KOBELCO

HYDRAULIC CRAWLER CRANE

7200

Max. Lifting Capacity: 200 Tons at 4.5 Meters
Max. Boom Length: 73.2 Meters
Max. Luffing Tower Lifting Capacity: 25 Tons at 14.0 Meters
Max. Tower + Tower Jib Length: 58.0 + 48.8 Meters

- Maximum 200-ton Lifting Capacity:
  Bigger Performance in Smaller Areas
- Long Reach (Long Boom specs):
  Increases working radius and boosts long-outreach lifting capacity
- Simple Boom Construction:
  Dramatically Reduced Storage and Transport Costs
- Swing Cab:
  Upper Machinery Fits Within a Width of 3.2m During Transport
- Newly Designed Winch:
  Designed without free-fall to prevent the hook from accidentaly falling

Specifications may vary depending on geographical region.
The model shown above is equipped with optional features.

Configuration & Style of Attachment

Crawler Crane
Heavy-duty Boom

Max. Lifting Capacity:
200 metric ton x 4.5 m
Boom Length:
15.2 m to 73.2 m

Crawler Crane
Light-duty Boom

Max. Lifting Capacity:
150 metric ton x 6.0 m
Boom Length:
18.3 m to 76.2 m

Fixed Jib

Max. Lifting Capacity:
13.5 metric ton x 38.0 m
Max. Boom Length + Jib Length
73.2 m + 30.5 m

Crawler Crane
Long Boom

Max. Lifting Capacity:
37.5 metric ton x 14.4 m
Boom Length:
70.1 m to 88.4 m

Luffing Tower

Max. Lifting Capacity:
25 metric ton x 14.0 m
Max. Tower Length + Jib Length
58.0 m + 48.8 m

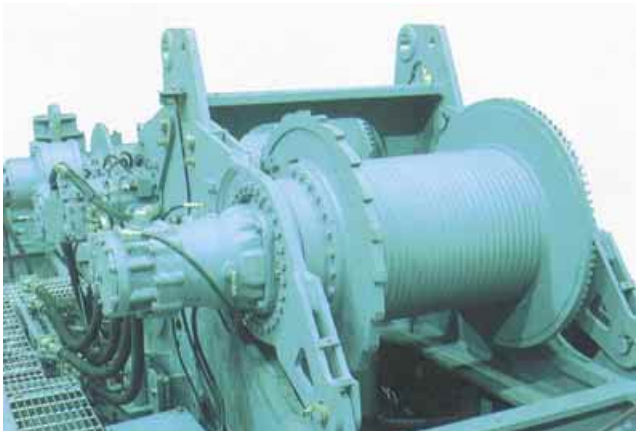
Note: The fixed jib and luffing tower illustrations do not show maximum boom or tower and jib lengths.

Features

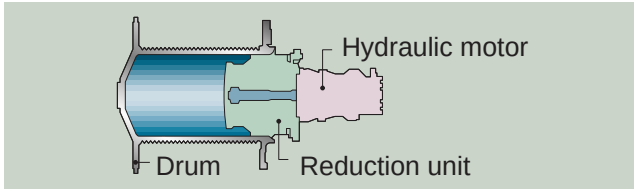
Performance

- **Large operating radius** permits a long reach from a close-up position.
- **Powerful winch** with a rated line pull of 12.5 tons (maximum 25 tons, single-line rated line pull of 13.5 tons).
- **Wide, large-capacity drums** with large single-layer capacity handle high jobs with ease.
- **Fast, 110m/min^{-1} line speed** ensures quick hoisting and lowering for excellent operating efficiency even without free fall.

- **Separate rear drum** permits the raising and lowering of luffing tower jib with the auxiliary winch without resetting the lines.
- **Mechatronic ESS system** helps prevent engine stalls during simultaneous operations and achieves high fuel efficiency while ensuring full power.
- **Travel motors** are mounted within the shoe width to prevent damage in rough terrain.
- **New-type winch** is designed without free fall to prevent the hook from accidentally falling because of operator error.



- **New no-free-fall winch:**
  Putting the hoisting lever in neutral stops the drum with the hydraulic holding valve. The disc (negative) brake installed in the hydraulic motor is activated to bring drum rotation to a complete stop.



- **Powerful winch**
  The newly designed winch does not require adjustment, lining replacement, or other types of brake maintenance.

Operability

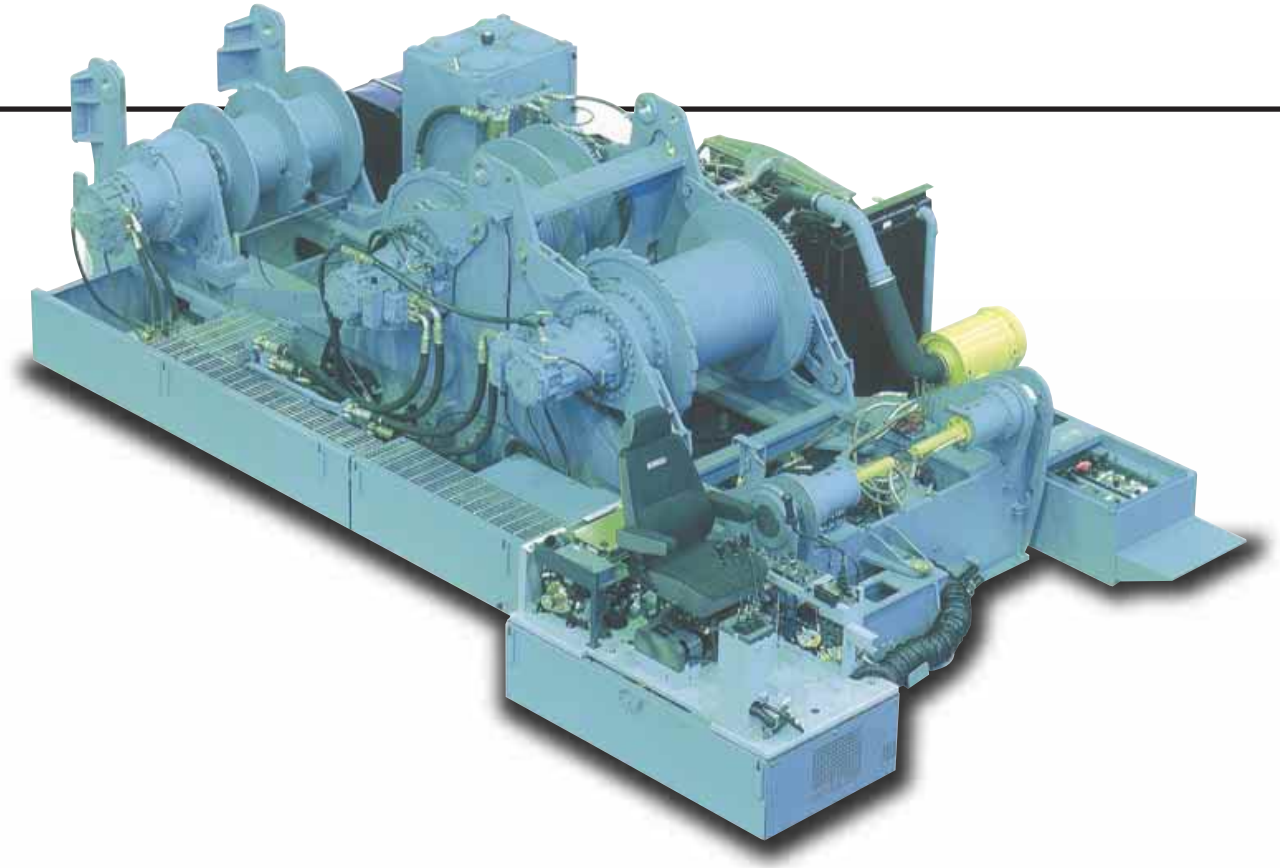
- **Dial-type line-speed control** (for main and auxiliary hoist, boom hoist, and raising and lowering the luffing tower jib) makes it easier to move loads horizontally.
- **High speed winch** that delivers a lowering speed close to free fall.
- **Optional drum rotation sensing system** permits the operator to "feel" drum rotation through the top of the hoist lever grip.

- **Low-speed swing control function** permits the machine to swing slowly even at high engine speeds when set in neutral-brake swing mode or neutral-free low-speed swing mode.
- **Inching control switch:** The lever grips feature an inching control switch for hoist, boom hoist, and travel that the operator can activate without taking his hands off the levers.

Easy Disassembly and Transport

- **Optional nesting boom design** permits the the insert tower jib to be stored inside the boom to save space when storing or transporting the machine.
- **Easy assembly and disassembly:** Assembly and disassembly are easy, with thin, stacking counterweight pieces, each can be transported by truck.
- **The gantry can be folded,** and the insert boom guide rollers can be stored to reduce overall height when the machine is loaded on a trailer for transport.

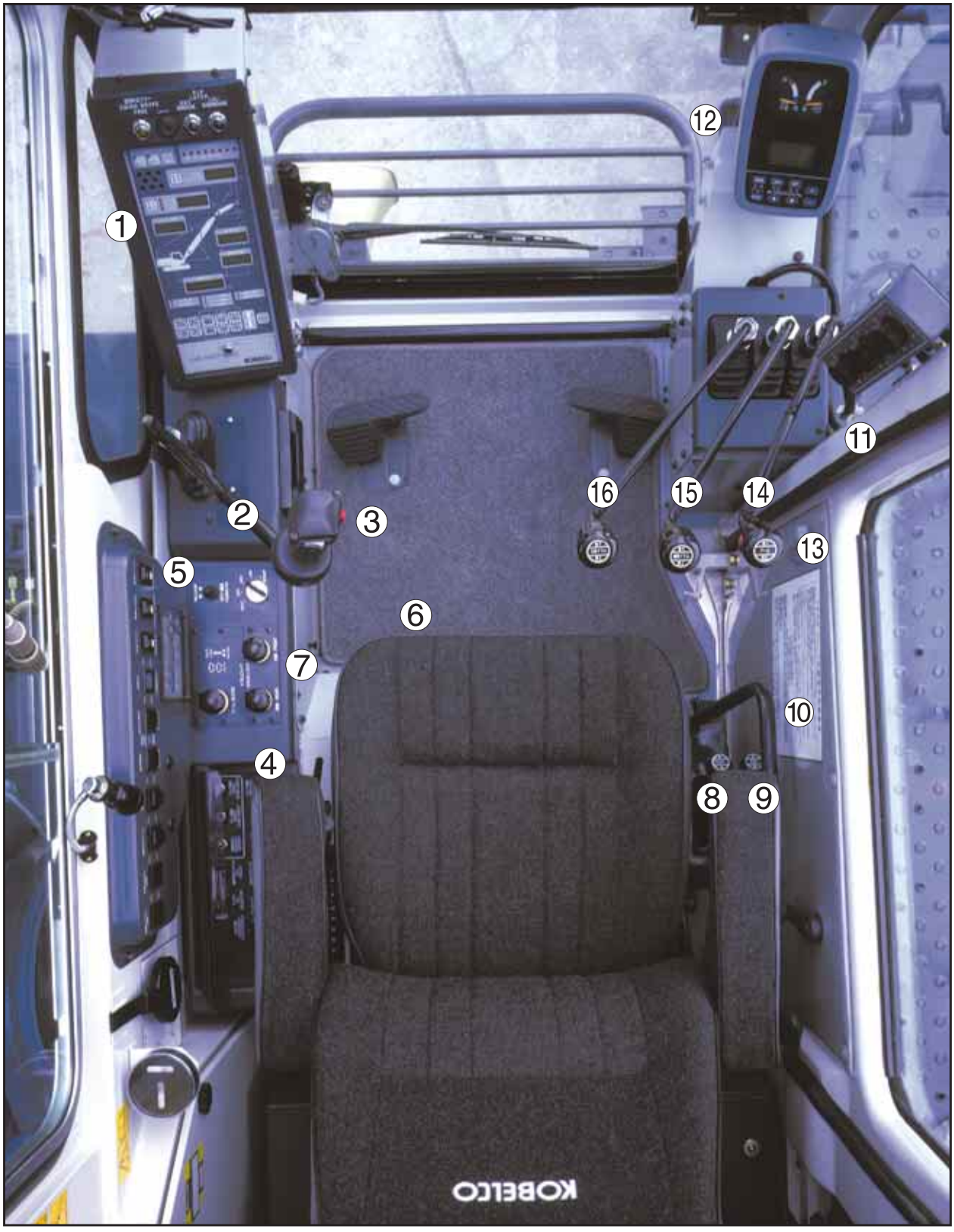
- **Standard features** that facilitate assembly and disassembly include: cylinders for inserting and removing the boom foot pins and crawler coupling pins; gantry raising/lowering cylinders; and remote- controlled Trans-Lifter.
- **Optional reeving winch** makes it easy to pass the line through the sheave during machine assembly.



Safety

- **Self-erection without mast:** The entire boom is self-supporting without a mast, thanks to lighter construction and the use of mid-point suspension (**PATENT** pending).
- **The boom and guy line are easily connected,** and the upper spreader is automatically stored during disassembly. (Pin-connecting is manual.)
- **To help ensure safety for assembly/disassembly,** the lower connecting pins on the lower boom are tapered on both sides, and the boom is equipped with side steps and an expanded metal grating on the upper face to provide sure footing.
- **Swing Cab:** The cab can be easily turned toward the front of the machine during transport so that the upper machinery fits within a width of 3.2m. This enables the machine with axles to be transported on a trailer.

- **The overload prevention device with multi-functional LCD display** simultaneously shows the rated overall load and the actual load being lifted.
- **The overload prevention device** also ensures smooth boom (tower) and luffing tower jib lowering to prevent the load from swaying.
- **The height level indicator** can show the height of the boom point on the overload prevention device display while simultaneously showing the hook height on the liquid-crystal multi-display monitor.
- **Second over-hoist prevention device:** Boom backing is reliably prevented by a second over-hoist prevention device, which is designed with a double-safety structure that automatically prevents the boom, tower, and tower luffing jib from assuming an excessive angle. (The double-safety structure is for the boom and tower only.)
- **Automatic stop (soft stop) function:** To prevent the machine from overturning and sustaining other damage because of sudden stops, a special function ensures smooth, soft stops automatically with the tower at 90° regardless of engine speed.
- **Tower jib stowing speed control mechanism** regulates the speed at which the tower jib is lowered when being stowed against the tower, to prevent accidental collision.
- **A counterweight detection device** warns the operator when the input ML (Momet Limiter) code does not match the specifications of the counterweight that is actually on the machine.
- **The automatic stop function** can be individually released through controls keyed independently to hook overhoist, boom overhoist, and overload.



- **Convenient cab layout** .....

① Overhoist Prevention Device with ML LCD-Display (ML: Moment Limiter) ② Swing Control Lever ③ Acceleration Grip ④ Swing Lock Control Lever ⑤ Air Conditioner ⑥ Aux. Acceleration (under the seat) ⑦ Fuse Box ⑧ Left Propel Control Lever ⑨ Right Propel Control Lever ⑩ Function Lock Lever ⑪ Drum Rotation Speed Control Trimmer Box ⑫ Multi-Display Monitor ⑬ Inching Speed Switch (inside the grip of boom control lever) ⑭ Boom Hoist Drum Control Lever ⑮ Aux. Hoist Drum Control Lever ⑯ Main Hoist Drum Control Lever

- **The assembly/disassembly mode** temporarily deactivates the overload automatic-stop function so that the hook can be hoisted and the boom lowered by means of switch operation.
- **The hoist lever interlock** helps to ensure safety during preparatory operations by preventing the drums from responding to accidental lever movement.
- **The boom-drum pawl detection device** sounds an alarm if the operator forgets to engage the drum locks.
- **Tower-angle lock switch:** By locking the tower at a set angle, the tower-angle lock switch helps to prevent the tower from being accidentally raised or lowered.

- **The service life of the boom hoisting wire rope** is extended with the entire sheave at D/d 20 or more.
- **Safety devices** include: Swing flashers and a warning buzzer alert nearby people that the machine is swinging; rear working lights make it easy to confirm conditions behind the machine during nighttime work; a lever-lock system prevents accidental operation when the operator enters or leaves the cab; and forward-direction markings on the shoe surface make it easy to ascertain the machine's forward direction from the operator's seat.

- **Optional equipment** includes: five audible alarms that provide warnings about such functions as machine travel and swing, as well as prior warning before operations are automatically stopped; an external overload indicator light that warns people in the area concerning the condition of the load; and a color camera and TV monitor for monitoring both the area behind the machine and the drums.

Comfort

- **The clean-running engine** is compliant with stringent exhaust-gas regulations.
- **Low-noise machine:** Thorough sound-reducing measures meet the latest noise standards, resulting in confirmed classification as a low-noise construction machine (105dB(A)).
- **Quiet brake operation:** The newly designed winch features non-asbestos brake/clutch linings (not installed) that eliminate environmental contamination while ensuring quiet brake operation.
- **Simple, powerful design and coloring** blend in well with surroundings.
- **The roomy, 940mm-wide cab** conforms with ISO standards and is fitted with a well-sealed sliding door.
- **The cab is mounted on six viscous cab mounts** filled with silicon oil that absorbs vibration and provides a smooth ride.
- **A non-CFC air conditioner** with fresh air vents is installed as standard equipment.

- **The tilt-adjustable upholstered seat** allows the operator to maintain an ideal posture for whatever job is at hand.
- **Convenient layout:** With the levers mounted on side consoles and no brake pedal, the view is kept clear down in front.
- **Excellent visibility:** Extra-strength green glass windows, a fully opening view roof, an upper front window that can be stored on the cab ceiling, and a one-touch removable lower front window all contribute to excellent visibility.
- **Intermittent wipers with washers:** The upper and lower front windows and view roof feature intermittent wipers with washers.
- **Removable foot rests and large mud removing step** keep the cab clean and give the operator comfortable posture.
- **Other amenities** include a digital clock with liquid-crystal display, and a large luggage compartment.

