 44.0 |
| | 46.0 | | | 3.0 | 3.2 | 2.9 | | 2.7 | 2.9 | 3.0 | 3.0 | 2.4 | 2.6 | 2.8 | 3.0 | 3.0 | 46.0 |
| | 48.0 | | | 2.7 | 2.9 | 2.8 | | | 2.6 | 2.7 | 2.9 | | 2.3 | 2.5 | 2.6 | 2.8 | 48.0 |
| | 50.0 | | | | 2.6 | 2.7 | | | 2.2 | 2.4 | 2.5 | | 2.0 | 2.1 | 2.3 | 2.4 | 50.0 |
| | 52.0 | | | | | 2.4 | | | | 2.1 | 2.2 | | | 1.8 | 2.0 | 2.1 | 52.0 |
| | 54.0 | | | | | 2.1 | | | | | 1.9 | | | | 1.7 | 1.8 | 54.0 |
| | 56.0 | | | | | | | | | | 1.7 | | | | | 1.6 | 56.0 |
| Reeves | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | Reeves |

Note:

Ratings according to EN13000.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA FOR CLAMSHELL RATING CHART

- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- The weight of bucket, slings and all other load handling accessories shall be considered part of the lifted load.
- 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. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Rated loads do not exceed 66% of minimum tipping loads.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 10 parts of line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Crawler frames must be fully extended for all crane operations.

(Clamshell bucket lifting)

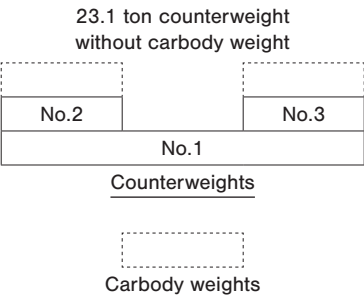
- The total load that can be lifted is the value of the weight of bucket, slings, and all other load handling accessories deducted from main boom ratings shown.
- The weight of bucket and materials must not exceed rated load.
- Optimum bucket should be required according to material.
- $\text{Bucket capacity (m}^3\text{)} \times \text{specified gravity of material (ton/m}^3\text{)} + \text{bucket weight (ton)} = \text{rated load.}$
- Bucket weight must also be decreased according to operating cycle and bucket lowering height.
- Rated loads are determined by stability and boom strength. During simultaneous operations of boom and swing, rapid acceleration or deceleration must be avoided.
- Do not attempt to cast the bucket while swinging or diagonal draw-cutting.

<Reference Information>

Main hoist loads

| | |
|----------------------|------|
| No. of Parts of Line | 1 |
| Maximum Loads (kN) | 98 |
| Maximum Loads (t) | 10.0 |

Assembling the counterweight



Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

LIFTING CAPACITIES

| Clamshell Rating Charts | | | | | | | | | | Counterweight: 23.1 t Without Carbody Weight Crawler Fully Extended | |
|-------------------------|-----------------------|------|------|------|------|--|--|--|--|---|--------------------|
| | | | | | | | | | | Unit: metric ton | |
| Load radius (m) | Boom length (m) | 15.2 | 18.3 | 21.3 | 24.4 | | | | | Boom length (m) | Load radius (m) |
| | | | | | | | | | | | |
| 7.0 | | 10.0 | | | | | | | | | 7.0 |
| 8.0 | | 10.0 | 10.0 | | | | | | | | 8.0 |
| 9.0 | | 10.0 | 10.0 | 10.0 | | | | | | | 9.0 |
| 10.0 | | 10.0 | 10.0 | 10.0 | 9.4 | | | | | | 10.0 |
| 11.0 | | 10.0 | 10.0 | 10.0 | 9.3 | | | | | | 11.0 |
| 12.0 | | 10.0 | 10.0 | 10.0 | 9.3 | | | | | | 12.0 |
| 13.0 | | 10.0 | 10.0 | 10.0 | 9.3 | | | | | | 13.0 |
| 14.0 | | 10.0 | 10.0 | 10.0 | 9.3 | | | | | | 14.0 |
| 15.0 | | | 10.0 | 10.0 | 9.3 | | | | | | 15.0 |
| 16.0 | | | 9.8 | 9.9 | 9.0 | | | | | | 16.0 |
| 17.0 | | | | 9.3 | 8.8 | | | | | | 17.0 |
| 18.0 | | | | 8.6 | 8.6 | | | | | | 18.0 |
| 19.0 | | | | 7.9 | 8.2 | | | | | | 19.0 |
| 20.0 | | | | | 7.6 | | | | | | 20.0 |
| 21.0 | | | | | 7.1 | | | | | | 21.0 |
| 22.0 | | | | | | | | | | | 22.0 |
| 23.0 | | | | | | | | | | | 23.0 |
| 24.0 | | | | | | | | | | | 24.0 |
| 25.0 | | | | | | | | | | | 25.0 |
| 26.0 | | | | | | | | | | | 26.0 |
| 27.0 | | | | | | | | | | | 27.0 |
| 28.0 | | | | | | | | | | | 28.0 |
| 29.0 | | | | | | | | | | | 29.0 |
| 30.0 | | | | | | | | | | | 30.0 |
| 31.0 | | | | | | | | | | | 31.0 |
| 32.0 | | | | | | | | | | | 32.0 |
| 33.0 | | | | | | | | | | | 33.0 |
| Reeves | | 1 | 1 | 1 | 1 | | | | | | Reeves |

