

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.

KOBELCO CONSTRUCTION MACHINERY CO., LTD.

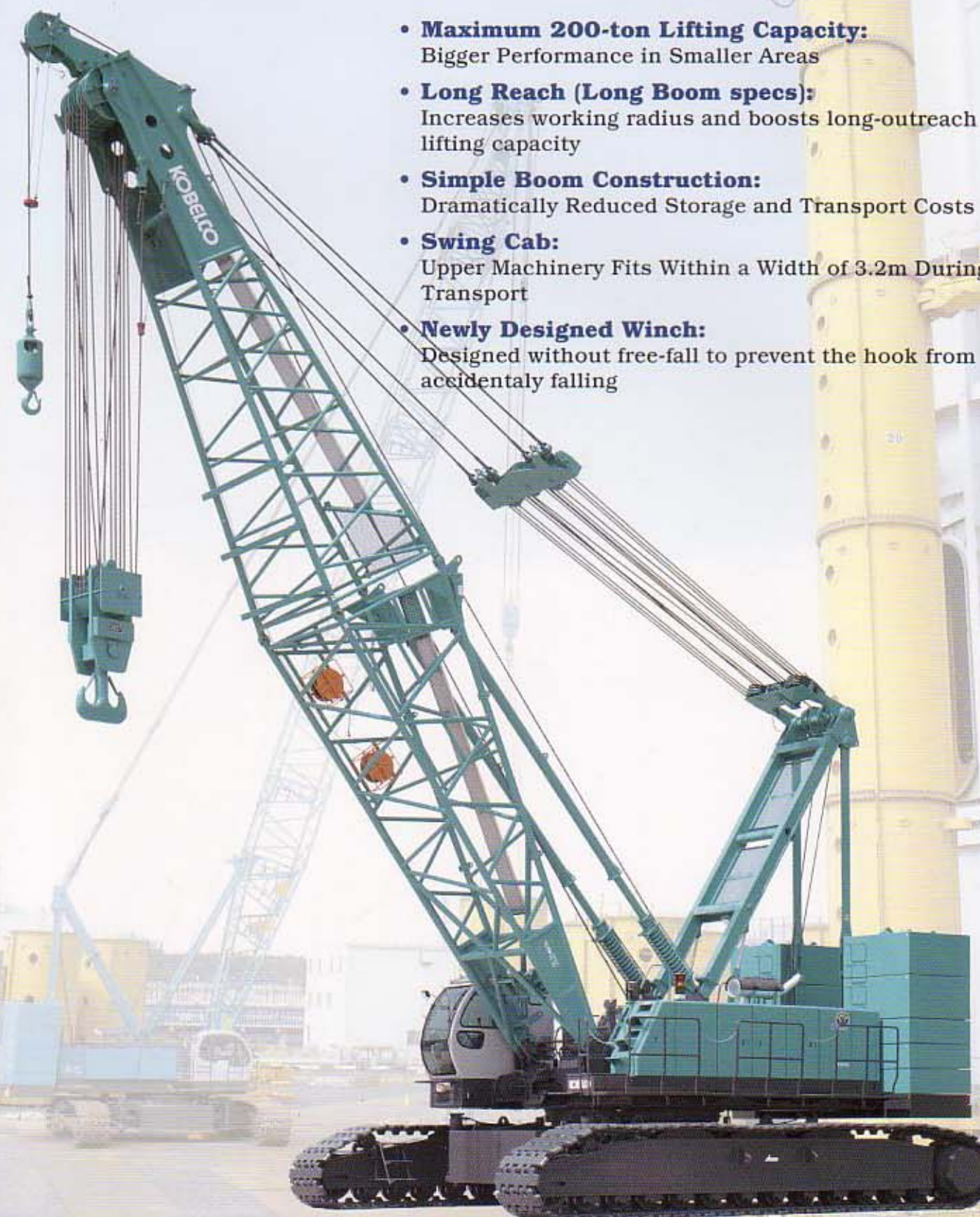
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HYDRAULIC CRAWLER CRANE

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 accidentally 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