Maintenance

- **Multi-display monitor:** The ITCS (Intelligent Total Control System) system with liquid-crystal, multi-display monitor helps ensure safe operation and features accurate maintenance and monitoring functions.

- **Service diagnostic functions** (with liquid-crystal multi-display) continually monitor and display the status of the electrical and hydraulic systems and engine.
- **Maintenance information functions** (with liquid-crystal multi-display) analyze and display information necessary for day-to-day machine operation.
- **The self-diagnostic system** (with liquid-crystal multi-display) shows the status of the controllers, sensors, and other components of the electrical system.
- **Easy maintenance:** The engine is mounted on the left side in a layout that facilitates inspection and maintenance.

Specifications

Upper Machinery

Power Plant

Model ..... Mitsubishi 6D24-TCE1
Type ..... Water-cooled, direct fuel injection, with turbocharger
No. of cylinder 6
Bore and stroke ..... 130 mm x 156 mm
Displacement ..... 11.945 liters
Rated power ..... 220 kW (300 PS) at 2,000 min^{-1} (rpm) (JIS D1005)
Max. torque ..... 1,186 N·m (121 kg·m) at 1,400 min^{-1} (rpm) (JIS D1005)
Cooling system ..... Liquid, recirculating bypass
Starter ..... 24 V, 5.5 kW
Alternator ..... 24 V, 80 A
Cycles 4
Radiator ..... Corrugated type core, thermostatically controlled
Air cleaner ..... Dry type with replaceable paper element
Throttle ..... Electric throttle control, twist grip type
Fuel tank capacity ..... 400 liters
Fuel filter ..... Heavy duty with replaceable paper element
Batteries ..... Two 12V, 150 Ah capacity batteries, series connected (Optional 170 Ah capacity batteries are availble.)

Hydraulic System

Pumps: Four variable displacement piston pumps and two gear 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. In addition, two fixed gear pumps are used in the control system and auxiliary equipment.
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.
Max. relief valve pressure:
Load hoist, boom hoist and propel system ..... 30.9 MPa (315 kg/cm^2)
Swing system ..... 27.5 MPa (280 kg/cm^2)
Control system ..... 5.6 MPa (55 kg/cm^2)
Reservoir capacity: 545 liters
Cooling: Oil-to-air heat exchanger (plate-fin type)
Filtration: Full-flow and bypass type with replaceable paper element
Electrical system: All wiring coded for easy servicing, individual fused branch circuits.

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 rachet for locking drum.
Drum: Double drum, grooved for 22 mm dia. wire rope.
Line speed: Double line on first drum layer
Hoisting ..... 52 to 2 m/min
Lowering ..... 52 to 2 m/min

Load Hoist System

Front and rear drums for load hoist powered by a hydraulic variable plunger motors, driven through planetary reducers.
Brake: A spring-set, hydraulically released multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve.
Drum lock: External rachet for locking drum.
Drums:
Front drum: 620 mm P.C.D. x 812 mm wide drum, grooved for 28 mm wire rope. Rope capacity is 300 m working length and 450 m storage length.
Rear drum (R.H.): 620 mm P.C.D. x 546 mm wide drum, grooved for 28 mm wire rope. Rope capacity is 200 m working length and 300 m storage length.
Rear drum (L.H.): 660 mm P.C.D. x 244 mm wide drum, grooved for 22 mm wire rope. Rope capacity is 140 m working length and 198 m storage length.
Line speed: Single line on the first drum layer
(Front and rear drum)
Hoisting ..... 110 to 3 m/min
Lowering ..... 110 to 3 m/min

Swing System

Swing unit: Powered by hydraulic motor driving spur gears through planetary reducers (2 sets), the swing system provides 360° rotation.
Swing speed ..... 2.1 min^{-1} (rpm)
Swing 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

Lower Machinery

Carbody: Steel-welded carbody with axles.
Crawler: 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.
Crawler drive: Independent hydraulic propel drive is built into each 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 multiple-disc 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.
Shoes (flat):
Number ..... 67 each side
Standard flat shoe width ..... 1,070 mm
Optional 1,220 mm
Optional 1,330 mm
Max. travel speed:
High range ..... 1.1 km/h
Low range ..... 0.7 km/h
Max. gradeability: 30%

Weight:

Including upper and lower machine, 82.2 ton counterweight and 20.0 ton carbody weight, basic boom (or basic tower + basic jib), hook, and other accessories.

Specification	Weight	Ground pressure
Heavy-duty boom	Approx. 197.0 ton	110 kPa (1.12 kgf/cm^2)
Light-duty boom	Approx. 162.0 ton	90 kPa (0.92 kgf/cm^2)
Long boom	Approx. 169.0 ton	94 kPa (0.96 kgf/cm^2)
Luffing tower	Approx. 175.0 ton	97 kPa (0.99 kgf/cm^2)

Standard and Optional Equipment

Standard Equipment

Upper structure/Lower structure
Counterweight (ten pieces): 82.2 ton (total weight)
Counterweight (six pieces): 66.6 ton (total weight)
Carbody weight: 20 ton
1,070 mm shoe crawlers
150AH battery
Trans-Lifter
Gantry raising/lowering cylinder (with chain for storage use)
Electric hand throttle grip
Variable boom hoist speed controller
Variable main/aux. hoist speed controller
Swing neutral-free/brake select switch
Side deck (for cab)
Step (equipped on left-side guard)
Step (equipped on crawlers)
Two front working lights
Cab & Control
Totally enclosed, full vision cab with safety glass
Removable upper front window
Fully adjustable, high backed seat with a head-rest and armrests
Intermittent wiper and window washer (roof, front and lower front window)
Foot pedals for front and rear drum
Four short hand levers for front and rear drum, swing and boom drum controls
Safety Device
Over-load prevention device (w/ boom lowering slow stop function)
Release prevention key for hook over-hoist prevention device
Release prevention key for boom over-hoist prevention device
Counterweight detection device
LCD Multi-display (shows gauges and warning signs)
Second over-hoist prevention device (boom angle limit stop)
Boom over-hoist auto-stop device (slow stop function)
Hook over-hoist auto-stop device
Boom backstops
Safety lever lock
Propel lever lock
Manual drum safety pawl (main, aux. and boom hoist)
Negative brake in lever neutral-position
Assembly/disassembly mode switch
Twist-type tower jib reset slow stop function
Lamp for swing neutral-free/brake select switch
Swing neutral-free/brake select switch with lock function
Hydraulically safety valve (main, aux., boom hoist and propel)
Signal horn
Swing brake
Swing lock pin (four-position pin-hole lock)
Swing flashers
Swing warning buzzer

Optional Equipment

Upper structure/Lower structure
Electric fan
Hydraulic tagline
Fire extinguisher
Foot acceleration pedal
Monitoring camera (backward, front/rear drum, and boom)
Reeving winch
Multi-voice alarm (overload, overhoist)
Auxiliary sheave
Pillow plate for boom self-erection
Pedal for boom hoisting/lowering
Drum turn indicator (front/rear drum)
Level gauge
Service platform (left side)
Hand rail for top of left guard
Overload alarm lamp (choice of the round shape or the square shape)
Cab top guard
Travel kit
Voice alarm for travel and swing
Removable name plate
Rotating light (yellow)
Anemometer with alarm (for tower and crane)
Obstacle light
Cat walk on the boom top
Boom guard (bottom side of upper boom)
Boom nesting device
Name plate on boom
Rating chart plate (installed on the bottom side of lower boom)
Hand rail on boom top
Tower attachments
Custom color

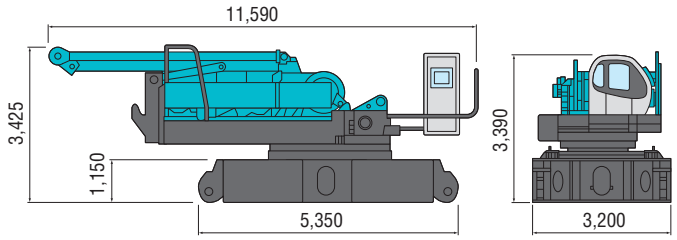
Other amenities

Upper structure/Lower structure
Anti-slip sheet (mounted on the guard), Tools (for routine maintenance), Cab interior light, Two front flood lights, Two back mirrors, Mirror for monitoring drums
Cab
Air conditioner, Convenient compartment (for tool), Cup holder, AM/FM Radio, Ashtray, Cigarette lighter, Sun visor, Roof blind, Tinted glass, Floor mat, Foot-rest, Shoe tray

Transportation

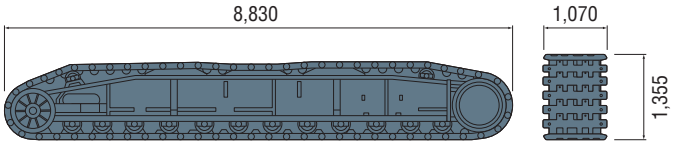
Base Machine and Carbody

35,900 kg
11,590 mm x 3,200 mm x 3,390 mm



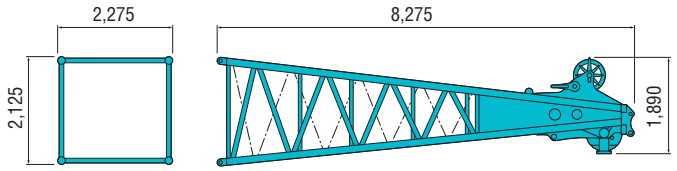
Crawlers

23,600 kg
8,830 mm x 1,070 mm x 1,355mm



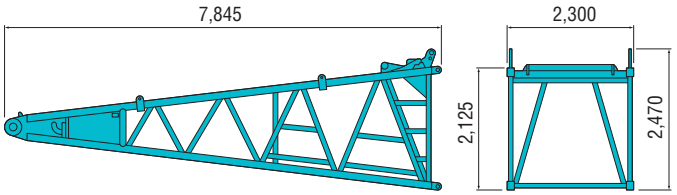
Heavy-duty Upper Boom

3,000 kg
8,275 mm x 2,275 mm x 2,125 mm



Lower Boom

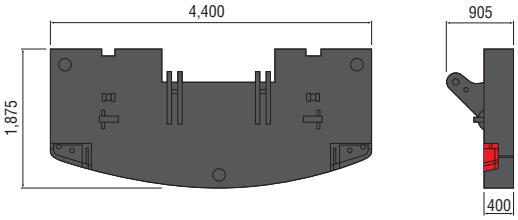
2,430 kg
7,845 mm x 2,300 mm x 2,470 mm



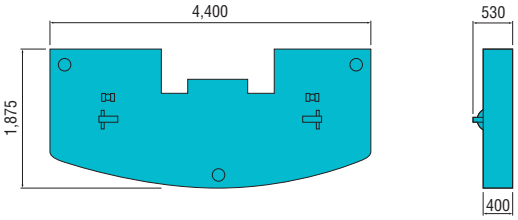
Counterweight

Total: 82,200 kg (13,500 kg + 12,500 kg x 3 + 8,400 kg x 2 + 7,200 kg x 2)
A: 4,400 mm x 905 mm x 1,875 mm **B:** 4,400 mm x 530 mm x 1,875 mm
C: 4,400 mm x 530 mm x 1,875 mm **D:** 4,400 mm x 530 mm x 1,875 mm
E (E'): 1,530 mm x 830 mm x 1,835 mm
F (F'): 1,530 mm x 830 mm x 1,810 mm

A



B



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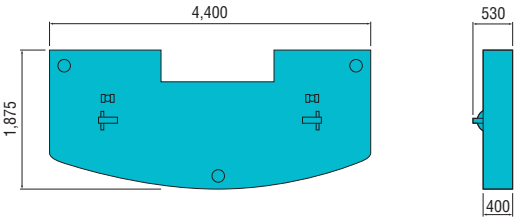

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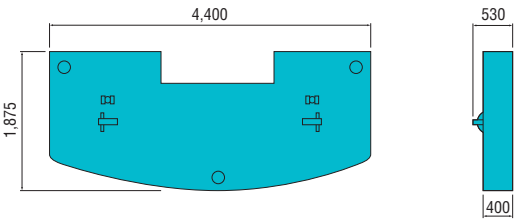
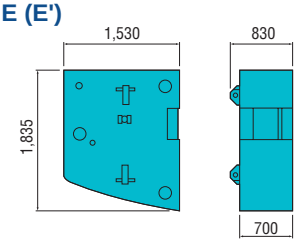
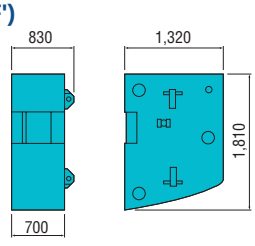


E (E')

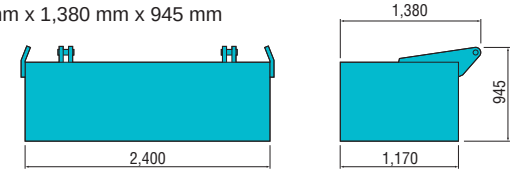


F (F')



Carbody weight

10,000 kg x 2
2,400 mm x 1,380 mm x 945 mm

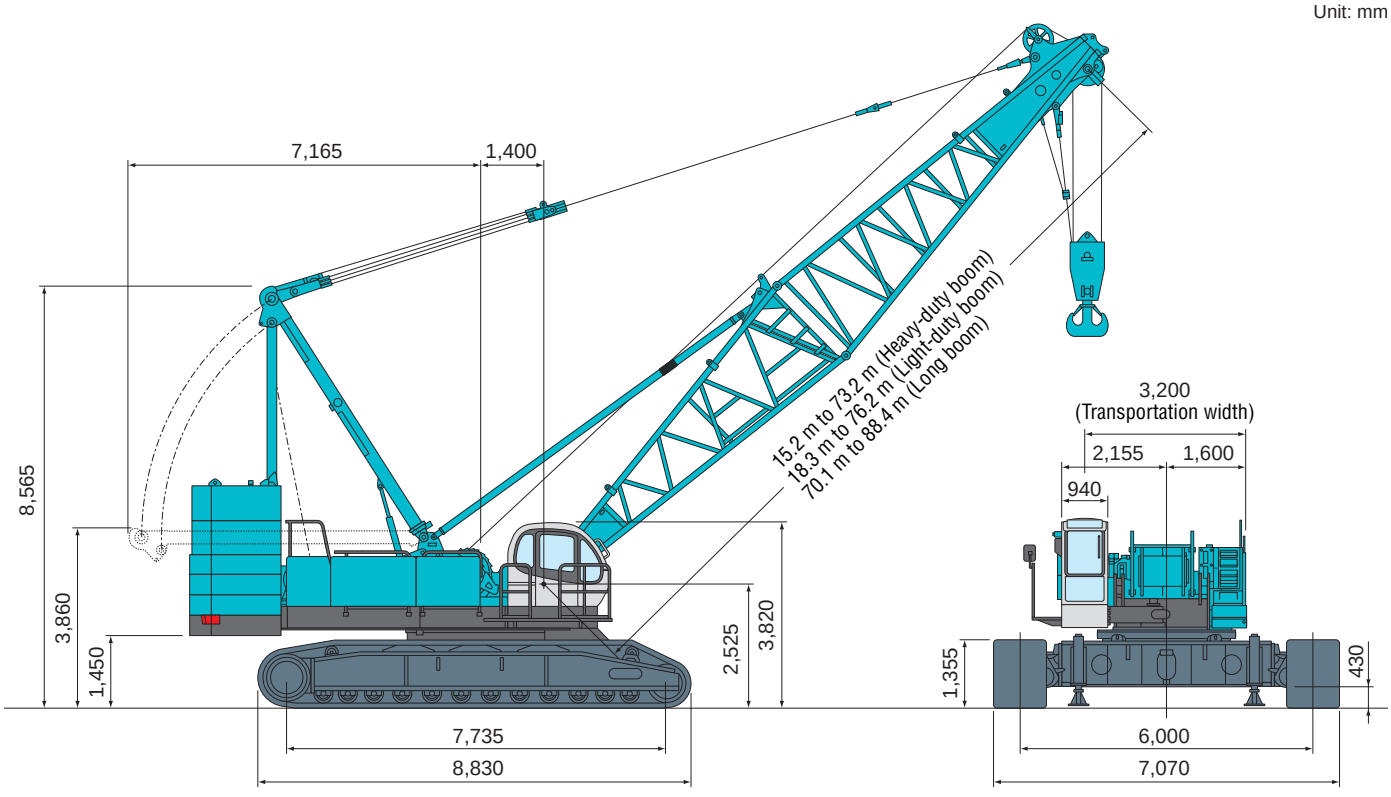


Other Attachment

Attachment	Weight	Dimensions (L x W x H)
3.0 m (10 ft) Insert Boom	610 kg	3,175 mm x 2,275 mm x 2,125 mm
6.1 m (20 ft) Insert Boom	1,030 kg	6,225 mm x 2,275 mm x 2,125 mm
9.1 m (30 ft) Insert Boom	1,450 kg	9,270 mm x 2,275 mm x 2,125 mm
9.1 m insert tower	1,750 kg	9,270 mm x 2,275 mm x 2,125 mm
Light-duty boom tip	2,100 kg	5,725 mm x 1,525 mm x 1,525 mm
5.4 (18 ft) m insert tapered boom	840 kg	5,570 mm x 2,275 mm x 2,125 mm
Upper tower Jib tip (Long boom tip)	990 kg	8,810 mm x 1,505 mm x 1,515 mm
Tower cap	2,100 kg	5,545 mm x 2,340 mm x 2,295 mm
Tower jib base	1,600 kg	10,380 mm x 2,335 mm x 1,525 mm
3.0 (10 ft) mid-point jib	320 kg	3,150 mm x 1,510 mm x 1,510 mm
3.0 m (10 ft) insert tower jib	320 kg	3,150 mm x 1,510 mm x 1,510 mm
6.1 m (20 ft) insert tower jib	535 kg	6,210 mm x 1,510 mm x 1,510 mm
9.1 m (30 ft) insert tower jib	755 kg	9,260 mm x 1,510 mm x 1,510 mm
Gantry	2,500 kg	6,110 mm x 1,760 mm x 820 mm
Tower strut	2,050 kg	7,410 mm x 2,380 mm x 1,125 mm
Upper spreader	635 kg	885 mm x 2,350 mm x 335 mm
Lower spreader	440 kg	855 mm x 1,500 mm x 320 mm
Upper spreader for tower jib	260 kg	1,020 mm x 245 mm x 765 mm
Lower spreader for tower jib	460 kg	2,275 mm x 690 mm x 835 mm
200-ton hook block	2,800 kg	700 mm x 995 mm x 2,225 mm
150-ton hook block	2,300 kg	700 mm x 715 mm x 2,665 mm
100-ton hook block	1,800 kg	700 mm x 555 mm x 2,025 mm
65-ton hook block	1,200 kg	700 mm x 385 mm x 1,815 mm
35-ton hook block	900 kg	700 mm x 365 mm x 1,575 mm
13.5-ton ball-hook	450 kg	1,200 mm x 380 mm dia.