Note:
Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA FOR REDUCED WEIGHTS RATING CHART

- Ratings according to EN13000.
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- The weight of hook block(s), slings and all other load handling accessories shall be considered part of the lifted load.
- 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. The operator, therefore, has the responsibility to judge the existing conditions and reduce lifted loads and operating speeds accordingly.
- Ratings are for operation on a firm and level surface, up to 1% gradient.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 10 parts of line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are based on structural competence.
- The minimum rated load is 1.5 (ton).
- Crawler frames must be fully extended for all crane operations.

(Crane boom lifting)

- The total load that can be lifted is the value of the weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

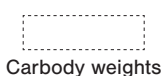
| Counterweight | Carbody weight | Boom length | |
|---------------|----------------|------------------|------------------|
| | | Without aux. | With aux. |
| 23.1 ton | Without | 15.2 m to 57.9 m | 15.2 m to 54.9 m |

Assembling the counterweight

23.1 ton counterweight
without carbody weight



Counterweights



<Reference Information>

Main hoist loads

| No. of Parts of Line | 1 | 2 | 3 | 4 | 5 |
|----------------------|------|------|------|------|------|
| Maximum Loads (kN) | 108 | 216 | 324 | 431 | 539 |
| Maximum Loads (t) | 11.0 | 22.0 | 33.0 | 44.0 | 55.0 |

| No. of Parts of Line | 6 | 7 | 8 | 9 | 10 |
|----------------------|------|------|------|------|-------|
| Maximum Loads (kN) | 647 | 755 | 863 | 971 | 1,079 |
| Maximum Loads (t) | 66.0 | 77.0 | 88.0 | 99.0 | 110.0 |

Auxiliary hoist loads

| No. of Parts of Line | 1 | 2 |
|----------------------|------|------|
| Maximum Loads (kN) | 108 | 216 |
| Maximum Loads (t) | 11.0 | 22.0 |

| Weight of hook block | | | | |
|----------------------|-------|------|------|-----------|
| Hook Block | 110 t | 70 t | 35 t | Ball Hook |
| Weight (t) | 1.7 | 0.9 | 0.7 | 0.45 |

Operation of this equipment in excess of rated loads
or disregard of instruction voids the warranty.

