HYDRAULIC CRAWLER CRANE

CK2500

WITH OPTIONAL JIB

Max. Lifting Capacity: 250 US Tons
Max. Boom Length: 300 ft
Max. Boom + Jib Length: 250 ft + 100 ft
The Kobelco CK2500 Crawler Crane is designed from the ground up for reliable operation, convenient maintenance and easy transport. Please consult your Kobelco distributor for additional information regarding specifications, operating parameters and maintenance requirements.

1. GENERAL DESCRIPTION

<table>
<thead>
<tr>
<th>Type</th>
<th>Crawler mounted, fully revolving</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum lifting capacity</td>
<td>250 ton / 500,000 lbs. (226,800 kg)</td>
</tr>
<tr>
<td></td>
<td>(at 14' (4.27 m) operating radius, with 50' (15.24 m) boom)</td>
</tr>
<tr>
<td>Maximum boom length</td>
<td>300' (91.44 m)</td>
</tr>
<tr>
<td>Maximum boom &amp; jib length</td>
<td>250' + 100' (76.20 m + 30.48 m)</td>
</tr>
<tr>
<td>Basic boom length</td>
<td>50' (15.24 m)</td>
</tr>
<tr>
<td>Working weight</td>
<td>Approx. 458,600 lbs (208,020 kg)</td>
</tr>
<tr>
<td></td>
<td>(Including Upper and Lower machine, counterweights, carbody weights, 50' boom, 250 ton Hook block)</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>Approx. 13.7 psi (95 kPa)</td>
</tr>
<tr>
<td>Gradeability (with basic boom)</td>
<td>30%</td>
</tr>
</tbody>
</table>

2. GENERAL DIMENSIONS

| Height to top of cab        | 12' 4" (3,770 mm) |
| Width of upper machine      | 12' 0" (3,658 mm) |
| with operator's cab         |                   |
| Radius of rear end          | 19' 8" (6,000 mm) |
| (counterweight)             |                   |
| Counterweight ground clearance | 4' 9" (1,450 mm) |
| Center of rotation          |                   |
| to boom foot pin            | 4' 7" (1,400 mm)  |
| Height from ground          |                   |
| to boom foot pin            | 8' 3" (2,523 mm)  |
| Height over gantry (raised) | 22' 2" (6,750 mm) |
| Overall length of crawler   | 29' 0" (8,830 mm) |
| Center to center of tumbler  | 25' 5" (7,735 mm) |
| Overall width of crawlers   | 23' 8" (7,220 mm) |
| Shoe width                  | 48" (1,220 mm)    |
| Ground clearance of carbody  | 17" (430 mm)      |

3. WORKING SPEED

| Hoist line speed (front and rear drum) | 360' / min (110 m / min) |
| Lowering line speed (front and rear drum) | 360' / min (110 m / min) |
| Boom hoist line speed                  | 170' / min (52 m / min)  |
| Boom lowering line speed                | 170' / min (52 m / min)  |

| Swing speed | 2.1 rpm (2.1 min⁻¹) |
| Travel speed | 0.69–0.44 miles (1.1 / 0.7 km / h) |
| Line speeds based on single line, no loads and first layer of rope drum. |

4. UPPER MACHINERY

4.1 Power plant

| Diesel engine, make and model | Mitsubishi 6D24-TLA2F |
| No. of cylinders              | 6                      |
| Bore X stroke                 | 5.125" X 6.125" (130 mm X 156 mm) |
| Cycles                        | 4                      |
| Total displacement            | 729 in³ (11.945 liters) |
| Rated output (SAE gross)      | 316 HP @ 2,000 rpm     |
|                              | (235 kW / 2,000 min⁻¹) |
| Maximum torque                | 811 lbs•ft / 1,400 rpm |
|                              | (126 kgf-m / 1,400 rpm) |
| Starter                       | 24 V / 5.5 kW          |
| Alternator                    | 24 V / 80AMP           |
| Batteries                     | Two 12 volt, 150 ampere-hour capacity series connected |
| Radiator                      | Corrugated type core, thermostatically controlled |
| Throttle                      | Twist grip type hand throttle, electrically actuated |
| Air cleaner                   | Dry type with replaceable paper element |
| Fuel Tank                     | 105 US gal (400 liters) capacity |
| Lube oil filter               | Full flow and by-pass type with replaceable paper element |
| Fuel filter                   | Heavy duty with replaceable paper element |