General Dimensions

Unit: mm



Rating Chart List

A full range of rating charts is available for the 7200 crawler crane. The rating charts given in this catalog are listed here with the relevant page number. For other rating charts please contact your local KOBELCO dealer. Rating charts for fixed jib specs can be supplied separately.

Heavy-duty Boom Lifting Capacity

Heavy-duty Boom with Counterweight: 82.2 ton + Carbody Weight: 20 ton	Page
Heavy-Duty Boom Lifting Capacity	16
Aux. Sheave Lifting Capacity with 200-ton hook	–
Aux. Sheave Lifting Capacity with150-ton hook	–
Aux. Sheave Lifting Capacity with 100-ton hook	–
Aux. Sheave Lifting Capacity with 65-ton hook	–
Aux. Sheave Lifting Capacity with 35-ton hook	–
Aux. Sheave Lifting Capacity without main hook	17
Heavy-duty Boom:with Counterweight: 66.6 ton	
Heavy-Duty Boom Lifting Capacity	18
Aux. Sheave Lifting Capacity with 200-ton hook	–
Aux. Sheave Lifting Capacity with 150-ton hook	–
Aux. Sheave Lifting Capacity with 100-ton hook	–
Aux. Sheave Lifting Capacity with 65-ton hook	–
Aux. Sheave Lifting Capacity with 35-ton hook	–
Aux. Sheave Lifting Capacity without main hook	19

Light-duty Boom Lifting Capacity

Light-duty Boom with Counterweight: 82.2 ton + Carbody Weight: 20 ton	Page
Light-Duty Boom Lifting Capacity	20
Aux. Sheave Lifting Capacity with 150-ton hook	–
Aux. Sheave Lifting Capacity with 100-ton hook	–
Aux. Sheave Lifting Capacity with 65-ton hook	–
Aux. Sheave Lifting Capacity with 35-ton hook	–
Aux. Sheave Lifting Capacity without main hook	21
Light-duty Boom with Counterweight: 66.6 ton	
Light-Duty Boom Lifting Capacity	22
Aux. Sheave Lifting Capacity with 150-ton hook	–
Aux. Sheave Lifting Capacity with 100-ton hook	–
Aux. Sheave Lifting Capacity with 65-ton hook	–
Aux. Sheave Lifting Capacity with 35-ton hook	–
Aux. Sheave Lifting Capacity without main hook	23

Long Boom Lifting Capacity

Long Boom with Counterweight: 82.2 ton + Carbody Weight: 20 ton	Page
Long Boom Lifting Capacity	24
Aux. Sheave Lifting Capacity with 65-ton hook	–
Aux. Sheave Lifting Capacity with 35-ton hook	–
Aux. Sheave Lifting Capacity without main hook	24
Long Boom with Counterweight: 66.6 ton	
Long Boom Lifting Capacity	25
Aux. Sheave Lifting Capacity with 65-ton hook	–
Aux. Sheave Lifting Capacity with 35-ton hook	–
Aux.. Sheave Lifting Capacity without main hook	25

Fixed Jib Lifting Capacity (fitted with Light-duty Boom)

Fixed Jib with Counterweight: 82.2 ton + Carbody Weight: 20 ton	Page
Boom Lifting Capacity with Jib with 100-ton hook	–
Boom Lifting Capacity with Jib with 65-ton hook	–
Boom Lifting Capacity with Jib with 35-ton hook	–
Jib Lifting Capacity with 100-ton hook Offset: 10°	–
Jib Lifting Capacity with 65-ton hook Offset: 10°	–
Jib Lifting Capacity with 35-ton hook Offset: 10°	–
Jib Lifting Capacity without main hook Offset: 10°	–
Jib Lifting Capacity with 100-ton hook Offset: 30°	–
Jib Lifting Capacity with 65-ton hook Offset: 30°	–
Jib Lifting Capacity with 35-ton hook Offset: 30°	–
Jib Lifting Capacity without main hook Offset: 30°	–
Fixed Jib with Counterweight: 66.6 ton	
Boom Lifting Capacity with Jib with 100-ton hook	–
Boom Lifting Capacity with Jib with 65-ton hook	–
Boom Lifting Capacity with Jib with 35-ton hook	–
Jib Lifting Capacity with 100-ton hook Offset: 10°	–
Jib Lifting Capacity with 65-ton hook Offset: 10°	–
Jib Lifting Capacity with 35-ton hook Offset: 10°	–
Jib Lifting Capacity without main hook Offset: 10°	–
Jib Lifting Capacity : with 100-ton hook Offset: 30°	–
Jib Lifting Capacity with 65-ton hook Offset: 30°	–
Jib Lifting Capacity with 35-ton hook Offset: 30°	–
Jib Lifting Capacity without main hook Offset: 30°	–

Luffing Tower Lifting Capacity

Luffing Tower Lifting Capacity	Page
36.6 m (120 ft) Tower Lifting Capacity	28
39.7 m (130 ft) Tower Lifting Capacity	28
42.7 m (140 ft) Tower Lifting Capacity	29
45.8 m (150 ft) Tower Lifting Capacity	30
48.8 m (160 ft) Tower Lifting Capacity	31
51.9 m (170 ft) Tower Lifting Capacity	32
54.9 m (180 ft) Tower Lifting Capacity	33
58.0 m (190 ft) Tower Lifting Capacity	34

Crane Attachment

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

Heavy-duty Boom:

Max. lifting capacity	200,000 kg
Basic boom length	15.2 m (50')
Max. boom length	73.2 m (240')

Light-duty Boom:

Max. lifting capacity	150,000 kg
Basic boom length	18.3 m (60')
Max. boom length	76.2 m (250')

Long Boom:

Max. lifting capacity	37,500 kg
Basic boom length	70.1 m (230')
Max. boom length	88.4 m (290')

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

Lifting capacity	200 tons	150 tons	100 tons	65 tons	35 tons	13.5tons ball hook
No. of sheaves	8	6	4	3	1	0
Weight (kg)	2,800	2,300	1,800	1,200	900	450

Diameter of wire ropes
Standard:
Hook hoist ..... 28 mm
Boom hoist (16-part line) ..... 22 mm
Boom guy line (2 x2 lines) ..... 34 mm
Boom hoist reeving: 16 parts of 22 mm dia. wire rope
Boom backstops: required for all boom lengths

Rated Line Pull (Single-line)

	Permissible	Allowable
Front	132 kN (13,500 kg)	245 kN (25,000 kg)
Rear	132 kN (13,500 kg)	245 kN (25,000 kg)

Boom Lifting Capacities

Notes:

1. Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity the load.
2. Rated loads do not exceed 75% of tipping load. Deduct weight of hook block(s), slings and all other load handling accessories from main boom or auxiliary sheave rated loads shown.
3. Rated loads 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.
4. At radii and boom lengths where no ratings are shown on chart, operation is not intended or approved.
5. Ratings surrounded by thick lines in the charts are determined by the machine's structural strength, and others are determined by the machine's stability.
6. Gantry must be in raised position for all conditions.
7. Boom inserts and guy lines must be arranged as shown in the "Boom Arrangement".
8. **Main Boom Rated Loads**
   Deduct weight of main hook block, slings and all other load handling accessories from main boom rated loads shown.
9. **Auxiliary Sheave Rated Loads**
   Deduct weight of auxiliary ball hook, slings and all other load handling accessories from auxiliary sheave rated loads shown.
10. **Jib Rated Loads**
    Deduct weight of jib hook block, slings and all other load handling accessories from jib rated loads shown.
    (Jib Rating charts can be supplied separately.)
11. An auxiliary sheave can be fitted to boom in following table.

Boom	Boom length (m)
Heavy-duty boom	15.2 to 70.1
Light-duty boom	18.3 to 73.2
Long boom	70.1 to 88.4

12. Main Hoist Drum Rated Loads in Metric Tons

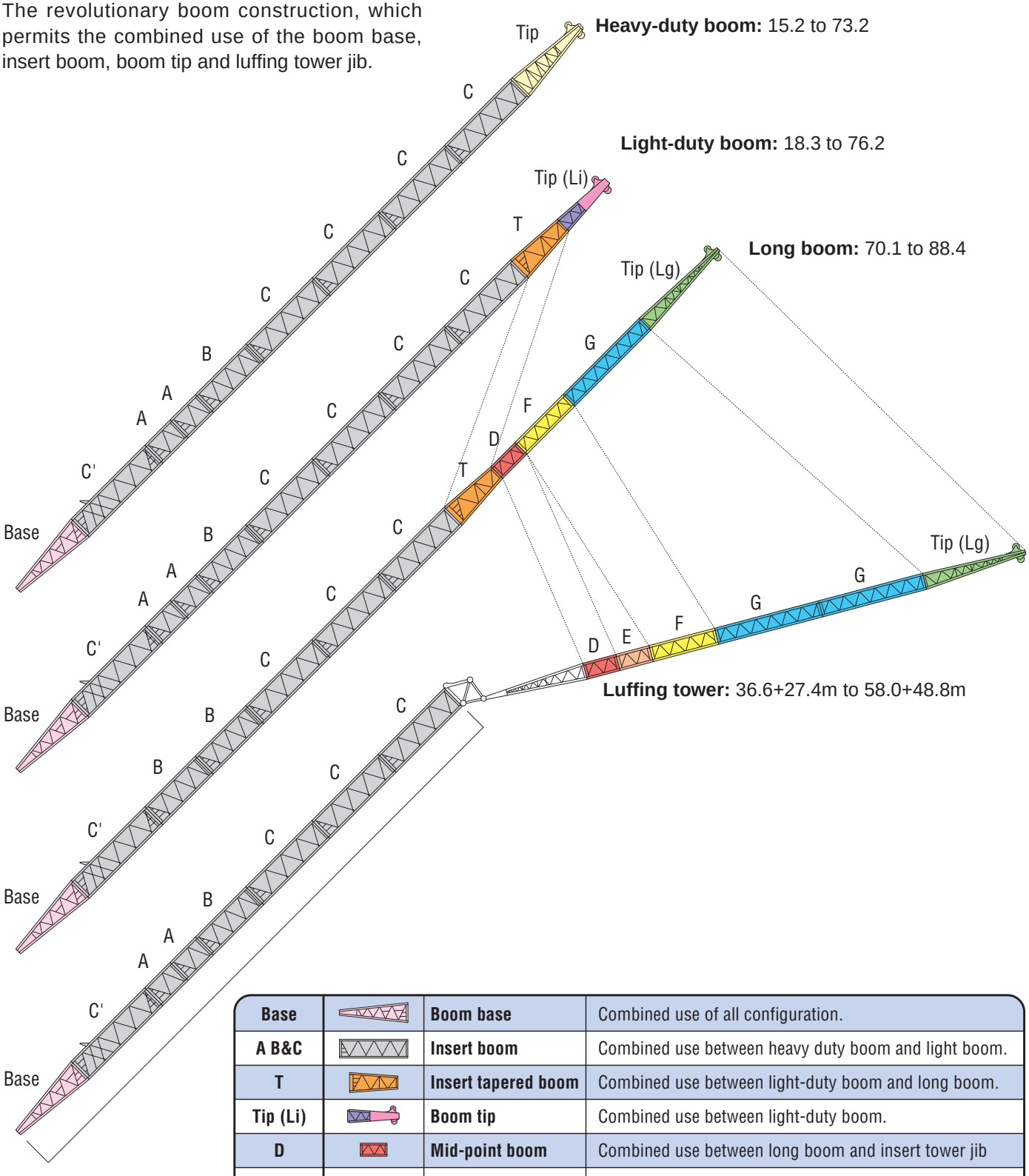
No. of Part Line	1	2	3	4	5	6
Max. Loads (ton)	13.5	25.0	37.5	50.0	62.5	75.0
No. of Part Line	7	8	9	10	11	12
Max. Loads (ton)	87.5	100.0	112.5	125.0	137.5	150.0
No. of Part Line	13	14	15	16	-	-
Max. Loads (ton)	162.5	175.0	187.5	200.0	-	-

13. Boom hoist reeving must be sixteen parts of line.
14. In principle, the boom should be erected over the front of the crawlers.
15. Figures shown by (ft) in the boom configuration are for reference only.

Boom Component

■ Simple Boom Construction

The revolutionary boom construction, which permits the combined use of the boom base, insert boom, boom tip and luffing tower jib.



Base		**Boom base**	Combined use of all configuration.
A B&C		**Insert boom**	Combined use between heavy duty boom and light boom.
T		**Insert tapered boom**	Combined use between light-duty boom and long boom.
Tip (Li)		**Boom tip**	Combined use between light-duty boom.
D		**Mid-point boom**	Combined use between long boom and insert tower jib
E		**Insert boom**	Combined use between long boom and insert tower jib
F		**Insert boom**	Combined use between long boom and insert tower jib.
G		**Insert boom**	Combined use between long boom and insert tower jib.
Tip (Lg)		**Boom tip**	Combined use between long boom and tower jib.

Boom Arrangement

Boom Arrangement Chart

Heavy-duty Boom

Boom length m (ft)	Boom arrangement
15.2 (50)	Base-Tip
18.3 (60)	Base-A-Tip
21.3 (70)	Base-A-A-Tip
24.4 (80)	Base-A-B-Tip
27.4 (90)	Base-A-A-B-Tip
30.5 (100)	Base-A-B-B-Tip
33.5 (110)	Base-A-B-C-Tip
36.6 (120)	Base-A-A-B-C-Tip
39.6 (130)	Base-A-B-B-C-Tip
42.7 (140)	Base-A-B-C-C-Tip
45.7 (150)	Base-A-A-B-C-C-Tip
48.8 (160)	Base-A-B-B-C-C--Tip
51.8 (170)	Base-A-B-C-C-C-Tip
54.9 (180)	Base-A-A-B-C-C-C-Tip
57.9 (190)	Base-A-B-B-C-C-C-Tip
61.0 (200)	Base-A-B-C-C-C-C-Tip
64.0 (210)	Base-A-A-B-C-C-C-C-Tip
67.1 (220)	Base-A-B-B-C-C-C-C-Tip
70.1 (230)	Base-A-B-C-C-C-C-C-Tip
73.2 (240)	Base-A-A-B-C-C-C-C-C-Tip Base-C'-A-A-B-C-C-C-C-Tip

Light-duty Boom

Boom length m (ft)	Boom arrangement
18.3 (60)	Base-T-Tip(Li)
21.3 (70)	Base-A-T-Tip(Li)
24.4 (80)	Base-A-A-T-Tip(Li)
27.4 (90)	Base-A-B-T-Tip(Li)
30.5 (100)	Base-A-A-B-T-Tip(Li)
33.5 (110)	Base-A-B-B-T-Tip(Li)
36.6 (120)	Base-A-B-C-T-Tip(Li)
39.6 (130)	Base-A-A-B-C-T-Tip(Li)
42.7 (140)	Base-A-B-B-C-T-Tip(Li)
45.7 (150)	Base-A-B-C-C-T-Tip(Li)
48.8 (160)	Base-A-A-B-C-C-T-Tip(Li)
51.8 (170)	Base-A-B-B-C-C-T-Tip(Li)
54.9 (180)	Base-A-B-C-C-C-T-Tip(Li)
57.9 (190)	Base-A-A-B-C-C-C-T-Tip(Li)
61.0 (200)	Base-A-B-B-C-C-C-T-Tip(Li)
64.0 (210)	Base-A-B-C-C-C-C-T-Tip(Li)
67.1 (220)	Base-A-A-B-C-C-C-C-T-Tip(Li)
70.1 (230)	Base-A-B-B-C-C-C-C-T-Tip(Li)
73.2 (240)	Base-A-B-C-C-C-C-C-T-Tip(Li)
76.2 (250)	Base-A-A-B-C-C-C-C-C-T-Tip(Li) Base-C'-A-A-B-C-C-C-C-T-Tip(Li)

Base Boom Length and Boom Tip Length:
Base = 7.6 m (25')
Tip = 7.6 m (25'), Tip(Li) = 5.2 m (17'), Tip(Lg) = 5.2 m (17')
Insert Boom:
A= 3.0 m (10'), B = 6.1 m (20'), C = 9.1 m (30')
C'= 9.1 m (30') : Insert boom for tower, with guide sheave
T= 5.4 m (18'): insert tapered boom
D= 3.0 m (10'): mid-point boom,
E= 3.0 m (10'), F = 6.0 m (20'), G = 9.0 m (30')
*E, F and G: combined use with insert jib for tower

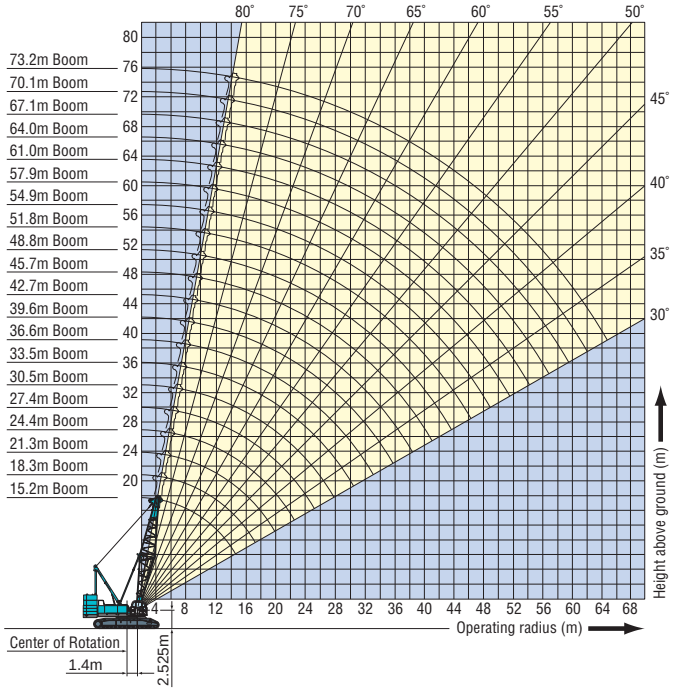
NOTE: Tables show standard boom arrangements. Other arrangements are also available. For more information, please contact your nearest KOBELCO Dealer.