LIFTING CAPACITIES

| Reduced Weights Rating Charts | | | | | | | | | | | | Counterweight: 23.1 t Without Carbody Weight Crawler Fully Extended | |
|-------------------------------|-----------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|------|---|-----------------------|
| Unit: metric ton | | | | | | | | | | | | | |
| 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 | Boom length (m) | Working radius (m) |
| | | | | | | | | | | | | | |
| 3.5 | 3.6m/94.2 | | | | | | | | | | | | 3.5 |
| 4.0 | 85.3 | 4.1m/83.3 | | | | | | | | | | | 4.0 |
| 4.5 | 76.2 | 75.7 | 4.6m/69.2 | | | | | | | | | | 4.5 |
| 5.0 | 68.9 | 66.0 | 62.3 | 59.1 | | | | | | | | | 5.0 |
| 5.5 | 58.9 | 58.4 | 55.5 | 52.8 | 5.5m/50.4 | 5.9m/44.6 | | | | | | | 5.5 |
| 6.0 | 50.8 | 50.4 | 49.9 | 47.8 | 45.7 | 43.8 | 6.4m/39.2 | 6.8m/35.4 | | | | | 6.0 |
| 7.0 | 39.6 | 39.3 | 39.0 | 38.7 | 38.4 | 37.0 | 35.6 | 34.4 | 7.3m/31.7 | 7.8m/28.6 | | | 7.0 |
| 8.0 | 32.3 | 32.3 | 32.2 | 32.1 | 32.0 | 31.9 | 30.8 | 29.9 | 28.8 | 27.9 | | | 8.0 |
| 9.0 | 27.2 | 27.2 | 27.2 | 27.2 | 27.2 | 27.1 | 27.0 | 26.3 | 25.4 | 24.7 | | | 9.0 |
| 10.0 | 23.5 | 23.5 | 23.5 | 23.5 | 23.4 | 23.3 | 23.2 | 23.2 | 22.7 | 22.0 | | | 10.0 |
| 12.0 | 18.2 | 18.2 | 18.2 | 18.2 | 18.1 | 18.0 | 18.0 | 17.9 | 17.9 | 17.7 | | | 12.0 |
| 14.0 | 14.8 | 14.8 | 14.8 | 14.8 | 14.7 | 14.6 | 14.5 | 14.4 | 14.4 | 14.2 | | | 14.0 |
| 16.0 | 14.4m/14.3 | 12.5 | 12.4 | 12.3 | 12.2 | 12.1 | 12.0 | 12.0 | 11.9 | 11.8 | | | 16.0 |
| 18.0 | | 17.1m/11.5 | 10.6 | 10.5 | 10.4 | 10.3 | 10.2 | 10.1 | 10.0 | 9.9 | | | 18.0 |
| 20.0 | | | 19.7m/9.4 | 9.1 | 9.0 | 8.9 | 8.7 | 8.7 | 8.6 | 8.5 | | | 20.0 |
| 22.0 | | | | 8.0 | 7.9 | 7.7 | 7.6 | 7.6 | 7.5 | 7.4 | | | 22.0 |
| 24.0 | | | | 22.4m/7.8 | 7.0 | 6.8 | 6.7 | 6.7 | 6.6 | 6.4 | | | 24.0 |
| 26.0 | | | | | 25.0m/6.5 | 6.1 | 5.9 | 5.9 | 5.8 | 5.7 | | | 26.0 |
| 28.0 | | | | | | 27.6m/5.6 | 5.3 | 5.3 | 5.1 | 5.0 | | | 28.0 |
| 30.0 | | | | | | | 4.8 | 4.7 | 4.6 | 4.5 | | | 30.0 |
| 32.0 | | | | | | | 30.3m/4.6 | 4.3 | 4.1 | 4.0 | | | 32.0 |
| 34.0 | | | | | | | | 32.9m/4.1 | 3.7 | 3.5 | | | 34.0 |
| 36.0 | | | | | | | | | 35.6m/3.3 | 3.1 | | | 36.0 |
| 38.0 | | | | | | | | | | 2.8 | | | 38.0 |
| 40.0 | | | | | | | | | | 38.2m/2.6 | | | 40.0 |
| 42.0 | | | | | | | | | | | | | 42.0 |
| 44.0 | | | | | | | | | | | | | 44.0 |
| Reeves | 10 | 8 | 7 | 6 | 5 | 5 | 4 | 4 | 3 | 3 | | Reeves | |