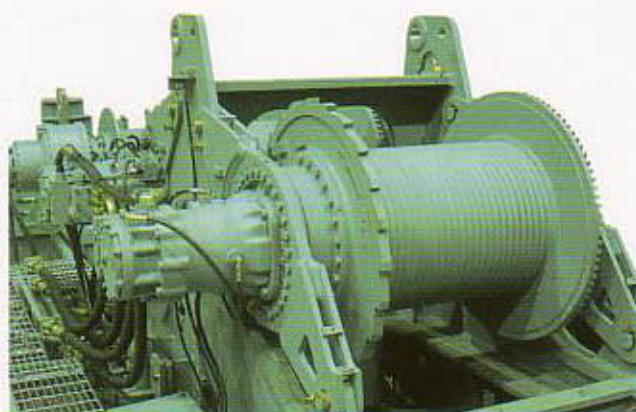
Max. Lifting Capacity:
25 metric ton x 14.0 m
Max. Tower Length + Jib Length
58.0 m + 48.8 m

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

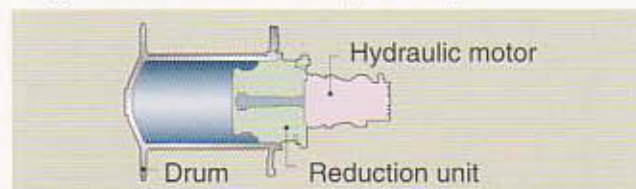
Features

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.