Long Boom Arrangement Chart

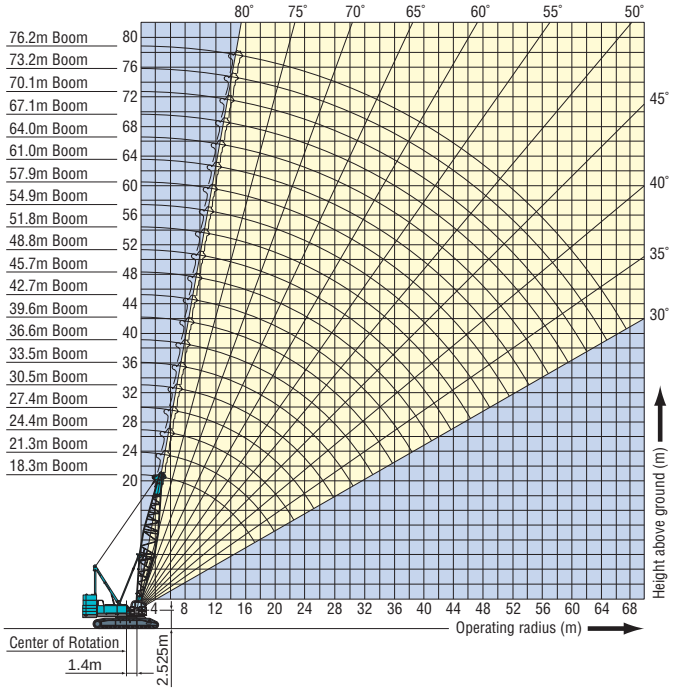
Boom length m (ft)	Boom arrangement
70.1 (230)	Base-A-B-C-C-C-C-T-D-Tip(Lg)
73.2 (240)	Base-A-A-B-C-C-C-C-T-D-Tip(Lg)
76.2 (250)	Base-A-A-B-C-C-C-C-T-D-E-Tip(Lg)
79.2 (260)	Base-A-A-B-C-C-C-C-T-D-F-Tip(Lg)
82.3 (270)	Base-A-A-B-C-C-C-C-T-D-E-F-Tip(Lg)
85.3 (280)	Base-A-A-B-C-C-C-C-T-D-E-G-Tip(Lg)
88.4 (290)	Base-A-A-B-C-C-C-C-T-D-F-G-Tip(Lg) Base-C'-B-B-C-C-C-T-D-F-G-Tip(Lg)

Working Ranges

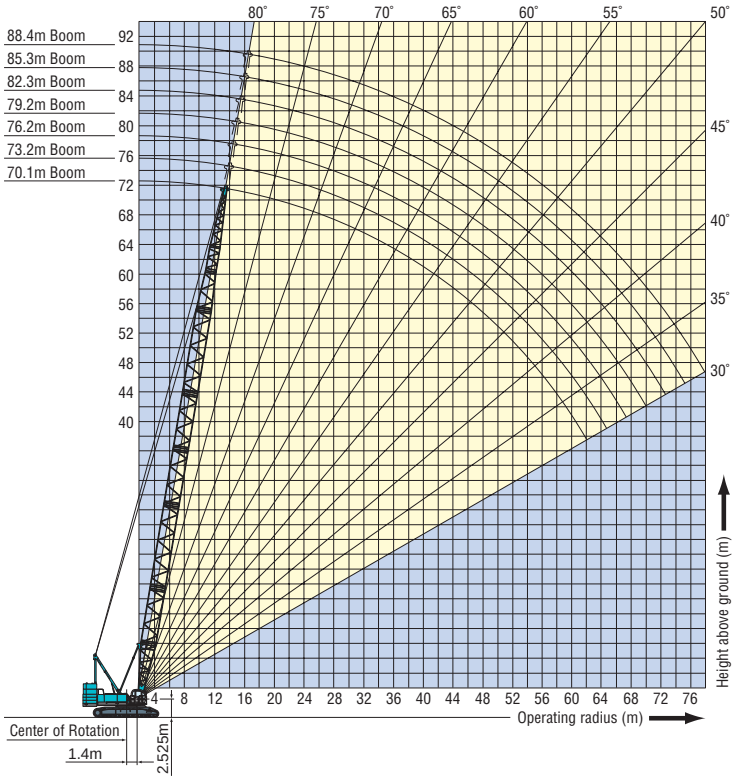
Heavy-duty Boom Working Range



Light-duty Boom Working Range



Long Boom Working Range



Heavy-duty Boom Lifting Capacities

Rated loads in metric tons for 360° working area

(Counterweight: 82.2 t, Carbody weight: 20.0 ton)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	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)
	200.0/4.5									
5.0	196.7	186.5/5.0	168.9/5.5							
6.0	166.1	165.8	164.6	149.1/6.0	133.1/6.5					
7.0	143.6	143.3	143.0	141.6	130.0	119.1/7.1	100.0/7.6			
8.0	126.4	126.1	125.8	124.8	122.0	114.3	100.0	97.5/8.1	89.1/8.6	
9.0	107.9	110.4	110.0	108.5	106.3	104.4	100.0	94.2	87.9	81.4/9.2
10.0	93.1	96.5	96.8	95.9	94.1	92.5	91.2	89.3	84.9	79.1
12.0	70.6	75.7	75.5	75.3	75.2	75.1	74.2	72.8	71.4	70.3
14.0	53.5	60.5	61.1	61.0	60.7	60.6	60.5	60.4	60.2	59.2
16.0	47.4/14.8	48.3	51.1	51.0	50.7	50.6	50.5	50.3	50.1	50.0
18.0		40.5/17.4	43.4	43.7	43.4	43.3	43.2	43.0	42.7	42.6
20.0			35.2	38.1	37.8	37.7	37.6	37.4	37.1	37.0
22.0			34.9/20.1	32.7	33.5	33.3	33.2	32.9	32.7	32.6
24.0				30.6/22.7	29.9	29.8	29.7	29.4	29.2	29.0
26.0					26.8/25.3	26.9	26.7	26.5	26.2	26.1
28.0						23.8/28.0	24.3	24.0	23.8	23.6
30.0							22.2	21.9	21.7	21.5
32.0							21.2/30.6	20.2	19.9	19.7
34.0								18.9/33.3	18.4	18.2
36.0									16.9/35.9	16.8
38.0										15.6
40.0										15.1/38.5

Note: rating inside shown in ☐ are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	45.7 (150)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)	73.2 (240)
9.0	74.6/9.7									
10.0	73.9	68.4/10.2	62.8/10.8	57.8/11.3	53.4/11.8					
12.0	69.0	64.9	60.9	56.6	53.1	49.2/12.3	44.9/12.9	41.4/13.4	37.4/13.9	
14.0	58.1	57.2	56.3	53.5	50.1	46.9	43.4	40.6	37.3	31.1/14.5
16.0	49.8	49.3	48.4	47.7	46.9	44.3	41.0	38.3	34.7	29.6
18.0	42.4	42.3	42.1	41.8	41.0	40.3	38.6	36.1	32.0	27.7
20.0	36.8	36.7	36.5	36.4	36.2	35.7	35.1	34.0	29.5	26.0
22.0	32.4	32.2	32.0	31.9	31.7	31.5	31.4	30.7	27.6	24.2
24.0	28.8	28.6	28.5	28.3	28.1	27.9	27.8	27.6	25.7	22.5
26.0	25.8	25.7	25.5	25.4	25.1	25.0	24.9	24.6	23.8	21.2
28.0	23.4	23.2	23.0	22.9	22.7	22.5	22.4	22.1	21.9	19.9
30.0	21.3	21.1	20.9	20.8	20.5	20.3	20.2	20.0	19.8	18.6
32.0	19.5	19.3	19.1	19.0	18.7	18.5	18.4	18.2	18.0	17.3
34.0	17.9	17.7	17.5	17.4	17.1	16.9	16.8	16.6	16.4	16.0
36.0	16.6	16.4	16.2	16.0	15.8	15.6	15.4	15.2	15.0	14.8
38.0	15.4	15.2	14.9	14.8	14.5	14.3	14.2	14.0	13.7	13.6
40.0	14.3	14.1	13.9	13.7	13.5	13.2	13.1	12.9	12.6	12.5
42.0	13.5/41.2	13.1	12.9	12.7	12.5	12.3	12.1	11.9	11.7	11.6
44.0		12.0/43.8	12.1	11.9	11.6	11.4	11.3	11.0	10.8	10.7
46.0			11.0	11.1	10.8	10.6	10.5	10.2	10.0	9.9
48.0			10.7/46.5	10.1	10.1	9.9	9.7	9.5	9.2	9.1
50.0				9.5/49.1	9.2	9.2	9.1	8.8	8.6	8.5
52.0					8.3/51.7	8.4	8.4	8.2	8.0	7.9
54.0						7.5	7.6	7.5	7.4	7.2
56.0						7.3/54.4	6.7	6.8	6.7	6.5
58.0							6.3/57.0	6.0	6.0	5.9
60.0								5.4/59.7	5.3	5.2
62.0									4.6	4.6
64.0									4.5/62.3	4.0
66.0										3.7/64.9

Note: rating inside shown in ☐ are determined by the strength of the boom or other structural components.

Heavy-duty Aux. Sheave Lifting Capacities

Rated loads in metric tons for 360° working area (without main hook)

(Counterweight: 82.2 t, Carbody weight: 20.0 ton)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	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)	Boom length m (ft) \ Working radius m
	13.5/5.2	13.5/5.7								
6.0	13.5	13.5	13.5/6.2	13.5/6.8						6.0
7.0	13.5	13.5	13.5	13.5	13.5/7.3	13.5/7.8				7.0
8.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5/8.4	13.5/8.9		8.0
9.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/9.4	9.0
10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	10.0
12.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.0
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14.0
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	16.0
18.0	13.5/16.1	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0
20.0		13.5/18.7	13.5	13.5	13.5	13.5	13.5	13.5	13.5	20.0
22.0			13.5/21.4	13.5	13.5	13.5	13.5	13.5	13.5	22.0
24.0				13.5/24.0	13.5	13.5	13.5	13.5	13.5	24.0
26.0					13.5/26.7	13.5	13.5	13.5	13.5	26.0
28.0						13.5/29.3	13.5	13.5	13.5	28.0
30.0							13.5/31.9	13.5	13.5	30.0
32.0								13.5	13.5	32.0
34.0								13.5/34.6	13.5	34.0
36.0									13.5	36.0
38.0									13.5/37.2	38.0
40.0										40.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	42.7 (140)	45.7 (150)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)
9.0	13.5/9.9									
10.0	13.5	13.5/10.5	13.5/11.0	13.5/11.5						
12.0	13.5	13.5	13.5	13.5	13.5/12.1	13.5/12.6	13.5/13.1	13.5/13.7		
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/14.2	13.5/14.7
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
28.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
30.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
32.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
34.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
36.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
38.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.4
40.0	13.5/39.9	13.5	13.5	13.5	13.4	13.2	12.9	12.8	12.6	12.3
42.0		13.5	12.8	12.6	12.4	12.2	12.0	11.8	11.6	11.4
44.0		12.7/42.5	11.7	11.8	11.6	11.3	11.1	11.0	10.7	10.5
46.0			11.2/45.1	10.7	10.8	10.5	10.3	10.2	9.9	9.7
48.0				9.7/47.8	9.8	9.8	9.6	9.4	9.2	8.9
50.0					8.8	8.9	8.9	8.8	8.5	8.3
52.0					8.6/50.4	8.0	8.1	8.1	7.9	7.7
54.0						7.4/53.1	7.2	7.3	7.2	7.1
56.0							6.4/55.7	6.4	6.5	6.4
58.0								5.5	5.7	5.7
60.0								5.3/58.3	5.1	5.0
62.0									4.8/61.0	4.3
64.0										3.7/63.6

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Heavy-duty Boom Lifting Capacities

Rated loads in metric tons for 360° working area

(Counterweight: 66.6 t)

Unit: metric ton
Crawler fully extended

Working radius m \ Boom length m (ft)	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)	Boom length m (ft) \ Working radius m
4.5	200.0/4.5									4.5
5.0	187.0	186.5/5.0	168.9/5.5							5.0
6.0	158.0	157.7	157.4	149.1/6.0	133.1/6.5					6.0
7.0	136.6	136.3	136.0	135.8	130.0	119.1/7.1	100.0/7.6			7.0
8.0	115.0	114.7	114.4	114.2	113.8	113.6	100.0	97.5/8.1	89.1/8.6	8.0
9.0	99.9	99.7	99.6	99.5	99.3	99.1	98.9	94.2	87.9	9.0
10.0	85.0	84.8	84.6	84.4	84.3	84.2	84.1	84.0	83.9	10.0
12.0	65.3	65.0	64.8	64.7	64.4	64.3	64.2	64.1	63.9	12.0
14.0	52.8	52.5	52.2	52.1	51.8	51.7	51.6	51.5	51.3	14.0
16.0	47.4/14.8	43.9	43.6	43.5	43.2	43.1	43.0	42.8	42.5	16.0
18.0		39.3/17.4	37.3	37.2	36.8	36.7	36.5	36.4	36.2	18.0
20.0			32.6	32.4	32.0	31.9	31.8	31.5	31.3	20.0
22.0			32.5/20.1	28.6	28.3	28.1	28.0	27.7	27.5	22.0
24.0				27.5/22.7	25.2	25.0	24.9	24.6	24.4	24.0
26.0					23.5/25.3	22.5	22.4	22.1	21.8	26.0
28.0						20.5/28.0	20.3	20.0	19.7	28.0
30.0							18.5	18.2	17.9	30.0
32.0							18.0/30.6	16.7	16.4	32.0
34.0								15.8/33.3	15.1	34.0
36.0									14.0/35.9	36.0
38.0										38.0
40.0										40.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	42.7 (140)	45.7 (150)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)	73.2 (240)
9.0	81.4/9.2	74.6/9.7									
10.0	79.1	73.9	68.4/10.2	62.8/10.8	57.8/11.3	53.4/11.8					
12.0	63.8	63.6	63.5	60.9	56.6	53.1	49.2/12.3	44.9/12.9	41.4/13.4	37.4/13.9	
14.0	51.2	50.9	50.8	50.7	50.6	50.1	46.9	43.4	40.6	37.3	31.1/14.5
16.0	42.4	42.2	42.1	41.9	41.8	41.6	41.4	41.0	38.3	34.7	29.6
18.0	36.1	35.8	35.7	35.5	35.4	35.2	35.0	34.9	34.7	32.0	27.7
20.0	31.2	30.9	30.8	30.6	30.5	30.3	30.1	30.0	29.8	29.5	26.0
22.0	27.4	27.1	27.0	26.8	26.6	26.4	26.2	26.1	25.9	25.7	24.2
24.0	24.3	24.0	23.9	23.6	23.5	23.3	23.1	23.0	22.8	22.5	22.5
26.0	21.7	21.4	21.3	21.1	20.9	20.7	20.5	20.4	20.2	19.9	19.9
28.0	19.6	19.3	19.1	18.9	18.8	18.6	18.3	18.2	18.0	17.8	17.7
30.0	17.8	17.5	17.3	17.1	17.0	16.7	16.5	16.4	16.2	15.9	15.6
32.0	16.2	15.9	15.8	15.5	15.4	15.1	14.9	14.8	14.6	14.3	14.0
34.0	14.9	14.6	14.4	14.2	14.0	13.8	13.6	13.4	13.2	12.9	12.6
36.0	13.7	13.4	13.2	13.0	12.8	12.6	12.4	12.2	12.0	11.7	11.4
38.0	12.7	12.4	12.2	11.9	11.8	11.5	11.3	11.2	10.9	10.7	10.6
40.0	12.4/38.5	11.5	11.3	11.0	10.8	10.6	10.4	10.2	10.0	9.7	9.6
42.0		11.0/41.2	10.4	10.2	10.0	9.7	9.5	9.4	9.1	8.9	8.8
44.0			9.8/43.8	9.5	9.2	9.0	8.8	8.6	8.4	8.1	8.0
46.0				8.8	8.6	8.3	8.1	7.9	7.7	7.4	7.3
48.0				8.7/46.5	8.0	7.7	7.5	7.3	7.0	6.8	6.7
50.0					7.7/49.1	7.1	6.9	6.7	6.5	6.2	6.0
52.0						6.7/51.7	6.4	6.2	5.9	5.5	5.4
54.0							5.9	5.7	5.3	5.0	4.8
56.0							5.9/54.4	5.2	4.8	4.4	4.3
58.0								5.0/57.0	4.4	4.0	3.8
60.0									4.0/59.7	3.5	3.3
62.0										3.1	2.9
64.0										3.1/62.3	2.5
66.0											2.4/64.9