4.2 Hydraulic pumps

All driven from heavy duty pump drive.

| Hoist and propel              | 2 Piston pumps |
| Boom                           | 1 Piston pump  |
| Swing                          | 1 Piston pump  |
| Control system and auxiliary   | 2 Gear pumps   |

4.3 Counterweight

| Upper weight                  | 177,700 lbs (80,600 kg) |
| Carbody weight                | 44,100 lbs (20,000 kg)  |

4.4 Gantry

This high folding type gantry is fitted with a sheave frame for boom hoist reeving. Hydraulic lift is standard. It provides full up, full down positions with linkage.

4.5 Operator’s Cab

Totally enclosed from weather, this full-vision cab has safety glass all around with a sliding front window. The adjustable, high-backed seat with armrest is standard, allowing operators to customize the position. Auxiliary controls and instruments are on a side mounted console. A signal horn, air conditioner and cigarette lighter are all standard features.
4.6 Controls
At the operator's right are console-mounted adjustable, short levers for the front and rear drum controls and the boom hoist control. Beside the operator's seat on the right are two short levers for propel control. At the operator's left are the console mounted swing lever, knobs for the front and rear drum, the boom drum pawls, engine start/stop key, individual speed shifts for the front and rear drum, boom drum, swing and propel, and the swing mode switch. A swing brake switch and signal horn button are on the swing lever.

4.7 Electrical System
All wiring is coded for easy servicing with individual, fused branch circuits.

4.8 Hydraulic System
Maximum pressure rating: 4,480 psi (315 kg/cm²)
Cooling: Oil-to-air heat exchanger
Filtration: Full-flow filters with replaceable paper elements
Reservoir capacity: 137.4 US gal (520 liters)

4.9 Boom Hoist System
Powered by a hydraulic motor through a planetary reducer.
Drum: Double drum
Grooved for 7/8" (22 mm) dia. wire rope
Brake: A spring-set, hydraulically-released, multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve. An external ratchet is fitted for locking the drums.

4.10 Front Drum
Powered by a hydraulic motor through a planetary reducer.
Drum: 24.3" (617 mm) P.C.D. X 32.8" (833.7 mm) Lg., grooved for 1" (25.4 mm) wire rope. Rope capacity is 1,575' (480 m) working, 1,969' (600 m) storage length.
Brake: A spring-set, hydraulically-released, multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. An external ratchet is fitted for locking the drums.

4.11 Rear Drum
Powered by a hydraulic motor through a planetary reducer.
Drum: 24.3" (617.4 mm) P.C.D. X 32.8" (833.7 mm) Lg. , grooved for 1" (25.4 mm) wire rope. Rope capacity is 1,263' (385 m) working, 1,969' (600 m) storage length.
Brake: A spring-set, hydraulically-released, multiple-disc brake is mounted on the hoist motor and operated through a counter-balance valve. An external ratchet is fitted for locking the drums.

4.12 Swing System
Swing function: Powered by dual hydraulic swing motors for a smooth transition of force to the swing gear and enhanced swing life.
Swing brake: A spring-set, hydraulically-released, multiple-disc brake is mounted on the swing motor.
Swing circle: A single-row ball bearing with an internal, integral swing gear.

5. LOWER MACHINERY

5.1 Carbody
The durable carbody features steel welded construction with axles.

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

5.3 Crawler Driver
The independent, hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gearbox. The hydraulic motor and gearbox are built into the crawler side frame within the shoe width.

5.4 Crawler Brakes
Spring-set, hydraulically-released, multiple disc-type parking brakes are built into each propel drive.

5.5 Steering Mechanism
The hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

5.6 Crawler Shoes
67 shoes, 48" (1220 mm) wide each crawler.

5.7 Track Rollers
The track rollers are sealed for maintenance-free operation.

6. CRANE ATTACHMENTS

6.1 Crane Boom
The welded lattice construction uses tubular, high-tension steel chords with pin connections between sections.