| Working radius (m) | Boom length (m) | 45.7 | 48.8 | 51.8 | 54.9 | 57.9 | | | | | | Boom length (m) | Working radius (m) |
|--------------------|-----------------|-----------|-----------|-----------|------|------|--|--|--|--|--|-----------------|--------------------|
| 8.0 | 8.2m/26.3 | 8.7m/24.0 | | | | | | | | | | 8.0 | |
| 9.0 | 23.9 | 23.2 | 9.1m/22.2 | 9.6m/20.3 | | | | | | | | 9.0 | |
| 10.0 | 21.3 | 20.8 | 20.1 | 19.5 | 18.9 | | | | | | | 10.0 | |
| 12.0 | 17.4 | 17.0 | 16.5 | 16.0 | 15.5 | | | | | | | 12.0 | |
| 14.0 | 14.1 | 14.0 | 13.8 | 13.4 | 13.0 | | | | | | | 14.0 | |
| 16.0 | 11.6 | 11.6 | 11.4 | 11.4 | 11.0 | | | | | | | 16.0 | |
| 18.0 | 9.8 | 9.7 | 9.6 | 9.6 | 9.4 | | | | | | | 18.0 | |
| 20.0 | 8.3 | 8.3 | 8.1 | 8.1 | 8.0 | | | | | | | 20.0 | |
| 22.0 | 7.2 | 7.1 | 7.0 | 7.0 | 6.8 | | | | | | | 22.0 | |
| 24.0 | 6.3 | 6.2 | 6.1 | 6.0 | 5.9 | | | | | | | 24.0 | |
| 26.0 | 5.5 | 5.4 | 5.3 | 5.3 | 5.1 | | | | | | | 26.0 | |
| 28.0 | 4.9 | 4.8 | 4.6 | 4.6 | 4.5 | | | | | | | 28.0 | |
| 30.0 | 4.3 | 4.2 | 4.1 | 4.0 | 3.8 | | | | | | | 30.0 | |
| 32.0 | 3.8 | 3.7 | 3.5 | 3.5 | 3.3 | | | | | | | 32.0 | |
| 34.0 | 3.3 | 3.3 | 3.1 | 3.0 | 2.8 | | | | | | | 34.0 | |
| 36.0 | 2.9 | 2.9 | 2.7 | 2.6 | 2.4 | | | | | | | 36.0 | |
| 38.0 | 2.6 | 2.5 | 2.3 | 2.2 | 2.1 | | | | | | | 38.0 | |
| 40.0 | 2.2 | 2.2 | 2.0 | 1.9 | 1.7 | | | | | | | 40.0 | |
| 42.0 | 40.8m/2.1 | 1.9 | 1.7 | 1.6 | | | | | | | | 42.0 | |
| 44.0 | | 43.5m/1.6 | | | | | | | | | | 44.0 | |
| 46.0 | | | | | | | | | | | | 46.0 | |
| 48.0 | | | | | | | | | | | | 48.0 | |
| 50.0 | | | | | | | | | | | | 50.0 | |
| 52.0 | | | | | | | | | | | | 52.0 | |
| 54.0 | | | | | | | | | | | | 54.0 | |
| 56.0 | | | | | | | | | | | | 56.0 | |
| 58.0 | | | | | | | | | | | | 58.0 | |
| Reeves | | 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.

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

SUPPLEMENTAL DATA FOR BARGE RATING CHART

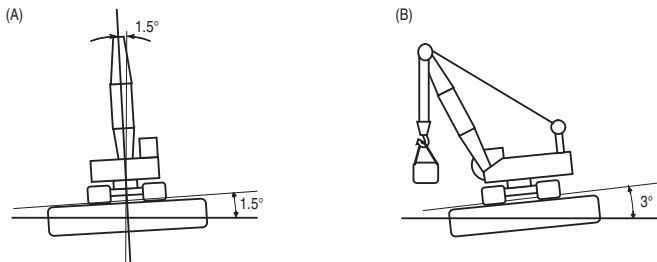
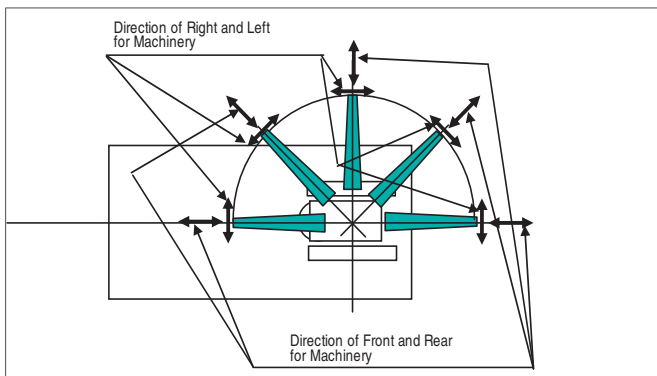
- Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity of the load.
- The weight of hook block(s), slings and all other load handling accessories shall be considered part of the lifted load.
- Condition of barge stability this rating chart were determined under the condition below. The stability of barge shall meet below condition. During operation the machinery static inclination against horizontal level.

(A) Both sides (right & left) of machine

Maximum inclination shall be within 1.5 degrees

(B) Front & backward of machine

Maximum inclination shall be within 3.0 degrees



- Working area shall be inshore and smooth water.
- Applicable regulations for structure Japanese construction codes for mobile crane
 - * Regulation of class of shipping (abs, lloyd, bv, nk, etc) are not adapted.
- At radii and boom lengths where no ratings are shown on chart, operation is not intended nor approved.
- Boom inserts and guy lines must be arranged as shown in the "operator's manual".
- Boom hoist reeving is 10 parts of line.
- Gantry must be in raised position for all conditions.
- Boom backstops are required for all boom lengths.
- The boom should be erected over the front of the crawlers, not laterally.
- Ratings inside of boxes are based on structural competence.
- The minimum rated load is 1.5 (ton).
- Crawler frames must be fully extended for all crane operations.
- The machinery should be fastened to the deck of the barge to prevent tip over and sliding.
- Towing area
 - Towing area shall be within coastal area and quiet wave condition. Offshore and open sea is not considered for this machinery. Depend on the height of wave, counterweight shall be reduced during towing.