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Heavy-duty Aux. Sheave Lifting Capacities

Rated loads in metric tons for 360° working area (without main hook)

(Counterweight: 66.6 t)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	15.2 (50)	18.3 (50)	21.3 (50)	24.4 (50)	27.4 (50)	30.5 (50)	33.5 (50)	38.6 (50)	39.6 (50)	Boom length m (ft) \ Working radius m
5.0	13.5/5.2	13.5/5.7								5.0
6.0	13.5	13.5	13.5/6.2	13.5/6.8						6.0
7.0	13.5	13.5	13.5	13.5	13.5/7.3	135./7.8				7.0
8.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5/8.4	13.5/8.9		8.0
9.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/9.4	9.0
10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	10.0
12.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	12.0
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	14.0
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	16.0
18.0	13.5/16.1	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0
20.0		13.5/18.7	13.5	13.5	13.5	13.5	13.5	13.5	13.5	20.0
22.0			13.5/21.4	13.5	13.5	13.5	13.5	13.5	13.5	22.0
24.0				13.5/24.0	13.5	13.5	13.5	13.5	13.5	24.0
26.0					13.5	13.5	13.5	13.5	13.5	26.0
28.0					13.5/26.7	13.5	13.5	13.5	13.5	28.0
30.0						13.5/29.3	13.5	13.5	13.5	30.0
32.0							13.5/31.9	13.5	13.5	32.0
34.0								13.5	13.5	34.0
36.0								13.5/34.6	13.5	36.0
38.0									12.0/37.2	38.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	42.7 (140)	45.7 (150)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)
9.0	13.5/9.9									
10.0	13.5	13.5/10.5	13.5/11.0	13.5/11.0						
12.0	13.5	13.5	13.5	13.5	13.5/12.1	13.5/12.6	13.5/13.1	13.5/13.7		
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/14.2	13.5/14.7
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
28.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
30.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
32.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
34.0	13.5	13.5	13.5	13.5	13.5	13.5	13.3	13.1	12.9	12.6
36.0	13.4	13.1	12.9	12.7	12.5	12.3	12.1	11.9	11.7	11.4
38.0	12.4	12.1	11.9	11.6	11.5	11.2	11.0	10.9	10.6	10.4
40.0	11.4/39.9	11.2	11.0	10.7	10.5	10.3	10.1	9.9	9.7	9.4
42.0		10.3	10.1	9.9	9.7	9.4	9.2	9.1	8.8	8.6
44.0		10.1/42.5	9.2	9.2	8.9	8.7	8.5	8.3	8.1	7.8
46.0			8.7/45.1	8.5	8.3	8.0	7.8	7.6	7.4	7.1
48.0				7.8/47.8	7.7	7.4	7.2	7.0	6.7	6.5
50.0					7.1	6.8	6.6	6.4	6.2	5.9
52.0					6.9/50.4	6.2	6.1	5.9	5.6	5.2
54.0						5.9/53.1	5.6	5.4	5.0	4.7
56.0							5.2/55.7	4.9	4.5	4.1
58.0								4.5	4.1	3.7
60.0								4.3/58.3	3.7	3.2
62.0									3.5/61.0	2.8
64.0										2.5/63.6

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Light-duty Boom Lifting Capacities

Rated loads in metric tons for 360° working area

(Counterweight: 82.2 t, Carbody weight: 20.0 t)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	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)
5.0	150.0/5.0	149.6/5.5								
6.0	150.0	149.6	149.3/6.0	133.6/6.6						
7.0	143.6	133.2	142.8	130.8	119.7/7.1	100.0/7.6				
8.0	126.4	126.0	125.2	122.7	115.1	100.0	98.0/8.2	89.5/8.7		
9.0	111.4	110.8	109.0	107.0	104.8	100.0	95.0	88.5	81.7/9.2	75.0/9.7
10.0	97.4	97.2	96.4	94.8	93.0	91.3	89.8	85.5	79.6	74.5
12.0	76.3	76.0	75.8	75.7	75.5	74.5	73.3	71.8	70.7	69.6
14.0	61.3	61.5	61.3	61.1	60.9	60.8	60.7	60.5	59.7	58.6
16.0	49.1	51.6	51.3	51.1	50.9	50.8	50.7	50.4	50.3	50.0
18.0	41.0/17.4	44.1	44.0	43.8	43.6	43.5	43.3	43.1	43.0	42.7
20.0		35.9	38.4	38.3	38.0	37.9	37.7	37.5	37.4	37.1
22.0		35.5/20.1	33.2	33.9	33.6	33.5	33.3	33.1	32.9	32.7
24.0			31.0/22.7	30.4	30.1	29.9	29.8	29.5	29.4	29.1
26.0				27.4/25.4	27.2	27.0	26.9	26.6	26.4	26.2
28.0					24.2 /28.0	24.6	24.4	24.1	24.0	23.7
30.0						22.5	22.3	22.0	21.9	21.6
32.0						21.7/30.6	20.6	20.2	20.1	19.8
34.0							19.4/33.3	18.7	18.5	18.3
36.0								17.3/35.9	17.2	16.9
38.0									16.0	15.7
40.0									15.6/38.6	14.7
42.0										13.8/41.2

Note: rating inside shown in ☐ are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)	73.2 (240)	76.2 (250)
10.0	68.7/10.3	63.3/10.8	58.2/11.3	53.6/11.9						
12.0	65.3	61.3	57.1	53.4	49.5/12.4	45.3/12.9	41.7/13.5			
14.0	57.7	56.7	54.0	50.5	47.3	43.9	41.0	36.0/14.0	30.7/14.5	27.1/15.0
16.0	49.8	48.9	48.3	47.4	44.7	41.5	38.7	33.6	29.3	26.3
18.0	42.6	42.4	42.3	41.5	40.8	39.2	36.1	31.1	27.4	24.6
20.0	37.0	36.8	36.7	36.5	36.2	35.7	33.4	28.7	25.7	22.9
22.0	32.6	32.4	32.3	32.1	31.9	31.8	30.7	27.0	24.1	21.4
24.0	29.0	28.8	28.7	28.5	28.3	28.2	28.0	25.3	22.4	20.0
26.0	26.0	25.8	25.7	25.5	25.3	25.2	25.0	23.6	20.8	18.6
28.0	23.6	23.4	23.3	23.0	22.8	22.7	22.5	21.9	19.3	17.3
30.0	21.5	21.3	21.2	20.9	20.7	20.6	20.4	20.2	18.1	16.0
32.0	19.7	19.4	19.3	19.1	18.9	18.8	18.5	18.3	16.9	14.9
34.0	18.1	17.9	17.8	17.5	17.3	17.2	17.0	16.7	15.8	13.8
36.0	16.7	16.5	16.4	16.1	15.9	15.8	15.6	15.4	14.7	12.8
38.0	15.5	15.3	15.2	14.9	14.7	14.6	14.3	14.1	13.7	12.2
40.0	14.4	14.2	14.1	13.8	13.6	13.5	13.2	13.0	12.8	11.6
42.0	13.5	13.2	13.1	12.8	12.6	12.5	12.3	12.0	11.9	11.0
44.0	10.1/43.8	12.4	12.2	12.0	11.7	11.6	11.4	11.2	11.0	10.4
46.0		11.5	11.5	11.2	10.9	10.8	10.6	10.4	10.2	9.8
48.0		11.2/46.5	10.7	10.5	10.2	10.1	9.8	9.6	9.5	9.2
50.0			10.0/49.1	9.7	9.6	9.5	9.2	9.0	8.8	8.6
52.0				8.8/51.8	8.9	8.9	8.6	8.4	8.2	8.0
54.0					8.0	8.2	8.0	7.8	7.7	7.4
56.0					7.8/54.4	7.3	7.3	7.2	7.0	6.8
58.0						6.9/57.0	6.5	6.5	6.4	6.2
60.0							5.9/59.7	5.8	5.7	5.6
62.0								5.1	5.1	5.0
64.0								5.0/62.3	4.5	4.5
66.0									4.1/65.0	3.9
68.0										3.4/67.6

Note: rating inside shown in ☐ are determined by the strength of the boom or other structural components.

Light-duty Aux. Sheave Lifting Capacities

Rated loads in metric tons for 360° working area (without main hook)

(Counterweight: 82.2 t, Carbody weight: 20.0 t)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	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)
5.0	13.5/5.7									
6.0	13.5	13.5/6.2	13.5/6.8							
7.0	13.5	13.5	13.5	13.5/7.3	13.5/7.8					
8.0	13.5	13.5	13.5	13.5	13.5	13.5/8.4	13.5/8.9			
9.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/9.4	13.5/9.9	
10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/10.5
12.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20.0	13.5/18.7	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22.0		13.5/21.4	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24.0			13.5/24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26.0				13.5	13.5	13.5	13.5	13.5	13.5	13.5
28.0				13.5/26.7	13.5	13.5	13.5	13.5	13.5	13.5
30.0					13.5/29.3	13.5	13.5	13.5	13.5	13.5
32.0						13.5/31.9	13.5	13.5	13.5	13.5
34.0							13.5	13.5	13.5	13.5
36.0							13.5/34.6	13.5	13.5	13.5
38.0								13.5/37.2	13.5	13.5
40.0									13.5/39.9	13.5
42.0										13.5
44.0										13.2/42.5

Note: rating inside shown in [ ] are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)	73.2 (240)
9.0									
10.0	13.5/11.0	13.5/11.5							
12.0	13.5	13.5	13.5/12.1	13.5/12.6	13.5/13.1	13.5/13.7			
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5/14.2	13.5/14.7	13.5/15.2
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
28.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
30.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
32.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
34.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
36.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
38.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.4
40.0	13.5	13.5	13.5	13.5	13.3	13.2	12.9	12.7	12.5
42.0	13.2	12.9	12.8	12.5	12.3	12.2	12.0	11.7	11.6
44.0	12.3	12.1	11.9	11.7	11.4	11.3	11.1	10.9	10.7
46.0	11.9/45.1	11.2	11.2	10.9	10.6	10.5	10.3	10.1	9.9
48.0		10.3/47.8	10.4	10.2	9.9	9.8	9.5	9.3	9.2
50.0			9.5	9.4	9.3	9.2	8.9	8.7	8.5
52.0			9.3/50.4	8.5	8.6	8.6	8.3	8.1	7.9
54.0				8.0/53.1	7.7	7.9	7.7	7.5	7.4
56.0					6.8/55.7	7.0	7.0	6.9	6.7
58.0						6.1	6.2	6.2	6.1
60.0						6.0/58.3	5.6	5.5	5.4
62.0							5.3/61.0	4.8	4.8
64.0								4.2/63.6	4.2
66.0									3.7
68.0									3.6/66.3

Note: rating inside shown in [ ] are determined by the strength of the boom or other structural components.

Light-duty Boom Lifting Capacities

Rated loads in metric tons for 360° working area

(Counterweight: 66.6 t)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	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)
5.0	150.0/5.0	149.6/5.5								
6.0	150.0	149.6	149.3/6.0	133.6/6.6						
7.0	136.6	136.2	135.9	130.8	119.7/7.1	100.0/7.6				
8.0	115.0	114.6	114.3	114.1	113.8	100.0	98.0/8.2	89.5/8.7		
9.0	100.3	100.1	99.9	99.8	99.6	99.4	95.0	88.5	81.7/9.2	75.0/9.7
10.0	85.3	85.1	84.9	84.8	84.6	84.5	84.3	84.0	79.6	74.5
12.0	65.5	65.3	65.0	64.9	64.7	64.6	64.5	64.3	64.2	64.0
14.0	53.0	52.7	52.5	52.3	52.1	52.0	51.9	51.6	51.5	51.3
16.0	44.4	44.1	43.8	43.6	43.4	43.3	43.2	42.9	42.8	42.6
18.0	39.7/17.4	37.8	37.5	37.3	37.1	36.9	36.8	36.5	36.4	36.2
20.0		33.0	32.7	32.5	32.2	32.1	32.0	31.7	31.5	31.3
22.0		32.9/20.1	28.9	28.7	28.4	28.3	28.1	27.8	27.7	27.5
24.0			27.8/22.7	25.7	25.4	25.2	25.1	24.7	24.6	24.4
26.0				24.0/25.4	22.9	22.7	22.5	22.2	22.1	21.8
28.0					20.8/28.0	20.6	20.4	20.1	19.9	19.7
30.0						18.8	18.6	18.3	18.1	17.9
32.0						18.3/30.6	17.1	16.7	16.6	16.3
34.0							16.2/33.3	15.4	15.2	13.8
36.0								14.3/35.9	14.1	36.0
38.0									13.0	12.8
40.0									12.8/38.6	11.9
42.0										11.4/41.2

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)	73.2 (240)	76.2 (250)
9.0										
10.0	68.7/10.3	63.3/10.8	58.2/11.3	53.6/11.9						
12.0	63.9	61.3	57.1	53.4	49.5/12.4	45.3/12.9	41.7/13.5			
14.0	51.2	51.0	50.7	50.5	47.3	43.9	41.0	36.0/14.0	30.7/14.5	27.1/15.0
16.0	42.5	42.3	42.2	42.0	41.8	41.5	38.7	33.6	29.3	26.3
18.0	36.1	35.9	35.8	35.5	35.3	35.0	34.8	31.1	27.4	24.6
20.0	31.2	31.0	30.9	30.6	30.4	30.2	30.1	28.7	25.7	22.9
22.0	27.3	27.1	27.0	26.8	26.6	26.5	26.3	26.1	24.1	21.4
24.0	24.2	24.0	23.9	23.7	23.4	23.3	23.1	22.9	22.4	20.0
26.0	21.7	21.4	21.3	21.1	20.9	20.8	20.5	20.3	20.2	18.6
28.0	19.5	19.3	19.2	18.9	18.7	18.6	18.4	18.2	18.1	17.3
30.0	17.7	17.5	17.4	17.1	16.9	16.8	16.5	16.3	16.2	16.0
32.0	16.1	15.9	15.8	15.5	15.3	15.2	14.9	14.7	14.6	14.4
34.0	14.8	14.5	14.4	14.1	13.9	13.8	13.6	13.4	13.2	13.0
36.0	13.6	13.3	13.2	12.9	12.7	12.6	12.4	12.1	12.0	11.8
38.0	12.5	12.3	12.2	11.9	11.7	11.6	11.3	11.1	11.0	10.8
40.0	11.6	11.4	11.2	10.9	10.7	10.6	10.3	10.1	10.0	9.8
42.0	10.8	10.5	10.4	10.1	9.9	9.8	9.5	9.3	9.1	8.9
44.0	10.1/43.8	9.8	9.7	9.4	9.1	9.0	8.7	8.5	8.4	8.2
46.0		9.1	9.0	8.7	8.4	8.3	8.0	7.8	7.7	7.5
48.0		9.0/46.5	8.4	8.1	7.8	7.7	7.4	7.2	7.0	6.8
50.0			8.1/49.1	7.5	7.3	7.1	6.8	6.6	6.5	6.2
52.0				7.1/51.8	6.8	6.6	6.3	6.1	5.9	5.6
54.0					6.3	6.1	5.8	5.5	5.3	5.0
56.0					6.2/54.4	5.7	5.3	5.0	4.8	4.5
58.0						5.5/57.0	4.9	4.5	4.3	4.0
60.0							4.5/59.7	4.1	3.8	3.5
62.0								3.7	3.4	3.1
64.0								3.6/62.3	3.0	2.7
66.0									2.9/65.0	2.4/66.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Light-duty Aux. Sheave Lifting Capacities

Rated loads in metric tons for 360° working area (wihout main hook)

(Counterweight: 66.6 t)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	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)
5.0	13.5/5.7									
6.0	13.5	13.5/6.2	13.5/6.8							
7.0	13.5	13.5	13.5	13.5/7.3	13.5/7.8					
8.0	13.5	13.5	13.5	13.5	13.5	13.5/8.4	13.5/8.9			
9.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/9.4	13.5/9.9	
10.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5/10.5
12.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20.0	13.5/18.7	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22.0		13.5/21.4	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24.0			13.5/24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26.0				13.5	13.5	13.5	13.5	13.5	13.5	13.5
28.0				13.5/26.7	13.5	13.5	13.5	13.5	13.5	13.5
30.0					13.5/29.3	13.5	13.5	13.5	13.5	13.5
32.0						13.5/31.9	13.5	13.5	13.5	13.5
34.0							13.5	13.5	13.5	13.5
36.0							13.5/34.6	13.5	13.5	13.5
38.0								13.4/37.2	12.7	12.5
40.0									11.8/39.9	11.6
42.0										10.8
44.0										10.6/42.5

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius m \ Boom length m (ft)	48.8 (160)	51.8 (170)	54.9 (180)	57.9 (190)	61.0 (200)	64.0 (210)	67.1 (220)	70.1 (230)	73.2 (240)
9.0									
10.0	13.511.0								
12.0	13.5	13.5/11.5	13.5/12.1	13.5/12.6	13.5/13.1	13.5/13.7			
14.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5/14.2	13.5/14.7	13.5/15.2
16.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
18.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
20.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
22.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
24.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
26.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
28.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
30.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
32.0	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.5
34.0	13.5	13.5	13.5	13.5	13.5	13.5	13.3	13.1	12.9
36.0	13.3	13.0	12.9	12.6	12.4	12.3	12.1	11.8	11.7
38.0	12.2	12.0	11.9	11.6	11.4	11.3	11.0	10.8	10.7
40.0	11.3	11.1	10.9	10.6	10.4	10.3	10.0	9.8	9.7
42.0	10.5	10.2	10.1	9.8	9.6	9.5	9.2	9.0	8.8
44.0	9.8	9.5	9.4	9.1	8.8	8.7	8.4	8.2	8.1
46.0	9.5/45.1	8.8	8.7	8.4	8.1	8.0	7.7	7.5	7.4
48.0		8.2/47.8	8.1	7.8	7.5	7.4	7.1	6.9	6.7
50.0			7.5	7.2	7.0	6.8	6.5	6.3	6.2
52.0			7.4/50.4	6.8	6.5	6.3	6.0	5.8	5.6
54.0				6.5/53.1	6.0	5.8	5.5	5.2	5.0
56.0					5.6/55.7	5.4	5.0	4.7	4.5
58.0						5.0	4.6	4.2	4.0
60.0						4.9/58.3	4.2	3.8	3.5
62.0							4.0/61.0	3.4	3.1
64.0								3.1/63.6	2.7
66.0									2.4/66.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Long Boom Lifting Capacities