6.2 Boom Insert (Optional)
An optional boom insert is available to provide extension capabilities. It also has welded lattice construction with...
tubular, high-tension steel chords and pin connections.

10' (3.05 m)
20' (6.10 m)
40' (12.20 m)

### 6.3 Jib (Optional)
The optional jib employs welded lattice construction with tubular, high-tension steel chords and pin connections between sections.

**Extendible up to 100' (30.48 m)**

- **Basic jib length**: 40' (12.19 m)
- **Jib base section**: 15' (4.57 m)
- **Jib tip section**: 15' (4.57 m)
- **Jib insert**: 10' (3.05 m)
- **Jib boom inserts**: available for extension capabilities.

Jib boom inserts are available for extension capabilities. They also have welded lattice construction with tubular, high-tension steel chords and pin connections. Jibs are extendible on boom lengths of 90' (27.43 m) through 250' (76.20 m).

**Note:** The jib does not fit on booms exceeding 250' (76.20 m).

### 6.4 Auxiliary sheave... optional

### 6.5 Diameter of wire rope

<table>
<thead>
<tr>
<th></th>
<th>Diameter</th>
<th>Working Length</th>
<th>Breaking Strength</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hoist rope</td>
<td>1&quot; (25.4 mm)</td>
<td>1,575' (480)</td>
<td>103,500 (46,900)</td>
</tr>
<tr>
<td>Boom hoist rope</td>
<td>7/8&quot; (22 mm)</td>
<td>1,263' (385)</td>
<td>103,500 (46,900)</td>
</tr>
<tr>
<td>Boom suspension rope</td>
<td>1 5/16&quot; (34 mm)</td>
<td>1,148' (350)</td>
<td>88,330 (40,500)</td>
</tr>
<tr>
<td>Jib suspension rope</td>
<td>1 1/32&quot; (26 mm)</td>
<td>1,148' (350)</td>
<td>88,330 (40,500)</td>
</tr>
</tbody>
</table>

### 6.6 Line pull

<table>
<thead>
<tr>
<th></th>
<th>Rated line pull</th>
<th>*Maximum line pull</th>
</tr>
</thead>
<tbody>
<tr>
<td>Front Drum</td>
<td>29,500 lbs (13,380 kg)</td>
<td>55,000 lbs (24,950 kg)</td>
</tr>
<tr>
<td>Rear Drum</td>
<td>29,500 lbs (13,380 kg)</td>
<td>55,000 lbs (24,950 kg)</td>
</tr>
</tbody>
</table>

*Maximum line pull is not based to wire rope strength. See page 9 for rated single part line working loads.

### 6.7 Wire rope specifications

- **Use**: Front Drum, Rear Drum, Boom Hoist Drum, Luffing Jib Drum
- **Specs**: IWRC C/O 6 X Fi (25), IWRC C/O 6 X Fi (25), IWRC O/O 6 X WS (31), IWRC O/O 6 X WS (31)
- **Diameter (inch)**: 1" (25.4), 1" (25.4), 7/8" (22), 7/8" (22)
- **Working Length (feet)**: 1,575 (480), 1,263 (385), 1,148 (350), 870 (265)
- **Breaking Strength (lbs)**: 103,500 (46,900), 103,500 (46,900), 88,330 (40,500), 88,330 (40,500)

### 6.8 Boom hoist reeving:

- Twenty (20) parts of 7/8" (22 mm) dia. high strength wire rope.

### 6.9 Boom backstops:

- Required for all boom lengths.

### 7. AUXILIARY EQUIPMENT

#### 7.1 Lights

- 2 - Front flood lights
- 1 - Cab inside light

#### 7.2 Gauges and warning display

- 1 - Tachometer
- 1 - Hour meter
- 1 - Fuel gage
- 1 - Water temperature gage for engine

**Warning display:**
- Battery charge
- Engine oil pressure
- Air cleaner
- Engine oil filter
- Control main pressure
- Hydraulic oil temperature

### 8. SAFETY SERVICE

- Function lock lever
- Anti-two-block
- Boom over hoist limit switch
- Boom angle indicator
- Signal horn
- Boom hoist drum lock
- Front and rear hoist drum lock
- Swing lock
- Swing alarm (Buzzer and lamps)
- Boom backstops
- Over load protective device (Moment limiter) — optional

### 9. TRANS-LIFTER

The trans-lifter system allows quick and easy removal of the crawler side frames and trailer loading for transport. Four vertical cylinders lift the basic machine for self-loading onto a trailer. Four horizontal axle pin cylinders facilitate the removal and replacement of the side frames.

