# HYDRAULIC CRAWLER CRANE

## CKE2000

- **Max. Lifting Capacity:** 200 t
- **Max. Boom Length:** 88.4 m
- **Max. Fixed Jib Combination:** 73.2 m + 30.5 m
- **Max. Luffing Jib Combination:** 58.0 m + 48.8 m

## Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Heavy-duty Boom</strong></td>
<td>Max. Lifting Capacity: 200 t/5.0 m (Heavy Boom)</td>
</tr>
<tr>
<td></td>
<td>Max. Length: 73.2 m</td>
</tr>
<tr>
<td><strong>Standard Crane Boom</strong></td>
<td>Max. Lifting Capacity: 150 t/6.5 m</td>
</tr>
<tr>
<td></td>
<td>Max. Length: 76.2 m</td>
</tr>
<tr>
<td><strong>Fixed Jib</strong></td>
<td>Max. Lifting Capacity: 20.5 t / 13.0 m</td>
</tr>
<tr>
<td></td>
<td>Max. Combination: 73.2 m + 30.5 m</td>
</tr>
<tr>
<td><strong>Long Boom</strong></td>
<td>Max. Length: 88.4 m</td>
</tr>
<tr>
<td><strong>Luffing Jib</strong></td>
<td>Max. Combination: 58.0 m + 48.8 m</td>
</tr>
<tr>
<td><strong>Main &amp; Aux. Winch</strong></td>
<td>Max. Line Speed: 110 m/min (1st layer)</td>
</tr>
<tr>
<td></td>
<td>Rated Line Pull: 132 kN (13.5 tf)</td>
</tr>
<tr>
<td></td>
<td>Max. Line Pull: 245 kN (25 tf)</td>
</tr>
<tr>
<td></td>
<td>Wire Rope: 28 mm</td>
</tr>
<tr>
<td></td>
<td>Wire Rope Length: 370 m (Main)/210 m (Aux.)</td>
</tr>
<tr>
<td><strong>Brake Type</strong></td>
<td>Wet-type multiple disc brake</td>
</tr>
<tr>
<td><strong>Free-Fall</strong></td>
<td>Option</td>
</tr>
</tbody>
</table>

### Working Speed
- **Swing Speed:** 2.1 min⁻¹ (rpm)
- **Travel Speed:** 1.1/0.7 km/h

### Power Plant
- **Model:** Mitsubishi 6D24-TLU2D
- **Engine Output:** 235 kW/2,000 min⁻¹ (rpm)
- **Fuel Tank Capacity:** 400 liters

### Hydraulic System
- **Main Pumps:** 4 variable displacement
- **Max. Pressure:** 30.9 MPa (315 kgf/cm²)
- **Hydraulic Tank Capacity:** 550 liters

### Weight
- **Operating Weight:** Approx. 197.0 t
- **Counterweight:** 82.2 t (upper), 20.0 t (lower)
- **Transport Weight:** 35.9 t (Main machine and carbody)
- **Ground Pressure:** 110 kPa (1.12 kgf/cm²)