Rated loads in metric tons for 360° working area

(Counterweight: 82.2 t, Carbody weight: 20.0 t)

Unit: metric ton
Crawlers fully extended

Working radius m \ Boom length m (ft)	70.1 (230)	73.2 (240)	76.2 (250)	79.3 (260)	82.3 (270)	85.3 (280)	88.4 (290)	Boom length m (ft) \ Working radius m
12.0	37.5/13.9							12.0
14.0	37.5	37.5/14.4	34.0/14.9	32.2/15.4				14.0
16.0	36.0	35.9	33.0	31.6	31.0/16.0	25.0/16.5	25.0/17.0	16.0
18.0	34.4	34.3	31.2	29.9	29.2	25.0	24.9	18.0
20.0	33.0	32.9	29.7	28.4	27.7	25.0	23.4	20.0
22.0	31.7	31.6	28.4	27.0	26.4	25.0	22.1	22.0
24.0	28.8	28.7	27.2	25.8	25.2	23.7	20.9	24.0
26.0	25.8	25.7	25.6	24.8	24.1	22.6	19.9	26.0
28.0	23.4	23.3	23.2	23.1	23.0	21.6	19.0	28.0
30.0	21.2	21.1	21.0	20.9	20.8	20.7	18.2	30.0
32.0	19.4	19.3	19.2	19.1	19.0	18.9	17.5	32.0
34.0	17.8	17.7	17.6	17.5	17.4	17.3	16.9	34.0
36.0	16.4	16.3	16.2	16.1	16.0	15.9	15.8	36.0
38.0	15.2	15.1	15.0	14.9	14.8	14.7	14.6	38.0
40.0	14.1	14.0	13.9	13.8	13.7	13.6	13.5	40.0
42.0	13.1	13.0	12.9	12.8	12.7	12.6	12.5	42.0
44.0	12.2	12.1	12.0	11.9	11.8	11.7	11.6	44.0
46.0	11.4	11.3	11.2	11.1	11.0	10.9	10.8	46.0
48.0	10.7	10.6	10.5	10.4	10.3	10.2	10.1	48.0
50.0	10.1	9.9	9.8	9.7	9.6	9.5	9.4	50.0
52.0	9.5	9.3	9.2	9.1	9.0	8.9	8.8	52.0
54.0	8.9	8.8	8.7	8.6	8.5	8.4	8.3	54.0
56.0	8.4	8.3	8.2	8.1	8.0	7.9	7.8	56.0
58.0	7.9	7.8	7.7	7.6	7.5	7.4	7.3	58.0
60.0	7.4	7.3	7.2	7.1	7.0	6.9	6.8	60.0
62.0	6.7	6.7	6.7	6.6	6.5	6.4	6.3	62.0
64.0	6.6/62.3	6.1	6.2	6.1	6.0	5.9	5.8	64.0
66.0		5.8/64.9	5.6	5.6	5.5	5.4	5.3	66.0
68.0			5.2/67.5	5.1	5.0	4.9	4.8	68.0
70.0				4.6/70.0	4.5	4.4	4.3	70.0
72.0					4.0	3.9	3.8	72.0
74.0					3.8/72.8	3.4	3.3	74.0
76.0						3.0/75.5	2.8	76.0
78.0							2.4/78.0	78.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Aux. Sheave Rated loads for 360° working area (without main hook)

(Counterweight: 82.2 t, Carbody weight: 20.0 t)

Working radius m \ Boom length m (ft)	70.1 (230)	73.2 (240)	76.2 (250)	79.3 (260)	82.3 (270)	85.3 (280)	Boom length m (ft) \ Working radius m
14.0	13.5/14.6	13.5/15.1	13.5/15.6				14.0
16.0	13.5	13.5	13.5	13.5/16.1	13.5/16.7	13.5/17.2	16.0
18.0	13.5	13.5	13.5	13.5	13.5	13.5	18.0
20.0	13.5	13.5	13.5	13.5	13.5	13.5	20.0
22.0	13.5	13.5	13.5	13.5	13.5	13.5	22.0
24.0	13.5	13.5	13.5	13.5	13.5	13.5	24.0
26.0	13.5	13.5	13.5	13.5	13.5	13.5	26.0
28.0	13.5	13.5	13.5	13.5	13.5	13.5	28.0
30.0	13.5	13.5	13.5	13.5	13.5	13.5	30.0
32.0	13.5	13.5	13.5	13.5	13.5	13.5	32.0
34.0	13.5	13.5	13.5	13.5	13.5	13.5	34.0
36.0	13.5	13.5	13.5	13.5	13.5	13.5	36.0
38.0	13.5	13.5	13.5	13.5	13.5	13.5	38.0
40.0	13.5	13.5	13.5	13.5	13.4	13.3	40.0
42.0	12.8	12.7	12.6	12.5	12.4	12.3	42.0
44.0	11.9	11.8	11.7	11.6	11.5	11.4	44.0
46.0	11.1	11.0	10.9	10.8	10.7	10.6	46.0
48.0	10.4	10.3	10.2	10.1	10.0	9.9	48.0
50.0	9.8	9.6	9.5	9.4	9.3	9.2	50.0
52.0	9.2	9.0	8.9	8.8	8.7	8.6	52.0
54.0	8.6	8.5	8.4	8.3	8.2	8.1	54.0
56.0	8.1	8.0	7.9	7.8	7.7	7.6	56.0
58.0	7.6	7.5	7.4	7.3	7.2	7.1	58.0
60.0	7.1	7.0	6.9	6.8	6.7	6.6	60.0
62.0	6.4	6.4	6.4	6.3	6.2	6.1	62.0
64.0	5.9/63.5	5.8	5.9	5.8	5.7	5.6	64.0
66.0		5.3/66.0	5.3	5.3	5.2	5.1	66.0
68.0			4.8	4.8	4.7	4.6	68.0
70.0			4.6/68.7	4.3	4.2	4.1	70.0
72.0				4.0/71.4	3.7	3.6	72.0
74.0					3.2/74.0	3.1	74.0
76.0						2.6	76.0
78.0						2.4/76.7	78.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Long Boom Lifting Capacities

Rated loads in metric tons for 360° working area

(Counterweight: 66.6 t)

Unit: metric ton
Crawlers fully extended

Long	70.1 (230)	73.2 (240)	76.2 (250)	79.3 (260)	82.3 (270)	85.3 (280)	88.4 (290)	Long
12.0	37.5/13.9							12.0
14.0	37.5	37.5/14.4	34.0/14.9	32.2/15.4				14.0
16.0	36.0	35.9	33.0	31.6	31.0/16.0	25.0/16.5	25.0/17.0	16.0
18.0	34.4	34.3	31.2	29.9	29.2	25.0	24.9	18.0
20.0	31.0	30.9	29.7	28.4	27.7	25.0	23.4	20.0
22.0	27.2	27.1	27.0	26.9	26.4	25.0	22.1	22.0
24.0	24.0	23.9	23.8	23.7	23.6	23.5	20.9	24.0
26.0	21.4	21.3	21.2	21.1	21.0	20.9	19.9	26.0
28.0	19.3	19.2	19.1	19.0	18.9	18.8	18.7	28.0
30.0	17.4	17.3	17.2	17.1	17.0	16.9	16.8	30.0
32.0	15.9	15.8	15.7	15.6	15.5	15.4	15.3	32.0
34.0	14.5	14.4	14.3	14.2	14.1	14.0	13.9	34.0
36.0	13.3	13.2	13.1	13.0	12.9	12.8	12.7	36.0
38.0	12.2	12.1	12.0	11.9	11.8	11.7	11.6	38.0
40.0	11.3	11.2	11.1	11.0	10.9	10.8	10.7	40.0
42.0	10.4	10.3	10.2	10.1	10.0	9.9	9.8	42.0
44.0	9.7	9.5	9.4	9.3	9.2	9.1	9.0	44.0
46.0	9.0	8.9	8.7	8.6	8.5	8.4	8.3	46.0
48.0	8.3	8.2	8.1	8.0	7.9	7.8	7.7	48.0
50.0	7.8	7.6	7.5	7.4	7.3	7.2	7.1	50.0
52.0	7.2	7.1	7.0	6.9	6.8	6.7	6.6	52.0
54.0	6.8	6.6	8.5	6.4	6.3	6.2	6.1	54.0
56.0	6.3	6.2	6.1	6.0	5.9	5.8	5.7	56.0
58.0	5.9	5.8	5.7	5.6	5.5	5.4	5.3	58.0
60.0	5.6	5.4	5.3	5.2	5.1	5.0	4.9	60.0
62.0	5.2	5.1	4.9	4.8	4.6	4.5	4.4	62.0
64.0	5.2/62.3	4.7	4.5	4.4	4.2	4.1	4.0	64.0
66.0		4.5/64.9	4.1	4.0	3.9	3.8	3.7	66.0
68.0			3.9/67.5	3.7	3.6	3.5	3.4	68.0
70.0				3.4/70.0	3.2	3.1	3.0	70.0
72.0					3.0	2.9	3.8	72.0
74.0					2.8/72.8	2.7	2.6	74.0
76.0						2.6/75.5	2.4/76.0	76.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Aux. Sheave Rated loads for 360° working area (without main hook)

(Counterweight: 66.6 t)

Long	70.1 (230)	73.2 (240)	76.2 (250)	79.3 (260)	82.3 (270)	85.3 (280)	Long
14.0	13.5/14.6	13.5/15.1	13.5/15.6				14.0
16.0	13.5	13.5	13.5	13.5/16.1	13.5/16.7	13.5/17.2	16.0
18.0	13.5	13.5	13.5	13.5	13.5	13.5	18.0
20.0	13.5	13.5	13.5	13.5	13.5	13.5	20.0
22.0	13.5	13.5	13.5	13.5	13.5	13.5	22.0
24.0	13.5	13.5	13.5	13.5	13.5	13.5	24.0
26.0	13.5	13.5	13.5	13.5	13.5	13.5	26.0
28.0	13.5	13.5	13.5	13.5	13.5	13.5	28.0
30.0	13.5	13.5	13.5	13.5	13.5	13.5	30.0
32.0	13.5	13.5	13.5	13.5	13.5	13.5	32.0
34.0	13.5	13.5	13.5	13.5	13.5	13.5	34.0
36.0	13.0	12.9	12.8	12.7	12.6	12.5	36.0
38.0	11.9	11.8	11.7	11.6	11.5	11.4	38.0
40.0	11.0	10.9	10.8	10.7	10.6	10.5	40.0
42.0	10.1	10.0	9.9	9.8	9.7	9.6	42.0
44.0	9.4	9.2	9.1	9.0	8.9	8.8	44.0
46.0	8.7	8.6	8.4	8.3	8.2	8.1	46.0
48.0	8.0	7.9	7.8	7.7	7.6	7.5	48.0
50.0	7.5	7.3	7.2	7.1	7.0	6.9	50.0
52.0	6.9	6.8	6.7	6.6	6.5	6.4	52.0
54.0	6.5	6.3	6.2	6.1	6.0	5.9	54.0
56.0	6.0	5.9	5.8	5.7	5.6	5.5	56.0
58.0	5.6	5.5	5.4	5.3	5.2	5.1	58.0
60.0	5.3	5.1	5.0	4.9	4.8	4.7	60.0
62.0	4.9	4.8	4.6	4.5	4.3	4.2	62.0
64.0	4.6/63.5	4.4	4.2	4.1	3.9	3.8	64.0
66.0		4.0/66.0	3.8	3.7	3.6	3.5	66.0
68.0			3.4	3.4	3.3	3.2	68.0
70.0			3.3/68.7	3.1	2.9	2.8	70.0
72.0				2.9/71.4	2.7	2.6	72.0
74.0					2.5/74.0	2.4/74.0	74.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Luffing Tower Attachment

Tower (optional):

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

Max. lifting capacity	25,000 kg
Basic tower length	36.6 m (120’)
Max. tower length	58.0 m (190’)

Tower Jib (optional):

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

	Tower jib
Basic tower jib length	27.4 m (90’)
Max. total length (Tower length + jib length)	58.0m (190’) + 48.8m (160’)

Hook Blocks

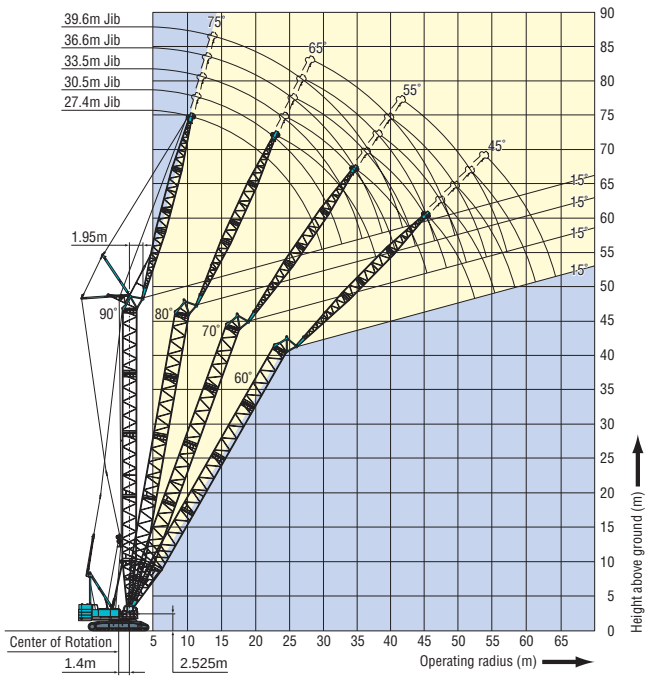
A range of hook blocks can be specified, each with a safety latch.

Lifting capacity	35-ton	13.5-ton ball hook
No. of sheaves	3	0
Weight (kg)	900	450

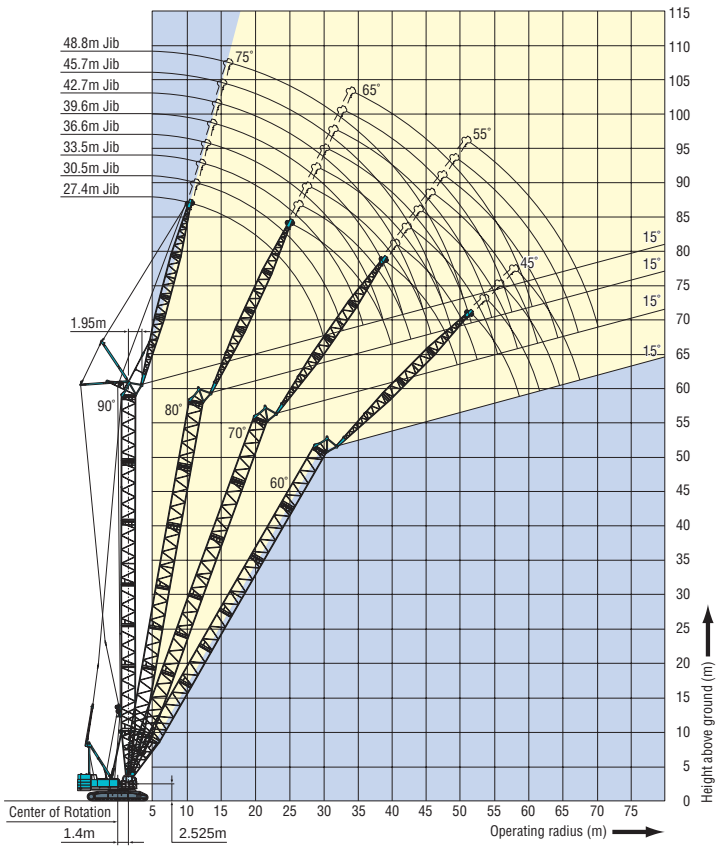
Diameter of wire ropes
Standard:
Hook hoist ..... 28 mm
Tower hoist (8-part line) ..... 22 mm
Tower guy line (2 x 2 lines) ..... 34 mm
Optional:
Jib hook hoist ..... 28 mm
Jib back stay guy line (2 lines) ..... 34 mm
Tower hoist reeving: 16 parts of 22 mm dia. wire rope
Jib hoist reeving: 8 parts of 22 mm dia. wire rope
Tower backstops: reqiured for all tower lengths

Luffing Tower Working Ranges

Tower Length: 45.8 m



Tower Length: 58.0 m



Note: Please contact your nearest KOBELCO dealer for information on working ranges not shown here.

Lifting capacities

Notes:

1. Operating radius is the horizontal distance from centerline of rotation to a vertical line through the center of gravity the load.
2. Deduct weight of hook block(s), slings and all other load handling accessories from main boom or jib rated loads shown.
3. Rated loads 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.
4. At radii and boom length where no ratings are shown on chart, operation is not intended or approved.
5. Rated loads surrounded by thick lines in the charts are determined by the machine's structural strength, and others are determined by the machine's stability.
6. Gantry must be in raised position for all conditions.
7. Tower inserts and jib inserts must be arranged as shown in the "Tower Arrangement" or "Jib Arrangement".
8. **Luffing Tower Rated Loads**
   Deduct weight of hook block, slings and all other load handling accessories from main boom rated loads shown.
9. Main Hoist Drum Rated Loads in Metric Tons

No. of Part Line	1	2
Max. Loads (ton)	13.5	25

10. 13.5-ton ball hook cannot be fitted to jib of 27.4 m.
11. When tower length is 54.9 m or 58.0 m, pillow plate in front of crawlers must be used for erection.
12. Tower hoist reeving must be sixteen parts of line.
13. In principle, the tower should be erected over the front of the crawlers.
14. Figures shown by (ft) in the tower (and jib) configuration are for reference only.