### 10. TOOLS AND ACCESSORIES

A complete set of standard tools and accessories is furnished.

### 11. MAST

Fitted with a point sheave, the newly designed mast enhances lifting capabilities and also handling of major components during self-erection. Raises and lowers by means of a hydraulic cylinder.
GENERAL DIMENSIONS

Unit: ft-in (mm)

UPPER MACHINERY LAYOUT

- Boom Winch
- Power Plant
- Swing Units
- Rear Winch
- Front Winch
JIB WORKING RANGES (Jib offset 30°)
**BOOM AND GUY WIRE ARRANGEMENT**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Dia in.(mm)</th>
<th>Length ft-in(m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Ø 1 15/16&quot; (34)</td>
<td>15' (4.390)</td>
</tr>
<tr>
<td>B</td>
<td>Ø 1 15/16&quot; (34)</td>
<td>10' (3.050)</td>
</tr>
<tr>
<td>C</td>
<td>Ø 1 15/16&quot; (34)</td>
<td>20' (6.100)</td>
</tr>
<tr>
<td>D</td>
<td>Ø 1 15/16&quot; (34)</td>
<td>40' (12.20)</td>
</tr>
</tbody>
</table>

For most efficient use of this machine, boom and guy line arrangement must be correctly observed as shown.

- **Location of jib backstay lug**
- Manufacturer's recommended boom arrangement makes shorter boom arrangements possible.

**JIB AND GUY WIRE ARRANGEMENT**

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Dia in.(mm)</th>
<th>Length ft-in(m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>E</td>
<td>Ø 1&quot; (26)</td>
<td>87' 2&quot; (26.58)</td>
</tr>
<tr>
<td>F</td>
<td>Ø 1&quot; (26)</td>
<td>38' 6&quot; (11.73)</td>
</tr>
<tr>
<td>G</td>
<td>Ø 1&quot; (26)</td>
<td>65' 11&quot; (20.08)</td>
</tr>
<tr>
<td>H</td>
<td>Ø 1&quot; (26)</td>
<td>4' 5&quot; (1.63)</td>
</tr>
</tbody>
</table>

**Arrangement of Guy Line (Boom Side)**

<table>
<thead>
<tr>
<th>Boom Arrangement</th>
<th>Offset Angle</th>
<th>(Tip + 40°) Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>10°</td>
<td>G</td>
</tr>
<tr>
<td></td>
<td>30°</td>
<td>G + H</td>
</tr>
</tbody>
</table>
1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radii and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).

2. Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk* in the charts.

3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements. Boom backstops are required for all boom lengths. Gantry must be fully raised position for all operations. The crane must be leveled to within 1% on a firm supporting surface.

4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.

5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.

6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.

7. To prevent the boom from leaning toward backward, the own weight of hook block attached to boom point must be equal to or more than that of shown below.

<table>
<thead>
<tr>
<th>Boom length (ft)</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Own weight of hook block (lbs)</td>
<td>6,000</td>
<td>3,800</td>
<td>2,500</td>
<td>1,900</td>
</tr>
</tbody>
</table>

8. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

<table>
<thead>
<tr>
<th>Jib length (ft)</th>
<th>Aux</th>
<th>40</th>
<th>60</th>
<th>80</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deductions (lbs)</td>
<td>800</td>
<td>7,055</td>
<td>8,010</td>
<td>8,965</td>
<td>9,920</td>
</tr>
</tbody>
</table>

9. The total load that can be lifted over a jib is limited by rated jib loads.

10. Boom lengths for jib mounting are 90 ft (27.4 m) to 250 ft (76.2 m)

11. The total load that can be lifted over an auxiliary sheave is the value for 800 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 29,500 lbs.