(Crane boom lifting)

- The total load that can be lifted is the value of the weight of hook block, slings, and all other load handling accessories deducted from main boom ratings shown.

<Reference Information>

Main hoist loads

| No. of Parts of Line | 1 | 2 | 3 | 4 | 5 |
|----------------------|------|------|------|------|------|
| Maximum Loads (kN) | 108 | 216 | 324 | 431 | 539 |
| Maximum Loads (t) | 11.0 | 22.0 | 33.0 | 44.0 | 55.0 |

| No. of Parts of Line | 6 |
|----------------------|------|
| Maximum Loads (kN) | 618 |
| Maximum Loads (t) | 63.0 |

Auxiliary hoist loads

| No. of Parts of Line | 1 | 2 |
|----------------------|------|------|
| Maximum Loads (kN) | 108 | 216 |
| Maximum Loads (t) | 11.0 | 22.0 |

| Weight of Hook Block | | | | |
|----------------------|-------|------|------|-----------|
| Hook Block | 110 t | 70 t | 35 t | Ball Hook |
| Weight (t) | 1.7 | 0.9 | 0.7 | 0.45 |

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.

LIFTING CAPACITIES

| Barge Raiting Chart Crane Boom Lifting Capacities | | | | | | | | | | Counterweight: 34.6 t Carbody Weight: 6.5 t Crawler Fully Extended | |
|--|-----------------------|------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|--|--------------------|
| Unit: metric ton | | | | | | | | | | | |
| Load radius (m) | Boom length (m) | 15.2 | 18.3 | 21.3 | 24.4 | 27.4 | 30.5 | 33.5 | 36.6 | Boom length (m) | Load radius (m) |
| | | | | | | | | | | | |
| 5.0 | | 63.0 | 5.5m/54.4 | | | | | | | | 5.0 |
| 6.0 | | 52.8 | 52.6 | 6.2m/46.4 | 6.9m/39.9 | | | | | | 6.0 |
| 7.0 | | 44.5 | 44.3 | 44.2 | 39.7 | 7.6m/35.1 | | | | | 7.0 |
| 8.0 | | 37.7 | 37.5 | 37.4 | 37.0 | 34.5 | 7.6m/30.8 | | | | 8.0 |
| 9.0 | | 32.4 | 32.3 | 32.2 | 31.9 | 31.7 | 29.9 | 27.4 | 9.6m/24.9 | | 9.0 |
| 10.0 | | 28.3 | 28.2 | 28.0 | 28.0 | 27.9 | 27.8 | 26.5 | 24.5 | | 10.0 |
| 12.0 | | 21.4 | 22.0 | 21.9 | 21.8 | 21.7 | 21.6 | 21.5 | 21.4 | | 12.0 |
| 14.0 | | 16.3 | 17.2 | 17.7 | 18.0 | 17.9 | 17.8 | 17.7 | 17.6 | | 14.0 |
| 16.0 | | 14.4m/15.3 | 13.5 | 14.0 | 14.9 | 15.3 | 15.2 | 15.1 | 15.0 | | 16.0 |
| 18.0 | | | 17.1m/11.9 | 11.3 | 12.2 | 12.8 | 13.2 | 13.1 | 13.0 | | 18.0 |
| 20.0 | | | | 19.7m/9.5 | 10.1 | 10.7 | 11.2 | 11.5 | 11.4 | | 20.0 |
| 22.0 | | | | | 8.4 | 9.0 | 9.5 | 9.8 | 10.0 | | 22.0 |
| 24.0 | | | | | 22.4m/8.1 | 7.6 | 8.1 | 8.4 | 8.7 | | 24.0 |
| 26.0 | | | | | | 25.0m/7.0 | 6.9 | 7.2 | 7.6 | | 26.0 |
| 28.0 | | | | | | | 27.6m/6.0 | 6.2 | 6.6 | | 28.0 |
| 30.0 | | | | | | | | 5.4 | 5.7 | | 30.0 |
| 32.0 | | | | | | | | 30.3m/5.3 | 5.0 | | 32.0 |
| 34.0 | | | | | | | | | 32.9m/4.7 | | 34.0 |
| Reeves | | 6 | 5 | 5 | 4 | 4 | 3 | 3 | 3 | | Reeves |