Tower and Jib Arrangement

Tower Arrangement Chart (Refer to P. 13)

Boom length m (ft)	Boom arrangement
36.6 (120)	Base-C'-C-C-Cap
39.7 (130)	Base-C'-A-C-C-Cap
42.7 (140)	Base-C'-A-C-C-A-Cap
45.8 (150)	Base-C'-A-B--C-C-Cap
48.8 (160)	Base-C'-A-A-B-C-C-Cap
51.9 (170)	Base-C'-A-B-C-B-C-Cap
54.9 (180)	Base-C'-A-B-C-C-C-Cap
58.0 (190)	Base-C'-A-A-B-C-C-C-Cap

Base Boom Length and Tower Cap Length:
Base = 6.1 m (20'), Cap = 1.6 m (5')
Insert Tower:
A = 3.0 m (10'), B = 6.1 m (20'), C = 9.1 m (30')
C'= 9.1 m (30') : Insert tower jib, with guide sheave,

NOTE: Tables show standard tower and jib arrangements. Other arrangements are also available. For more information, please contact your nearest KOBELCO Dealer.

Jib Arrangement Chart (Refer to P. 13)

Jib length m (ft)	Tower jib arrangement
27.4 (90)	Base-D-F-Tip(Lg)
33.5 (110)	Base-D-E-E-F-Tip(Lg)
36.6 (120)	Base-D-E-F-F-Tip(Lg)
39.6 (130)	Base-D-E-F-G-Tip(Lg)
42.7 (140)	Base-D-E-E-F-G-Tip(Lg)
45.7 (150)	Base-D-E-F-F-G-Tip(Lg)
48.8 (160)	Base-D-E-F-G-G-Tip(Lg)

Base Jib Length and Jib Tip Length:
Base = 10.0 m (33'), Tip(Lg) = 5.2 m (17')
Insert jib:
D = 3.0 m (10'): mid-point boom,
E = 3.0 m (10'), F = 6.0 m (20'), G = 9.0 m (30')
NOTE: E, F and G: combined use with insert tower jib

Tower and Jib Combinations and Allowable Tower Angle

Tower length	27.4 m jib	30.4 m jib	33.5 m jib	36.6 m jib	39.6 m jib	42.7 m jib	45.7 jib	48.8 jib	Pillow plate
36.6 m	60° - 90°	60° - 90°	-	-	-	-	-	-	-
39.7 m	60° - 90°	60° - 90°	60° - 90°	-	-	-	-	-	-
42.7 m	60° - 90°	60° - 90°	60° - 90°	60° - 90°	-	-	-	-	-
45.8 m	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	-	-	-	-
48.8 m	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	-	-	-
51.9 m	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	-	-
54.9 m	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	60° - 90°	70° - 90°	70° - 90°	○
58.0 m	60° - 90°	60° - 90°	60° - 90°	60° - 90°	70° - 90°	70° - 90°	70° - 90°	70° - 90°	○

Luffing Tower Lifting Capacities

Luffing Tower Rated loads in metric tons for 360° working area (Tower length: 36.6 m)

Unit: metric ton
Crawlers fully extended

Working radius (m)	36.6 m (120 ft) Tower								Working radius (m)
	27.4 m (90') Jib				30.5 m (100') Jib				
	Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	
	25.0/10.7								
11.0	25.0				24.4/11.5				11.0
12.0	25.0				24.2				12.0
13.0	25.0				24.0				13.0
14.0	25.0				23.8				14.0
15.0	24.8				23.6				15.0
16.0	24.6				23.4				16.0
18.0	24.2				23.0				18.0
20.0	23.8	19.0/21.5			22.6				20.0
22.0	23.1	18.3			22.3	18.2/22.8			22.0
24.0	19.9	16.3			20.3	16.2			24.0
26.0	17.1	14.8			17.7	14.7			26.0
28.0	14.1	13.4			15.5	13.3			28.0
30.0	10.2/29.9	12.3	11.6/31.7		13.4	12.2			30.0
32.0		11.4	11.4		10.5	11.3	10.5/33.5		32.0
34.0		10.6	10.6		8.9/32.9	10.5	10.4		34.0
36.0		9.9	9.9			9.8	9.7		36.0
38.0		9.8/36.3	9.3			9.2	9.1		38.0
40.0			8.8	8.5/41.0		8.9/39.2	8.6		40.0
42.0			8.3	8.2			8.1	7.6/43.2	42.0
44.0			8.2/42.3	7.7			7.6	7.4	44.0
46.0				7.2			7.5/45.3	7.0	46.0
48.0				6.7/48.0				6.6	48.0
50.0								6.2	50.0
52.0								6.0/50.9	52.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Luffing Tower Rated loads in metric tons for 360° working area (Tower length: 39.7m)

Working radius (m)	39.7 m (130 ft) Tower												Working radius (m)
	27.4m (90') Jib				30.5m (100') Jib				33.5 m (110') Jib				
	Tower angle				Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
	25.0/10.7												
11.0	25.0				24.4/11.5								11.0
12.0	25.0				24.2				22.7/12.3				12.0
13.0	25.0				24.0				22.5				13.0
14.0	25.0				23.8				22.3				14.0
15.0	24.8				23.6				22.1				15.0
16.0	24.6				23.4				21.9				16.0
18.0	24.2				23.0				21.5				18.0
20.0	23.8				22.6				21.1				20.0
22.0	23.1	18.3/22.1			22.2	16.8/23.4			20.7				22.0
24.0	19.9	16.3			20.3	16.2			20.3	15.7/24.6			24.0
26.0	17.1	14.8			17.7	14.7			18.0	14.6			26.0
28.0	14.1	13.4			15.5	13.3			15.9	13.2			28.0
30.0	10.2/29.9	12.3			13.4	12.2			14.0	12.1			30.0
32.0		11.4	11.0/32.8		10.5	11.3			12.3	11.2			32.0
34.0		10.6	10.6		8.9/32.9	10.5	10.4/34.5		10.3	10.4			34.0
36.0		9.9	9.9			9.8	9.7		7.8/35.8	9.7	9.6/36.3		36.0
38.0		9.6/36.8	9.3			9.2	9.1			9.1	8.9		38.0
40.0			8.8			8.8/39.7	8.6			8.6	8.4		40.0
42.0			8.3	7.7/42.5			8.1			8.1	7.9		42.0
44.0			7.9/43.4	7.4			7.6	7.1/44.7		7.9/42.7	7.4		44.0
46.0				7.0			7.2	6.9			7.0	6.6/46.8	46.0
48.0				6.3/49.5			7.1/46.3	6.5			6.6	6.6	48.0
50.0								6.1			6.3/49.3	6.0	50.0
52.0								5.7				5.6	52.0
54.0								5.6/52.4				5.2	54.0
56.0												4.9/55.4	56.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Luffing Tower Lifting Capacities

Rated loads in metric tons for 360° working area (Tower length: 42.7m)

Unit: metric ton
Crawlers fully extended

Working radius (m)	42.7 m (140 ft) Tower															
	27.4m (90') Jib				30.5 m (100') Jib				33.5 m (110') Jib				36.6 m (120') Jib			
	Tower angle				Tower angle				Tower angle				Tower angle			
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
	25.0/10.7															
11.0	25.0				24.4/11.5											
12.0	25.0				24.2				22.7/12.3							
13.0	25.0				24.0				22.5				21.0/13.1			
14.0	25.0				23.8				22.3				20.8			
15.0	24.8				23.6				22.1				20.6			
16.0	24.6				23.4				21.9				20.4			
18.0	24.2				23.0				21.5				20.0			
20.0	23.8				22.6				21.1				19.6			
22.0	23.1	17.8/22.6			22.2	16.2/23.9			20.7				19.2			
24.0	19.9	16.3			20.3	16.2			20.3	15.2/25.2			18.8			
26.0	17.1	14.8			17.7	14.7			18.0	14.6			18.3	14.1/26.5		
28.0	14.1	13.4			15.5	13.3			15.9	13.2			16.2	13.1		
30.0	10.2/29.9	12.3			13.4	12.2			14.0	12.1			14.4	12.0		
32.0		11.4	10.7/33.8		10.5	11.3			12.3	11.2			12.8	11.1		
34.0		10.6	10.6		8.9/32.9	10.5	9.8/35.6		10.3	10.4			11.4	10.3		
36.0		9.9	9.9			9.8	9.7		7.8/35.8	9.7	9.1/37.3		10.0	9.6		
38.0		9.5/37.3	9.3			9.2	9.1			9.1	8.9		8.0	9.0	8.5/39.1	
40.0			8.8			8.7	8.6			8.6	8.4		6.9/38.8	8.5	8.2	
42.0			8.3			8.6/40.3	8.1			8.1	7.9			8.0	7.7	
44.0			7.8	7.0/44.1			7.6			7.8/43.2	7.4			7.5	7.2	
46.0			7.7/44.4	6.7			7.2	6.4/46.2			7.0			7.1	6.8	
48.0				6.4			6.9/47.4	6.2			6.6	5.9/48.4		7.1/46.1	6.4	
50.0				6.1				5.9			6.2	5.7			6.0	5.3/50.5
52.0				5.9/51.0				5.6			6.2/50.3	5.4			5.7	5.2
54.0								5.3/54.0				5.1			5.5/53.3	4.9
56.0												4.8				4.6
58.0												4.6/56.9				4.3
60.0																4.0/59.9

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Rated loads in metric tons for 360° working area (Tower length: 45.8 m)

Unit: metric ton
Crawlers fully extended

Working radius (m)	45.8 m (150 ft) Tower								Working radius (m)
	27.4 m (90') Jib				30.5 m (100') Jib				
	Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	
	25.0/10.7								
11.0	25.0				24.4/11.5				11.0
12.0	25.0				24.2				12.0
13.0	25.0				24.0				13.0
14.0	25.0				23.8				14.0
15.0	24.8				23.6				15.0
16.0	24.6				23.4				16.0
18.0	24.2				23.0				18.0
20.0	23.8				22.6				20.0
22.0	23.1	17.3/23.1			22.2				22.0
24.0	19.9	16.3			20.3	16.0/24.4			24.0
26.0	17.1	14.8			17.7	14.7			26.0
28.0	14.1	13.4			15.5	13.3			28.0
30.0	10.2/29.9	12.3			13.4	12.2			30.0
32.0		11.4			10.5	11.3			32.0
34.0		10.6	10.2/34.9		8.9/32.9	10.5			34.0
36.0		9.9	9.9			9.8	9.5/36.6		36.0
38.0		9.3/37.8	9.3			9.2	9.1		38.0
40.0			8.8			8.7	8.6		40.0
42.0			8.3			8.4/48.4	8.1		42.0
44.0			7.8	6.6/45.6			7.6		44.0
46.0			7.5/45.5	6.5			7.2	6.1/47.7	46.0
48.0				6.2			6.8	6.1	48.0
50.0				5.9			6.7/48.4	5.8	50.0
52.0				5.6				5.5	52.0
54.0				5.5/52.5				5.2	54.0
56.0								4.9/55.5	56.0

Note: rating inside shown in ☐ are determined by the strength of the boom or other structural components.

Working radius (m)	45.8 m (150 ft) Tower												Working radius (m)
	33.5 m (100') Jib				36.6 m (110') Jib				39.6 m (120') Jib				
	Tower angle				Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
12.0	22.7/12.3												12.0
13.0	22.5				21.0/13.1				19.3/13.9				13.0
14.0	22.3				20.8				19.3				14.0
15.0	22.1				20.6				19.1				15.0
16.0	21.9				20.4				18.9				16.0
18.0	21.5				20.0				18.5				18.0
20.0	21.1				19.6				18.1				20.0
22.0	20.7				19.2				17.7				22.0
24.0	20.3	14.8/25.7			18.8				17.3				24.0
26.0	18.0	14.6			18.3	13.8/27.0			16.9				26.0
28.0	15.9	13.2			16.2	13.1			16.5	12.9/28.3			28.0
30.0	14.0	12.1			14.4	12.0			14.6	11.9			30.0
32.0	12.3	11.2			12.8	11.1			13.0	11.0			32.0
34.0	10.3	10.4			11.4	10.3			11.7	10.2			34.0
36.0	7.8/35.8	9.7			10.0	9.6			10.5	9.5			36.0
38.0		9.1	8.5/38.4		8.0	9.0			9.4	8.9			38.0
40.0		8.6	8.4		6.9/38.8	8.5	8.2/40.1		8.0	8.4	7.6/41.9		40.0
42.0		8.1	7.9			7.5	7.7		6.1/41.7	7.9	7.6		42.0
44.0		7.8/43.7	7.4			7.1	7.2			7.4	7.1		44.0
46.0			7.0			7.0/46.7	6.8			7.0	6.7		46.0
48.0			6.6	5.5/49.9			6.4			6.6	6.3		48.0
50.0			6.2	5.5			6.0			6.4/49.6	5.9		50.0
52.0			6.0/51.3	5.3			5.7	5.0/52.0			5.6		52.0
54.0				5.0			5.5	4.8			5.4	4.6/54.2	54.0
56.0				4.8			5.4/54.3	4.6			5.1	4.4	56.0
58.0				4.5				4.4			4.8/57.2	4.2	58.0
60.0				4.4/58.4				4.2				4.0	60.0
62.0								4.0/61.4				3.8	62.0
64.0												3.6	64.0
66.0												3.5/64.3	66.0

Note: rating inside shown in ☐ are determined by the strength of the boom or other structural components.

Luffing Tower Lifting Capacities

Rated loads in metric tons for 360° working area (Tower length: 48.8 m)

Unit: metric ton
Crawlers fully extended

Working radius (m)	48.8 m (160 ft) Tower												Working radius (m)
	27.4 m (90') Jib				30.5 m (100') Jib				33.5 m (110') Jib				
	Tower angle				Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
	25.0/10.7												
11.0	25.0				24.4/11.5								11.0
12.0	25.0				24.2				22.7/12.3				12.0
13.0	25.0				24.0				22.5				13.0
14.0	25.0				23.8				22.3				14.0
15.0	24.8				23.6				22.1				15.0
16.0	24.6				23.4				21.9				16.0
18.0	24.2				23.0				21.5				18.0
20.0	23.8				22.6				21.1				20.0
22.0	23.1	16.6/23.7			22.2				20.7				22.0
24.0	19.9	16.3			20.3	15.4/24.9			20.3				24.0
26.0	17.1	14.8			17.7	14.7			18.0	14.5/26.2			26.0
28.0	14.1	13.4			15.5	13.3			15.9	13.2			28.0
30.0	10.2/29.9	12.3			13.4	12.2			14.0	12.1			30.0
32.0		11.4			10.5	11.3			12.3	11.2			32.0
34.0		10.6	9.9/35.9		8.9/32.9	10.5			10.3	10.4			34.0
36.0		9.9	9.9			9.8	9.2/37.7		7.8/35.8	9.7			36.0
38.0		9.3	9.3			9.2	9.1			9.1	8.5/39.4		38.0
40.0		9.2/38.4	8.8			8.7	8.6			8.6	8.4		40.0
42.0			8.3			8.4/41.3	8.1			8.1	7.9		42.0
44.0			7.8				7.6			7.6	7.4		44.0
46.0			7.4	5.9/47.1			7.2			7.5/44.3	7.0		46.0
48.0			7.3/46.5	5.9			6.8	5.3/49.3			6.6		48.0
50.0				5.6			6.5/49.4	5.2			6.2	5.0/51.4	50.0
52.0				5.3				5.0			5.9	4.9	52.0
54.0				5.0				4.8			5.8/52.4	4.7	54.0
56.0				5.0/54.1				4.6				4.5	56.0
58.0								4.5/57.0				4.3	58.0
60.0												4.1/60.0	60.0

Note: rating inside shown in [ ] are determined by the strength of the boom or other structural components.

Working radius (m)	48.8 m (160 ft) Tower												Working radius (m)
	36.6 m (120') Jib				39.6 m (130') Jib				42.7 m (140') Jib				
	Tower angle				Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
13.0	21.0/13.1				19.3/13.9								13.0
14.0	20.8				19.3				17.7/14.7				14.0
15.0	20.6				19.1				17.5				15.0
16.0	20.4				18.9				17.3				16.0
18.0	20.0				18.5				16.9				18.0
20.0	19.6				18.1				16.5				20.0
22.0	19.2				17.7				16.1				22.0
24.0	18.8				17.3				15.7				24.0
26.0	18.3	13.4/27.5			16.9				15.3				26.0
28.0	16.2	13.1			16.5	12.5/28.8			14.9				28.0
30.0	14.4	12.0			14.6	11.9			14.5	11.8/30.1			30.0
32.0	12.8	11.1			13.0	11.0			13.1	10.9			32.0
34.0	11.4	10.3			11.7	10.2			11.8	10.1			34.0
36.0	10.0	9.6			10.5	9.5			10.6	9.4			36.0
38.0	8.0	9.0			9.4	8.9			9.5	8.8			38.0
40.0	6.9/38.8	8.5	7.9/41.2		8.0	8.4			8.6	8.3			40.0
42.0		8.0	7.7		6.1/41.7	7.9	7.3/42.9		7.6	7.8			42.0
44.0		7.5	7.2			7.4	7.1		6.1	7.3	6.8/44.6		44.0
46.0		7.1	6.8			7.0	6.7		5.3/44.6	6.9	6.6		46.0
48.0		6.8/47.2	6.4			6.6	6.3			6.5	6.2		48.0
50.0			6.0			6.3	5.9			6.2	5.8		50.0
52.0			5.7	4.6/53.6		6.3/50.1	5.6			5.9	5.5		52.0
54.0			5.5	4.6			5.4	4.3/55.7		5.8/53.1	5.3		54.0
56.0			5.3/55.3	4.4			5.1	4.3			5.0	4.0/57.9	56.0
58.0				4.2			4.8	4.1			4.7	4.0	58.0
60.0				4.0			4.8/58.3	3.9			4.5	3.8	60.0
62.0				3.8				3.7			4.3/61.2	3.6	62.0
64.0				3.7/62.9				3.5				3.4	64.0
66.0								3.3/65.8				3.2	66.0
68.0												3.0	68.0
70.0												2.9/68.8	70.0

Note: rating inside shown in [ ] are determined by the strength of the boom or other structural components.