12. Boom lengths that can attach auxiliary sheave are from 50 ft (15.2 m) to 300 ft (91.4 m).

13. The boom should be erected over the front of the crawlers, not laterally. When erecting and lowering the boom at length of 290 ft (88.4 m) or over, the blocks for erection must be placed at the end of the crawlers.

14. Least stable position is over the side.

15. Maximum hoist load for number of reeving parts of line for hoist rope.

**Main boom hoist loads**

<table>
<thead>
<tr>
<th>Parts of lines</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum loads (lbs)</td>
<td>29,500</td>
<td>59,000</td>
<td>88,500</td>
<td>118,000</td>
<td>147,500</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parts of lines</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum loads (lbs)</td>
<td>177,000</td>
<td>206,500</td>
<td>236,000</td>
<td>265,500</td>
<td>295,000</td>
</tr>
</tbody>
</table>

16. Lifting capacities listed apply only to the machine as originally manufactured and designed by KOBELECO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.

17. Designed and rated to comply with ANSI Code B30.5.

*Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.*
## CK2500 Main Boom Loads in Pounds

Refer to notes page 9.

9 Counterweights + 2 Low Weights

<table>
<thead>
<tr>
<th>Radius Angle</th>
<th>Rated Load</th>
<th>Load Boom 360°</th>
<th>Load Boom 360°</th>
<th>Load Boom 360°</th>
<th>Load Boom 360°</th>
</tr>
</thead>
<tbody>
<tr>
<td>(ft.) (deg.)</td>
<td>(lbs.)</td>
<td>(ft.) (deg.)</td>
<td>(lbs.)</td>
<td>(ft.) (deg.)</td>
<td>(lbs.)</td>
</tr>
<tr>
<td>14.0</td>
<td>80.8</td>
<td>500000*</td>
<td>16.0</td>
<td>80.4</td>
<td>441900*</td>
</tr>
<tr>
<td>15.0</td>
<td>79.6</td>
<td>499200*</td>
<td>17.0</td>
<td>79.4</td>
<td>438000*</td>
</tr>
<tr>
<td>16.0</td>
<td>78.4</td>
<td>442400*</td>
<td>18.0</td>
<td>78.4</td>
<td>396400*</td>
</tr>
<tr>
<td>17.0</td>
<td>77.3</td>
<td>418500*</td>
<td>19.0</td>
<td>77.5</td>
<td>377000*</td>
</tr>
<tr>
<td>18.0</td>
<td>76.1</td>
<td>396900*</td>
<td>20.0</td>
<td>76.5</td>
<td>359200*</td>
</tr>
<tr>
<td>19.0</td>
<td>74.9</td>
<td>377500*</td>
<td>21.0</td>
<td>74.5</td>
<td>328200*</td>
</tr>
<tr>
<td>20.0</td>
<td>73.7</td>
<td>359700*</td>
<td>22.0</td>
<td>72.5</td>
<td>302200*</td>
</tr>
<tr>
<td>22.0</td>
<td>71.3</td>
<td>328700*</td>
<td>24.0</td>
<td>68.4</td>
<td>260400*</td>
</tr>
<tr>
<td>26.0</td>
<td>66.3</td>
<td>280400*</td>
<td>28.0</td>
<td>64.2</td>
<td>228800*</td>
</tr>
<tr>
<td>30.0</td>
<td>61.1</td>
<td>241100*</td>
<td>32.0</td>
<td>60.8</td>
<td>173000*</td>
</tr>
<tr>
<td>32.0</td>
<td>58.4</td>
<td>229300*</td>
<td>36.0</td>
<td>57.5</td>
<td>186000*</td>
</tr>
<tr>
<td>34.0</td>
<td>55.6</td>
<td>216100*</td>
<td>40.0</td>
<td>55.2</td>
<td>173000*</td>
</tr>
<tr>
<td>36.0</td>
<td>52.7</td>
<td>201000*</td>
<td>40.0</td>
<td>52.8</td>
<td>161500*</td>
</tr>
<tr>
<td>38.0</td>
<td>49.7</td>
<td>185800</td>
<td>44.0</td>
<td>47.7</td>
<td>151400*</td>
</tr>
<tr>
<td>40.0</td>
<td>46.6</td>
<td>172800</td>
<td>48.0</td>
<td>45.0</td>
<td>142400*</td>
</tr>
<tr>
<td>42.0</td>
<td>43.9</td>
<td>161300</td>
<td>52.0</td>
<td>43.4</td>
<td>134200*</td>
</tr>
<tr>
<td>44.0</td>
<td>39.6</td>
<td>151200</td>
<td>56.0</td>
<td>41.5</td>
<td>111500*</td>
</tr>
<tr>
<td>46.0</td>
<td>35.7</td>
<td>142100</td>
<td>60.0</td>
<td>39.7</td>
<td>99400</td>
</tr>
<tr>
<td>48.0</td>
<td>31.4</td>
<td>134200</td>
<td>65.0</td>
<td>37.3</td>
<td>89500*</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Radius Angle</th>
<th>Rated Load</th>
<th>Load Boom 360°</th>
<th>Load Boom 360°</th>
<th>Load Boom 360°</th>
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**Refer to notes page 9.**
Table of CK2500 Main Boom Loads in Pounds