Note:

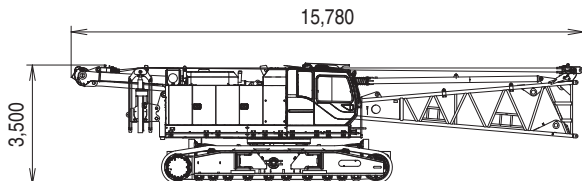
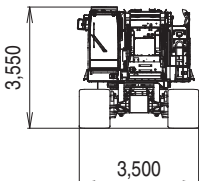
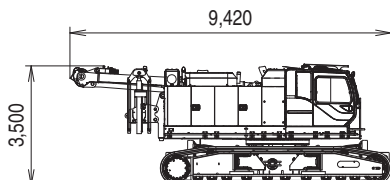
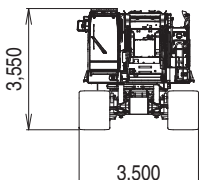
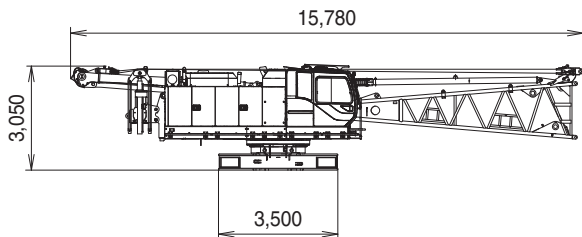
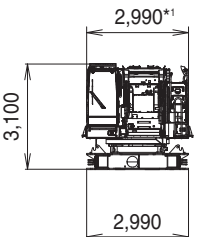
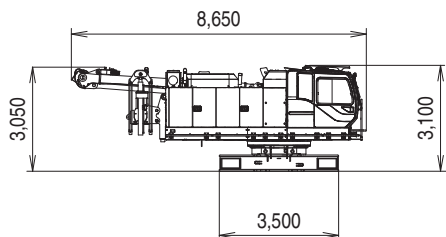
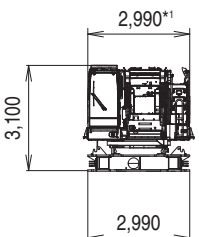

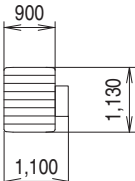
Ratings according to japanese construction codes for mobile cranes and japanese safety ordinance on cranes, etc.

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

Lifting capacities may vary depending on hook used or with/without auxiliary sheave.

Please refer rated chart in operator's cabin.

TRANSPORTATION PLAN

| Name | Dimension | Weight (kg) |
|---|---|-------------|
| Base Machine <ul style="list-style-type: none"> • Boom base • Gantry • Crawler • Wire rope (Front / rear / boom hoist) |   | 57,410 |
| Base Machine <ul style="list-style-type: none"> • Gantry • Crawler • Wire rope (Front / rear / boom hoist) |   | 54,090 |
| Base Machine <ul style="list-style-type: none"> • Boom base • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler • Without side steps |   | 33,550 |
| Base Machine <ul style="list-style-type: none"> • Gantry • Wire rope (Front / rear / boom hoist) • Without crawler • Without side steps |   | 30,230 |
| Crawler |   | 11,930 |

*1 With the side step on cabin side : 3,170
With the side steps on the both sides : 3,340

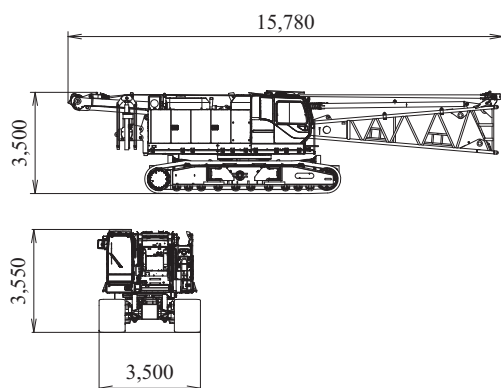
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PARTS AND ATTACHMENTS