Rated loads in metric tons for 360° working area (Tower length: 51.9 m)

Unit: metric ton
Crawlers fully extended

Working radius (m)	51.9 m (170 ft) Tower												Working radius (m)
	27.4 m (90') Jib				30.5 m (100') Jib				33.5 m (110') Jib				
	Tower angle				Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
	25.0/10.7												
11.0	25.0				24.4/11.5								11.0
12.0	25.0				24.2				22.7/12.3				12.0
13.0	25.0				24.0				22.5				13.0
14.0	25.0				23.8				22.3				14.0
15.0	24.8				23.6				22.1				15.0
16.0	24.6				23.4				21.9				16.0
18.0	24.2				23.0				21.5				18.0
20.0	23.8				22.6				21.1				20.0
22.0	23.1				22.2				20.7				22.0
24.0	19.9	16.2/24.2			20.3	15.1/25.5			20.3				24.0
26.0	17.1	14.8			17.7	14.7			18.0	14.0/26.8			26.0
28.0	14.1	13.4			15.5	13.3			15.9	13.2			28.0
30.0	10.2/29.9	12.3			13.4	12.2			14.0	12.1			30.0
32.0		11.4			10.5	11.3			12.3	11.2			32.0
34.0		10.6			8.9/32.9	10.5			10.3	10.4			34.0
36.0		9.9	9.6/36.9			9.8			7.8/35.8	9.7			36.0
38.0		9.3	9.3			9.2	8.9/38.7			9.1			38.0
40.0		8.8/38.9	8.8			8.7	8.6			8.6	8.3/40.4		40.0
42.0			8.3			8.3/41.8	8.1			8.1	7.9		42.0
44.0			7.8				7.6			7.6	7.4		44.0
46.0			7.4				7.2			7.4/44.8	7.0		46.0
48.0			7.1/47.5	5.4/48.6			6.8				6.6		48.0
50.0				5.3			6.4	4.9/50.8			6.2		50.0
52.0				5.1			6.3/50.5	4.8			5.9	4.5/52.9	52.0
54.0				4.9				4.6			5.7/53.4	4.4	54.0
56.0				4.7/55.6				4.4				4.2	56.0
58.0								4.2				4.0	58.0
60.0								4.1/58.5				3.8	60.0
62.0												3.5/61.5	62.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius (m)	51.9 m (170 ft) Tower																
	36.6m (120') Jib				39.6 m (130') Jib				42.7 m (140') Jib				45.7 m (150') Jib				
	Tower angle				Tower angle				Tower angle				Tower angle				
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	
13.0	21.0/13.1				19.3/13.9												13.0
14.0	20.8				19.3				17.7/14.7								14.0
15.0	20.6				19.1				17.5				15.6/15.5				15.0
16.0	20.4				18.9				17.3				15.5				16.0
18.0	20.0				18.5				16.9				15.1				18.0
20.0	19.6				18.1				16.5				14.7				20.0
22.0	19.2				17.7				16.1				14.3				22.0
24.0	18.8				17.3				15.7				13.9				24.0
26.0	18.3				16.9				15.3				13.5				26.0
28.0	16.2	13.1/28.1			16.5	12.2/29.3			14.9				13.1				28.0
30.0	14.4	12.0			14.6	11.9			14.5	11.5/30.6			12.7	10.8/31.9			30.0
32.0	12.8	11.1			13.0	11.0			13.1	10.9			12.3	10.8			32.0
34.0	11.4	10.3			11.7	10.2			11.8	10.1			11.9	10.0			34.0
36.0	10.0	9.6			10.5	9.5			10.6	9.4			10.7	9.3			36.0
38.0	8.0	9.0			9.4	8.9			9.5	8.8			9.7	8.7			38.0
40.0	6.9/38.8	8.5			8.0	8.4			8.6	8.3			8.8	8.2			40.0
42.0		8.0	7.9/42.2		6.1/41.7	7.9	7.1/43.9		7.6	7.8			7.9	7.7			42.0
44.0		7.5	7.7			7.4	7.1		6.1	7.3	6.7/45.7		7.1	7.2			44.0
46.0		7.1	7.2			7.0	6.7		5.3/44.6	6.9	6.6		6.1	6.8	6.2/47.4		46.0
48.0		6.8/47.7	6.8			6.6	6.3			6.5	6.2		4.7/47.6	6.4	6.1		48.0
50.0			6.4			6.3	5.9			6.2	5.8			6.1	5.7		50.0
52.0			6.0			6.2/50.7	5.6			5.9	5.5			5.8	5.5		52.0
54.0			5.7	4.2/55.1			5.4			5.7/53.6	5.3			5.5	5.2		54.0
56.0			5.5	4.1			5.1	3.9/57.2			5.0			5.2	4.9		56.0
58.0			5.1/56.4	3.9			4.8	3.8			4.7	3.6/59.4		5.1/56.6	4.6		58.0
60.0				3.7			4.6/59.3	3.6			4.5	3.5			4.4	3.2/61.6	60.0
62.0				3.5				3.4			4.3	3.3			4.2	3.2	62.0
64.0				3.3				3.2			4.2/62.3	3.1			4.0	3.0	64.0
66.0				3.2/64.4				3.0				2.9			3.9/65.2	2.8	66.0
68.0								2.7/67.4				2.7				2.6	68.0
70.0												2.5				2.4	70.0
72.0												2.4/70.3				2.2/72.0	72.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Luffing Tower Lifting Capacities

Rated loads in metric tons for 360° working area (Tower length: 51.9 m)

Unit: metric ton
Crawlers fully extended

Working radius (m)	54.9 m (180 ft) Tower															
	27.4m (90') Jib				30.5 m (100') Jib				33.5 m (110') Jib				36.6 m (120') Jib			
	Tower angle				Tower angle				Tower angle				Tower angle			
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
	25.0/10.7															
11.0	25.0				24.4/11.5											
12.0	25.0				24.2				22.7/12.3							
13.0	25.0				24.0				22.5				21.0/13.1			
14.0	25.0				23.8				22.3				20.8			
15.0	24.8				23.6				22.1				20.6			
16.0	24.6				23.4				21.9				20.4			
18.0	24.2				23.0				21.5				20.0			
20.0	23.8				22.6				21.1				19.6			
22.0	23.1				22.2				20.7				19.2			
24.0	19.9	15.6/24.7			20.3				20.3				18.8			
26.0	17.1	14.8			17.7	14.7/26.0			18.0	13.7/27.3			18.3			
28.0	14.1	13.4			15.5	13.3			15.9	13.2			16.2	12.8/28.6		
30.0	10.2/29.9	12.3			13.4	12.2			14.0	12.1			14.4	12.0		
32.0		11.4			10.5	11.3			12.3	11.2			12.8	11.1		
34.0		10.6			8.9/32.9	10.5			10.3	10.4			11.4	10.3		
36.0		9.9				9.8			7.8/35.8	9.7			10.0	9.6		
38.0		9.3	9.3/38.0			9.2	8.9/39.7			9.1			8.0	9.0		
40.0		8.9/39.4	8.8			8.7	8.6			8.6	8.0/41.5		6.9/38.8	8.5		
42.0			8.3			8.2	8.1			8.1	7.9			8.0	7.4/43.2	
44.0			7.8			8.0/42.4	7.6			7.6	7.4			7.5	7.2	
46.0			7.4				7.2			7.3/45.3	7.0			7.1	6.8	
48.0			7.0				6.8				6.6			6.7	6.4	
50.0			6.9/48.6	5.1/50.2			6.4				6.2			6.7/48.3	6.0	
52.0				4.9			6.2/51.5	4.6/52.3			5.9				5.7	
54.0				4.7				4.4			5.7	4.2/54.5			5.5	
56.0				4.5				4.2			5.6/54.5	4.0			5.2	3.9/56.6
58.0				3.9				4.0				3.8			5.0/57.4	3.7
60.0				4.4/57.1				3.8				3.6				3.5
62.0								3.8/60.1				3.4				3.3
64.0												3.3/63.0				3.1
66.0																2.9/66.0

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius (m)	54.9 m (180 ft) Tower													
	39.6m (130') Jib				42.7 m (140') Jib				45.7 m (150') Jib			48.8 m (160') Jib		
	Tower angle				Tower angle				Tower angle			Tower angle		
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	90°	80°	70°
13.0	19.3/13.9													
14.0	19.3				17.7/14.7									
15.0	19.1				17.5				15.6/15.5					
16.0	18.9				17.3				15.5			13.8/16.3		
18.0	18.5				16.9				15.1			13.4		
20.0	18.1				16.5				14.7			13.0		
22.0	17.7				16.1				14.3			12.6		
24.0	17.3				15.7				13.9			12.2		
26.0	16.9				15.3				13.5			11.8		
28.0	16.5	11.9/29.9			14.9				13.1			11.4		
30.0	14.6	11.9			14.5	11.5/31.2			12.7			11.0		
32.0	13.0	11.0			13.1	10.9			12.3	10.7/32.4		10.6	10.0/33.7	
34.0	11.7	10.2			11.8	10.1			11.9	10.0		10.2	9.9	
36.0	10.5	9.5			10.6	9.4			10.7	9.3		9.8	9.2	
38.0	9.4	8.9			9.5	8.8			9.7	8.7		9.4	8.6	
40.0	8.0	8.4			8.6	8.3			8.8	8.2		8.9	8.1	
42.0	6.1/41.7	7.9			7.6	7.8			7.9	7.7		8.0	7.6	
44.0		7.4	6.9/45.0		6.1	7.3			7.1	7.2		7.3	7.1	
46.0		7.0	6.7		5.3/44.6	6.9	6.3/46.7		6.1	6.8		6.6	6.7	
48.0		6.6	6.3			6.5	6.2		4.7/47.6	6.4	6.0/48.5	5.8	6.3	
50.0		6.3	5.9			6.2	5.8			6.1	5.7	4.7	6.0	5.6/50.2
52.0		6.2/51.2	5.6			5.9	5.5			5.8	5.4	4.1/50.5	5.7	5.3
54.0			5.4			5.6	5.3			5.5	5.2		5.4	5.0
56.0			5.1			5.6/54.1	5.0			5.2	4.9		5.1	4.7
58.0			4.8	3.4/58.8			4.7			5.0/57.1	4.6		4.9	4.4
60.0			4.6	3.3			4.5	2.9/60.9			4.4		4.6/60.0	4.2
62.0			4.5/60.4	3.1			4.3	2.8			4.2			3.9
64.0				2.9			4.1/63.3	2.6			4.0			3.7
66.0				2.7				2.4			3.8			3.5
68.0				2.5				2.2/68.0			3.7/66.3			3.3
70.0				2.4/68.9										3.3/69.2

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Rated loads in metric tons for 360° working area (Tower length: 58.0 m)

Unit: metric ton
Crawlers fully extended

Working radius (m)	58.0 m (190 ft) Tower															
	27.4m (90') Jib				30.5 m (100') Jib				33.5 m (110') Jib				36.6 m (120') Jib			
	Tower angle				Tower angle				Tower angle				Tower angle			
	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°	90°	80°	70°	60°
	25.0/10.7															
11.0	25.0				24.4/11.5											
12.0	25.0				24.2				22.7/12.3							
13.0	25.0				24.0				22.5				21.0/13.1			
14.0	25.0				23.8				22.3				20.8			
15.0	24.8				23.6				22.1				20.6			
16.0	24.6				23.4				21.9				20.4			
18.0	24.2				23.0				21.5				20.0			
20.0	23.8				22.6				21.1				19.6			
22.0	23.1				22.2				20.7				19.2			
24.0	19.9	15.3/25.2			20.3				20.3				18.8			
26.0	17.1	14.8			17.7	14.4/26.5			18.0	13.3/27.8			18.3			
28.0	14.1	13.4			15.5	13.3			15.9	13.2			16.2	12.5/29.1		
30.0	10.2/29.9	12.3			13.4	12.2			14.0	12.1			14.4	12.0		
32.0		11.4			10.5	11.3			12.3	11.2			12.8	11.1		
34.0		10.6			8.9/32.9	10.5			10.3	10.4			11.4	10.3		
36.0		9.9				9.8			7.8/35.8	9.7			10.0	9.6		
38.0		9.3	9.0/39.0			9.2				9.1			8.0	9.0		
40.0		8.7/40.0	8.8			8.7	8.4/40.8			8.6			6.9/38.8	8.5		
42.0			8.3			8.2	8.1			8.1	7.8/42.5			8.0		
44.0			7.8			8.0/42.9	7.6			7.6	7.4			7.5	7.1/44.3	
46.0			7.4				7.2			7.1/45.8	7.0			7.1	6.8	
48.0			7.0				6.8				6.6			6.7	6.4	
50.0			6.7/49.6	4.6/51.7			6.4				6.2			6.6/48.8	6.0	
52.0				4.5			6.1	4.1/53.8			5.9				5.7	
54.0				4.3			6.0/52.6	4.0			5.7				5.5	
56.0				4.1				3.8			5.4/55.5	3.5/56.0			5.2	
58.0				3.9				3.6				3.3			4.9	3.1/58.1
60.0				3.8/58.6				3.4				3.1			4.9/58.5	2.9
62.0								3.2/61.6				2.9				2.7
64.0												2.7				2.5
66.0												2.6/64.5				2.3
68.0																2.2/67.5

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

Working radius (m)	58.0 m (190 ft) Tower											
	39.6m (130') Jib			42.7 m (140') Jib			45.7 m (150') Jib			48.8 m (160') Jib		
	Tower angle			Tower angle			Tower angle			Tower angle		
	90°	80°	70°	90°	80°	70°	90°	80°	70°	90°	80°	70°
13.0	19.3/13.9											
14.0	19.3			17.7/14.7								
15.0	19.1			17.5			15.6/15.5					
16.0	18.9			17.3			15.5			13.8/16.3		
18.0	18.5			16.9			15.1			13.4		
20.0	18.1			16.5			14.7			13.0		
22.0	17.7			16.1			14.3			12.6		
24.0	17.3			15.7			13.9			12.2		
26.0	16.9			15.3			13.5			11.8		
28.0	16.5			14.9			13.1			11.4		
30.0	14.6	11.8/30.4		14.5	11.4/31.7		12.7			11.0		
32.0	13.0	11.0		13.1	10.9		12.3	10.4/33.0		10.6		
34.0	11.7	10.2		11.8	10.1		11.9	10.0		10.2	9.8/34.3	
36.0	10.5	9.5		10.6	9.4		10.7	9.3		9.8	9.2	
38.0	9.4	8.9		9.5	8.8		9.7	8.7		9.4	8.6	
40.0	8.0	8.4		8.6	8.3		8.8	8.2		8.9	8.1	
42.0	6.1/41.7	7.9		7.6	7.8		7.9	7.7		8.0	7.6	
44.0		7.4		6.1	7.3		7.1	7.2		7.3	7.1	
46.0		7.0	6.6/46.0	5.3/44.6	6.9	6.3/47.8	6.1	6.8		6.6	6.7	
48.0		6.6	6.3		6.5	6.2	4.7/47.6	6.4	5.8/49.5	5.8	6.3	
50.0		6.3	5.9		6.2	5.8		6.1	5.7	4.7	6.0	5.4/51.3
52.0		6.1/51.7	5.6		5.9	5.5		5.8	5.4	4.1/50.5	5.7	5.3
54.0			5.4		5.6	5.3		5.5	5.2		5.4	5.0
56.0			5.1		5.5/54.7	5.0		5.2	4.9		5.1	4.7
58.0			4.8			4.7		5.0/57.6	4.6		4.9	4.4
60.0			4.6			4.5			4.4		4.6	4.2
62.0			4.5/61.4			4.3			4.2		4.6/60.6	3.9
64.0						4.1			4.0			3.7
66.0						4.0/64.3			3.8			3.5
68.0									3.7/67.3			3.3
70.0												3.1
72.0												3.1/70.2

Note: rating inside shown in ▭ are determined by the strength of the boom or other structural components.

KOBELCO
HYDRAULIC CRAWLER CRANE
7200

Main Specifications

		Crawler Crane			Luffing Tower
		Heavy-duty	Light-duty	Long	
Max. lifting capacity	ton x m	200 x 4.5	150 x 6.0	37.5 x 14.4	25 x 14.0
Boom (Tower) length	m	15.2 to 73.2	18.3 to 76.2	70.1 to 88.4	36.6 to 58.0
Tower jib length	m	–			27.4 to 48.8
Max. tower length + jib length					58.0 to 48.8
Line speed					
Main hoist	m/min	110 to 3 (first layer)			
Aux. hoist	m/min	110 to 3 (first layer)			
Tower jib hoist	m/min	–			30 to 3
Boom (Tower) hoist	m/min	52 to 2 (first layer)			
Swing speed	min^{-1} (rpm)	2.1 (2.1)			
Travel speed	km/h	1.1/0.7			
Operating weight	ton	197.0	162.0	169.0	175.0
Ground pressure	kPa (kg/cm^2)	110 (1.12)	90 (0.92)	94 (0.96)	97 (0.99)
Rated line pull	kN (kg)	132 (13,500) - Permissible/245 (25,000) - Allowable			–
Power plant					
Model		Mitsubishi 6D24-TCE1			
Rated power	kW/min^{-1} (PS/rpm)	220/2,000 (300/2,000)			

Note: Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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