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### CK2500 Jib Rating Loads in Pounds

Refer to notes page 9.

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### IK2500 Jib Rating Loads in Pounds

Refer to notes page 9.

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* Refer to notes page 9.
### 230' Boom

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*Refer to notes page 9.*
## CK2500 Jib Rating Loads in Pounds

Refer to notes page 9.

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<td>5800*</td>
</tr>
<tr>
<td>260</td>
<td>30.1</td>
<td>4500*</td>
</tr>
<tr>
<td>270</td>
<td>33.4</td>
<td>4600*</td>
</tr>
</tbody>
</table>

### 250' Boom

<table>
<thead>
<tr>
<th>Jib Length</th>
<th>80' Jib</th>
<th>100' Jib</th>
</tr>
</thead>
<tbody>
<tr>
<td>Offset Angle</td>
<td>10°</td>
<td>30°</td>
</tr>
<tr>
<td>Radius (ft.)</td>
<td>Load Angle Load (deg.)</td>
<td>Rated Load (lbs.)</td>
</tr>
<tr>
<td>75</td>
<td>80.2</td>
<td>23500*</td>
</tr>
<tr>
<td>80</td>
<td>79.3</td>
<td>23300*</td>
</tr>
<tr>
<td>85</td>
<td>78.4</td>
<td>23100*</td>
</tr>
<tr>
<td>90</td>
<td>77.5</td>
<td>22900*</td>
</tr>
<tr>
<td>100</td>
<td>75.7</td>
<td>22600*</td>
</tr>
<tr>
<td>110</td>
<td>73.9</td>
<td>22100*</td>
</tr>
<tr>
<td>120</td>
<td>72.0</td>
<td>21300*</td>
</tr>
<tr>
<td>130</td>
<td>69.4</td>
<td>19400*</td>
</tr>
<tr>
<td>140</td>
<td>66.4</td>
<td>18800*</td>
</tr>
<tr>
<td>150</td>
<td>64.4</td>
<td>18000*</td>
</tr>
<tr>
<td>160</td>
<td>62.5</td>
<td>17300*</td>
</tr>
<tr>
<td>170</td>
<td>60.4</td>
<td>16600*</td>
</tr>
<tr>
<td>180</td>
<td>58.4</td>
<td>15900*</td>
</tr>
<tr>
<td>190</td>
<td>56.2</td>
<td>15200*</td>
</tr>
<tr>
<td>200</td>
<td>54.1</td>
<td>14600*</td>
</tr>
<tr>
<td>210</td>
<td>51.9</td>
<td>14000*</td>
</tr>
<tr>
<td>220</td>
<td>49.5</td>
<td>13400*</td>
</tr>
<tr>
<td>230</td>
<td>47.1</td>
<td>12800*</td>
</tr>
<tr>
<td>240</td>
<td>44.6</td>
<td>12200*</td>
</tr>
<tr>
<td>250</td>
<td>41.9</td>
<td>11600*</td>
</tr>
<tr>
<td>260</td>
<td>39.1</td>
<td>11000*</td>
</tr>
<tr>
<td>270</td>
<td>36.1</td>
<td>10400*</td>
</tr>
</tbody>
</table>