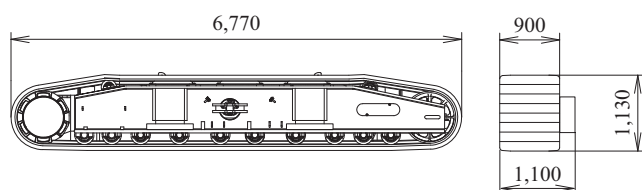
Base Machine

Boom base, Gantry, Crawler, Wire rope (Front/rear/boom hoist)
Weight: 57,410 kg Width: 3,500 mm



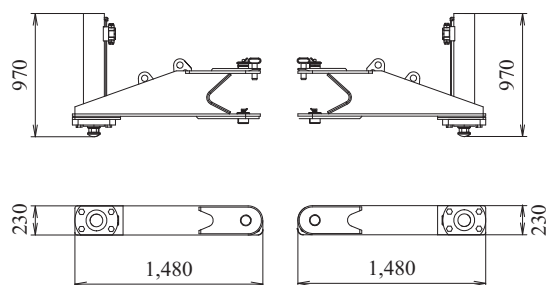
Crawler

Weight: 11,930 kg



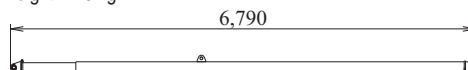
Translifter

Weight: 320 kg / 1 piece



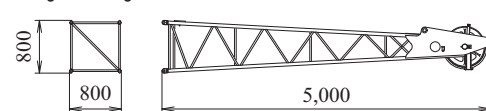
Backstop

Weight: 440 kg



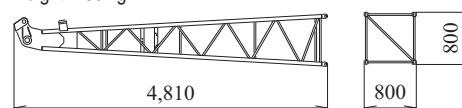
Jib Tip

Weight: 280 kg



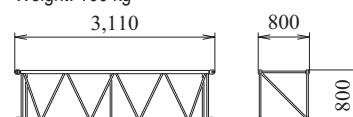
Jib Base

Weight: 200 kg



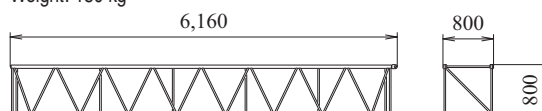
3.0 m Jib Insert

Weight: 100 kg



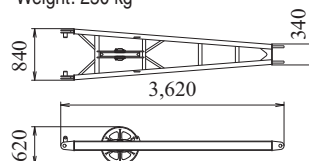
6.0 m Jib Insert

Weight: 180 kg



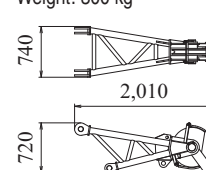
Strut

Weight: 250 kg



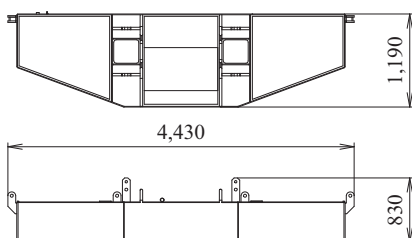
Auxiliary Sheave

Weight: 300 kg



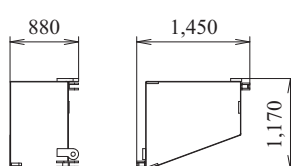
Counterweight No.1

Weight: 11,600 kg



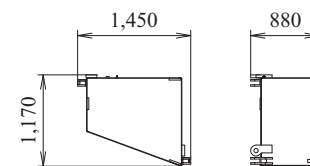
Counterweight No.3, No.5 (R)

Weight: 5,750 kg



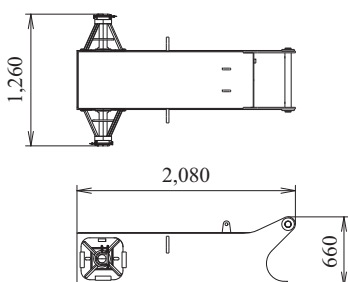
Counterweight No.2, No.4 (L)

Weight: 5,750 kg



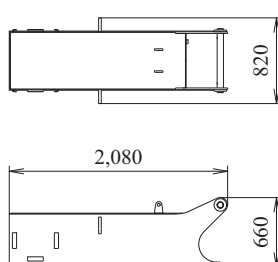
Carbody Weight (With float)