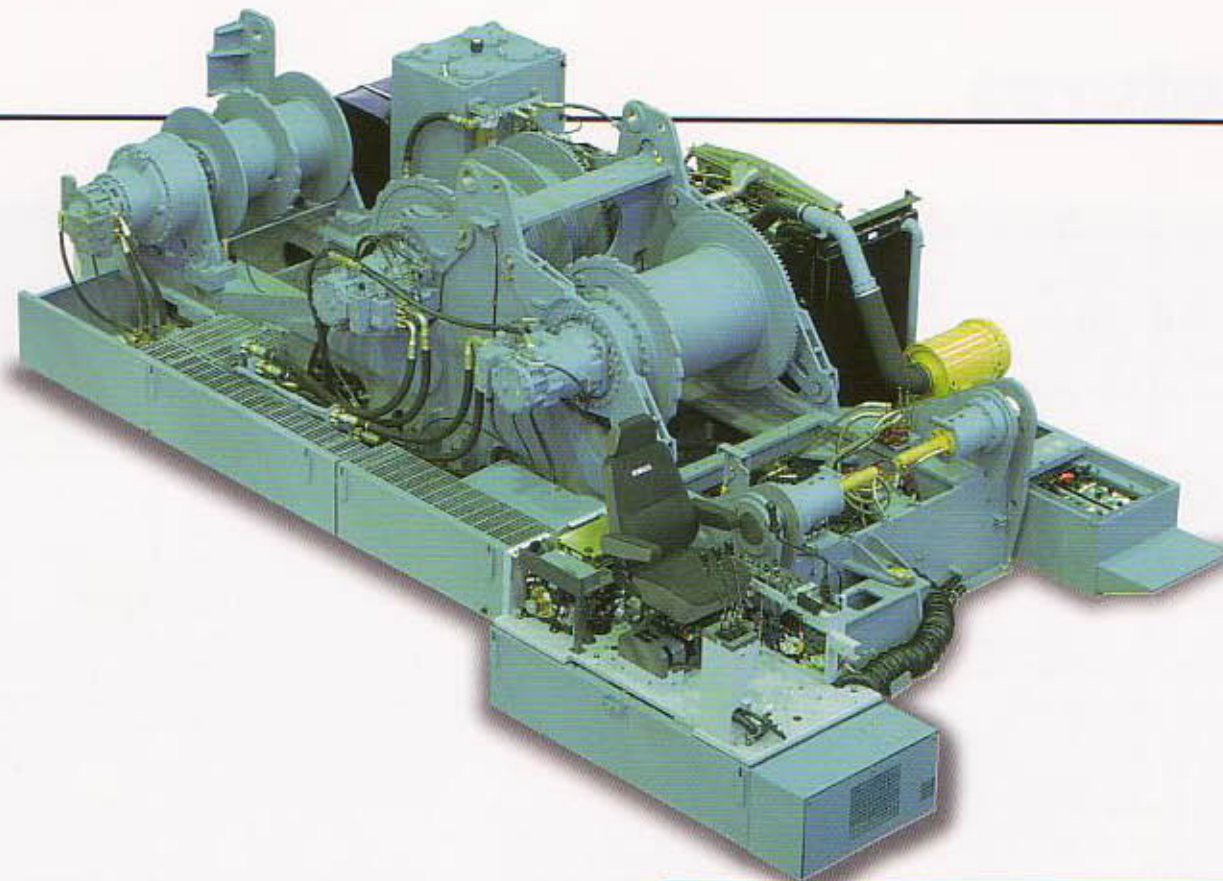
Operability

- **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

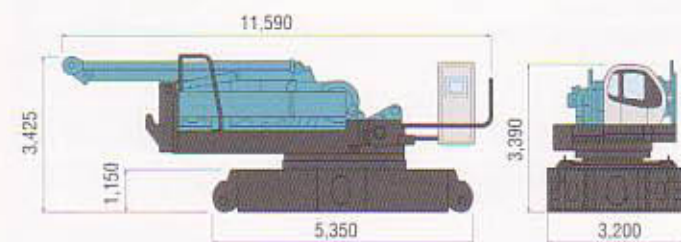
- **Multi-display monitor:** The ITCS (Intelligent Total Control System) system with liquid-crystal, multi-display monitor helps ensure safe operation and features accurate maintenance and monitoring functions.
- **Service diagnostic functions** (with liquid-crystal multi-display) continually monitor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



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 1,355 mm



Heavy-duty Upper Boom

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



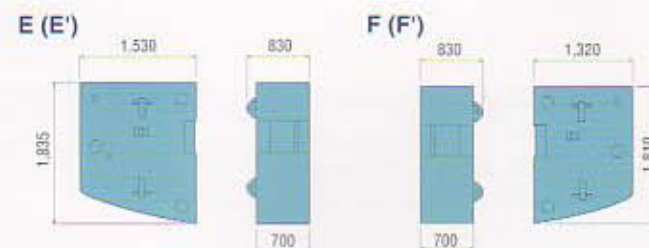
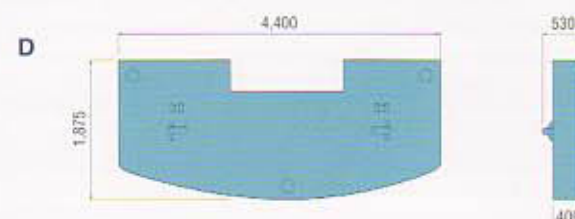
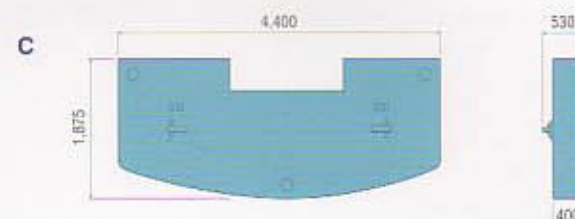
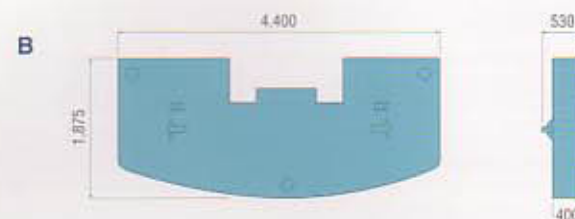
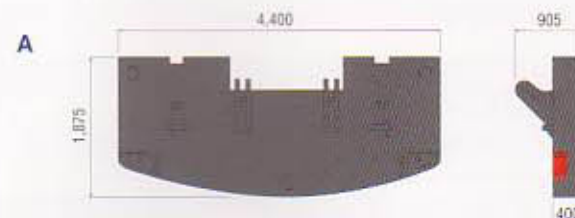
Lower Boom