* Refer to notes page 9.
## SPECIFICATIONS OF PARTS AND ATTACHMENTS

Dimensions: ft-in (mm) – Weight: lbs (kg)

<table>
<thead>
<tr>
<th>Base Machine</th>
<th>Weight: 99,005 lbs (44,900 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Crawler</th>
<th>Weight: 51,817 lbs (23,500 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Translifter</th>
<th>Weight: 860 lbs (390 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Gantry</th>
<th>Weight: 6,440 lbs (2,920 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Mast</th>
<th>Weight: 6,550 lbs (2,970 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Counterweight (A)</th>
<th>Weight: 27,585 lbs (12,510 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Counterweight (B)</th>
<th>Weight: 22,050 lbs (10,000 kg) - 1 piece</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Counterweight (C)</th>
<th>Weight: 22,050 lbs (10,000 kg) - 1 piece</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Counterweight (D)</th>
<th>Weight: 8,270 lbs (3,750 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Counterweight (E)</th>
<th>Weight: 8,270 lbs (3,750 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Carbody Weight</th>
<th>Weight: 22,050 lbs (10,000 kg) - 1 piece</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Boom Base</th>
<th>Weight: 7,186 lbs (3,250 kg)</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Boom Tip</th>
<th>Weight: 6,813 lbs (3,090 kg)</th>
</tr>
</thead>
</table>
## SPECIFICATIONS OF PARTS AND ATTACHMENTS

**Dimensions:** ft-in (mm) – **Weight:** lbs (kg)

### Dimensions and Weights

<table>
<thead>
<tr>
<th>Part</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 ft (3.0 m) Insert Boom</td>
<td>7' 7&quot; x 10' 5&quot; (2,312 x 3,175)</td>
<td>1,632 lbs (740 kg)</td>
</tr>
<tr>
<td>20 ft (6.1 m) Insert Boom</td>
<td>7' 7&quot; x 20' 5&quot; (2,312 x 6,223)</td>
<td>2,743 lbs (1,240 kg)</td>
</tr>
<tr>
<td>40 ft (8.1 m) Insert Boom</td>
<td>7' 7&quot; x 40' 5&quot; (2,312 x 12,320)</td>
<td>4,763 lbs (2,160 kg)</td>
</tr>
<tr>
<td>Boom Backstop</td>
<td>23' 1.7&quot; x 2' 8.9&quot; (7,055 x 835)</td>
<td>1,500 lbs (680 kg)</td>
</tr>
<tr>
<td>10 ft (3.0 m) Insert Jib</td>
<td>3' 4.2&quot; x 4' 1&quot; (1,080 x 1,225)</td>
<td>243 lbs (110 kg)</td>
</tr>
<tr>
<td>20 ft (6.1 m) Insert Jib</td>
<td>3' 4.2&quot; x 4' 4.2&quot; (1,080 x 1,350)</td>
<td>420 lbs (190 kg)</td>
</tr>
</tbody>
</table>

### Aux. Sheave

- **Weight:** 610 lbs (276 kg)
- **Dimensions:** 16' 10" x 3' 0.6" (5,130 x 930)

### Jib Strut

- **Weight:** 662 lbs (300 kg)
- **Dimensions:** 3' 4.9" x 2' 4.2" (1,040 x 628)

### Jib Base (For Crane)

- **Weight:** 463 lbs (210 kg)
- **Dimensions:** 3' 4.6" x 2' 9" (1,090 x 863)

### Jib Tip (For Crane)

- **Weight:** 697 lbs (315 kg)
- **Dimensions:** 3' 3.7" x 1' 10.1" (1,010 x 560)

### Lower Spreader

- **Weight:** 1,545 lbs (700 kg)
- **Dimensions:** 4' 3.4" x 1' 7.7" (1,350 x 500)

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Your competitive edge.
Note: Due to our policy of continual product improvement, all designs and specifications are subject to change without advance notice. Pictures inside this publication may show machines with optional equipment. This manual and the specifications herein were prepared for the market served by Kobelco America Inc. including North America and Latin America. Kobelco product specifications in other world markets may differ.