Weight: 3,320 kg / 1 piece



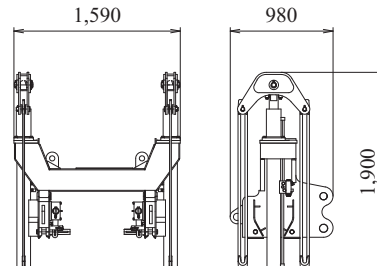
Carbody Weight (Without float)

Weight: 3,250 kg / 1 piece



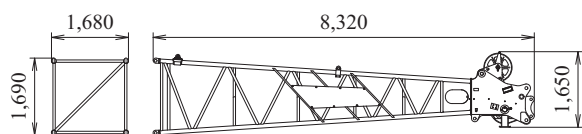
Self Removal Unit

Weight: 870 kg

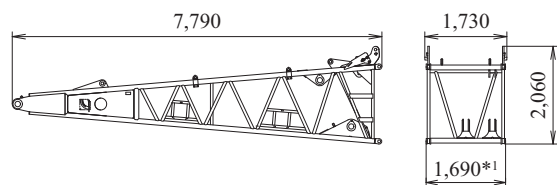


Boom Tip

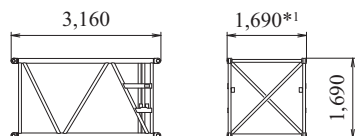
Weight: 1,525 kg

**Boom Base**

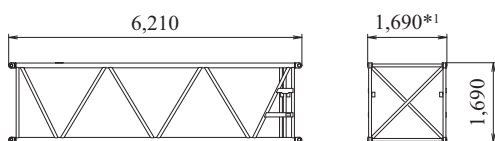
Weight: 2,235 kg

**3.0 m****Boom Insert**

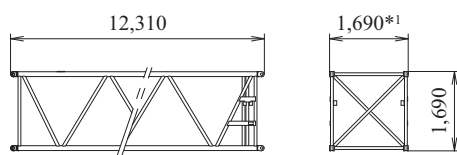
Weight: 380 kg

**6.1 m****Boom Insert**

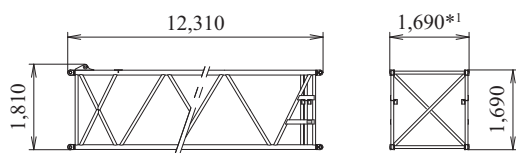
Weight: 655 kg

**12.2 m****Boom Insert**

Weight: 1,195 kg

**12.2 m****Boom Insert (with Lug)**

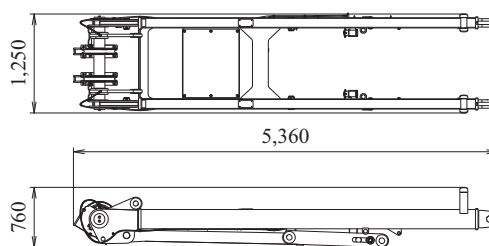
Weight: 1,220 kg



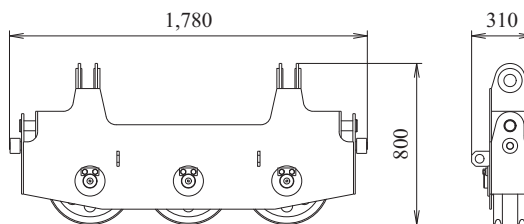
*1 Without pins

Gantry

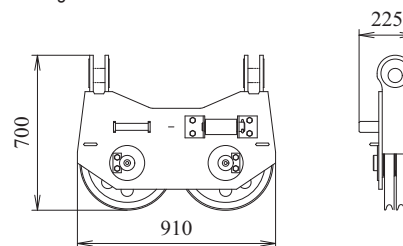
Weight: 1,320 kg

**Upper Spreader**

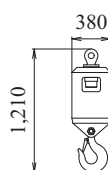
Weight: 300 kg

**Lower Spreader**

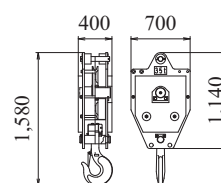
Weight: 200 kg

**Ball Hook**

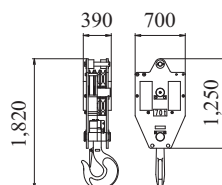
Weight: 450 kg

**35 t Hook**

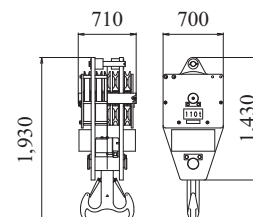
Weight: 700 kg


**70 t Hook**

Weight: 900 kg

**110 t Hook**

Weight: 1,700 kg





Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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