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



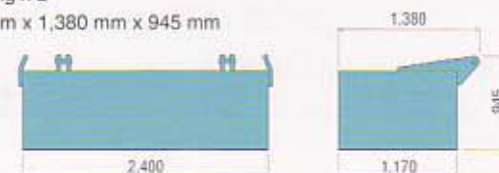
Counterweight

Total: 82,200 kg (13,500 kg 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



Carbody weight

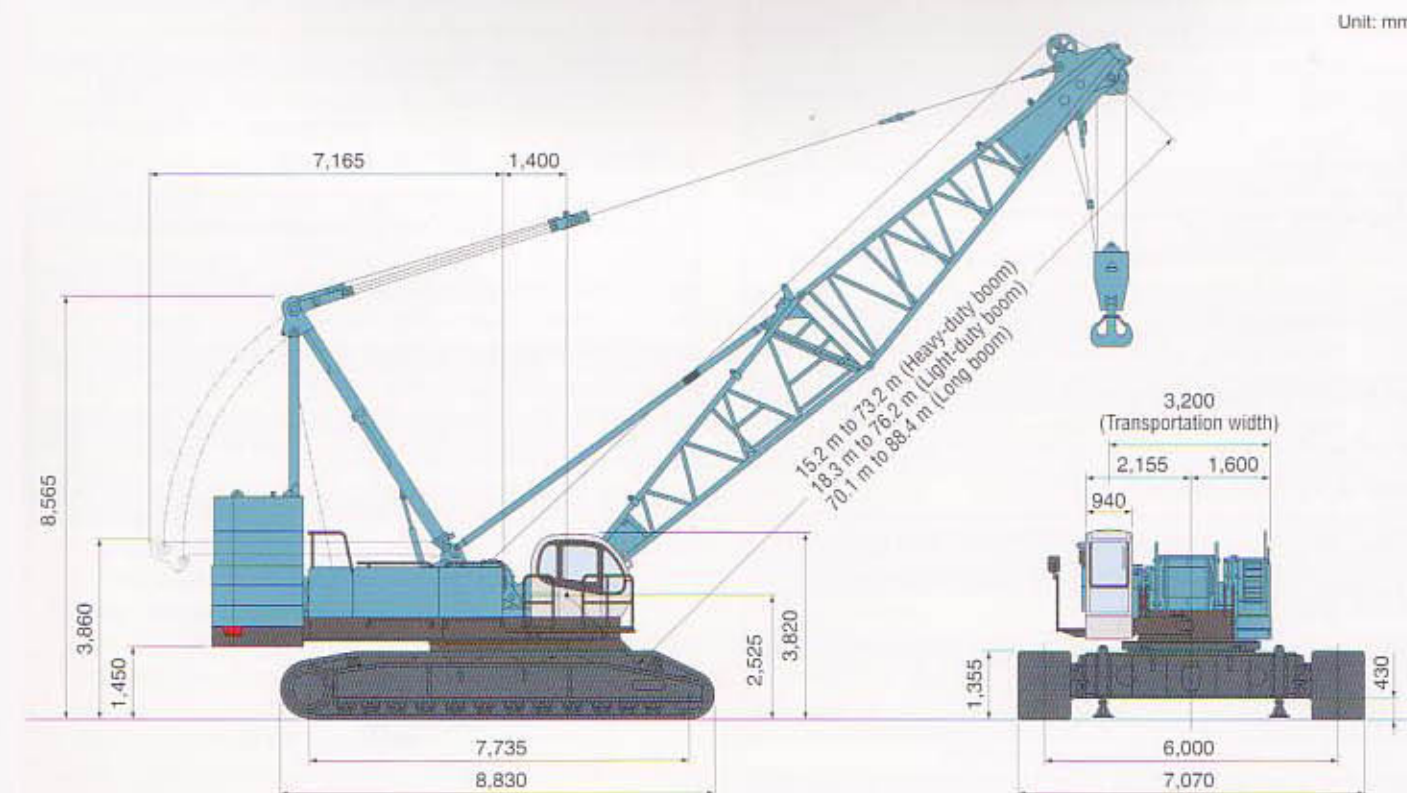
10,000 kg x 2
2,400 mm x 1,380 mm x 945 mm



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