### General Dimensions

- **Unit:** mm

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**KOBELCO CRANES CO., LTD.**
### MAIN BOOM LIFTING CAPACITY

**Rated loads in metric tons for 360° working area (Heavy-duty boom, Counterweight: 82.2 t, Carbbody weight: 20.1 t)**

| Boom length (m) | 18.3 (60) | 21.3 (70) | 24.4 (80) | 27.4 (90) | 30.5 (100) | 33.5 (110) | 36.6 (120) | 39.6 (130) | 42.7 (140) | 45.7 (150) | 48.8 (160) | 51.8 (170) | 54.9 (180) | 57.9 (190) | 61.0 (200) | 64.0 (210) | 67.1 (220) | 70.1 (230) | 73.2 (240) |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| 5.0             | 15.0      | 18.0      | 22.0      | 26.0      | 30.0      | 34.0      | 39.0      | 44.0      | 49.0      | 54.0      | 59.0      | 64.0      | 69.0      | 74.0      | 79.0      | 84.0      | 89.0      | 94.0      | 105.0     |
| 5.5             | 16.0      | 19.0      | 23.0      | 27.0      | 31.0      | 35.0      | 40.0      | 45.0      | 50.0      | 55.0      | 60.0      | 65.0      | 70.0      | 75.0      | 80.0      | 85.0      | 90.0      | 95.0      | 105.0     |
| 6.0             | 17.0      | 20.0      | 24.0      | 28.0      | 32.0      | 36.0      | 41.0      | 46.0      | 51.0      | 56.0      | 61.0      | 66.0      | 71.0      | 76.0      | 81.0      | 86.0      | 91.0      | 96.0      | 105.0     |
| 6.5             | 18.0      | 21.0      | 25.0      | 29.0      | 33.0      | 37.0      | 42.0      | 47.0      | 52.0      | 57.0      | 62.0      | 67.0      | 72.0      | 77.0      | 82.0      | 87.0      | 92.0      | 97.0      | 105.0     |
| 7.0             | 19.0      | 22.0      | 26.0      | 30.0      | 34.0      | 38.0      | 43.0      | 48.0      | 53.0      | 58.0      | 63.0      | 68.0      | 73.0      | 78.0      | 83.0      | 88.0      | 93.0      | 98.0      | 105.0     |
| 7.5             | 20.0      | 23.0      | 27.0      | 31.0      | 35.0      | 39.0      | 44.0      | 49.0      | 54.0      | 59.0      | 64.0      | 69.0      | 74.0      | 79.0      | 84.0      | 89.0      | 94.0      | 99.0      | 105.0     |
| 8.0             | 21.0      | 24.0      | 28.0      | 32.0      | 36.0      | 40.0      | 45.0      | 50.0      | 55.0      | 60.0      | 65.0      | 70.0      | 75.0      | 80.0      | 85.0      | 90.0      | 95.0      | 105.0     |
| 8.5             | 22.0      | 25.0      | 29.0      | 33.0      | 37.0      | 41.0      | 46.0      | 51.0      | 56.0      | 61.0      | 66.0      | 71.0      | 76.0      | 81.0      | 86.0      | 91.0      | 96.0      | 105.0     |
| 9.0             | 23.0      | 26.0      | 30.0      | 34.0      | 38.0      | 42.0      | 47.0      | 52.0      | 57.0      | 62.0      | 67.0      | 72.0      | 77.0      | 82.0      | 87.0      | 92.0      | 97.0      | 105.0     |
| 9.5             | 24.0      | 27.0      | 31.0      | 35.0      | 39.0      | 43.0      | 48.0      | 53.0      | 58.0      | 63.0      | 68.0      | 73.0      | 78.0      | 83.0      | 88.0      | 93.0      | 98.0      | 105.0     |
| 10.0            | 25.0      | 28.0      | 32.0      | 36.0      | 40.0      | 44.0      | 49.0      | 54.0      | 59.0      | 64.0      | 69.0      | 74.0      | 79.0      | 84.0      | 89.0      | 94.0      | 99.0      | 105.0     |

**Crawlers fully extended**

### FIXED JIB LIFTING CAPACITY

**(standard crane boom, counterweight: 82.2 t, carbbody weight: 20.1 t, without main hook)**

#### Jib Offset Angle: 10°

<table>
<thead>
<tr>
<th>Boom length</th>
<th>39.6 m</th>
<th>54.9 m</th>
<th>73.2 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.0 m</td>
<td>39.6 m</td>
<td>54.9 m</td>
<td>73.2 m</td>
</tr>
<tr>
<td>20.0 m</td>
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<td>73.2 m</td>
</tr>
<tr>
<td>26.0 m</td>
<td>26.0 m</td>
<td>54.9 m</td>
<td>73.2 m</td>
</tr>
<tr>
<td>32.0 m</td>
<td>32.0 m</td>
<td>54.9 m</td>
<td>73.2 m</td>
</tr>
<tr>
<td>38.0 m</td>
<td>38.0 m</td>
<td>54.9 m</td>
<td>73.2 m</td>
</tr>
</tbody>
</table>

#### Jib Offset Angle: 30°

<table>
<thead>
<tr>
<th>Boom length</th>
<th>39.6 m</th>
<th>54.9 m</th>
<th>73.2 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.0 m</td>
<td>39.6 m</td>
<td>54.9 m</td>
<td>73.2 m</td>
</tr>
<tr>
<td>24.0 m</td>
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<td>54.9 m</td>
<td>73.2 m</td>
</tr>
<tr>
<td>30.0 m</td>
<td>30.0 m</td>
<td>54.9 m</td>
<td>73.2 m</td>
</tr>
<tr>
<td>36.0 m</td>
<td>36.0 m</td>
<td>54.9 m</td>
<td>73.2 m</td>
</tr>
</tbody>
</table>

**Note:**
1. Rating according to DIN 15018/3 (class B2, hoist class H1) and prEN 13000.
2. Heavy-duty boom top is required for the load exceed 150t.
3. Ratios shown are determined by the strength of the boom or other structural components.
4. Instruction in the operator’s manual must be strictly observed when operating the machine.
### Boom Arrangement Chart

#### Heavy-Duty Boom

<table>
<thead>
<tr>
<th>Boom Length (m)</th>
<th>Boom Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.2 (50)</td>
<td>Base-C-Tip</td>
</tr>
<tr>
<td>18.3 (60)</td>
<td>Base-A-Tip</td>
</tr>
<tr>
<td>21.3 (70)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
<tr>
<td>24.4 (80)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>27.4 (90)</td>
<td>Base-A-B-C-Tip</td>
</tr>
<tr>
<td>30.5 (100)</td>
<td>Base-A-B-C-C-Tip</td>
</tr>
<tr>
<td>33.5 (110)</td>
<td>Base-A-B-C-Tip</td>
</tr>
<tr>
<td>36.6 (120)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>39.6 (130)</td>
<td>Base-A-B-C-C-Tip</td>
</tr>
<tr>
<td>42.7 (140)</td>
<td>Base-A-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>45.7 (150)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>48.8 (160)</td>
<td>Base-A-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>51.8 (170)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>54.9 (180)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>57.9 (190)</td>
<td>Base-A-B-C-C-Tip</td>
</tr>
<tr>
<td>61.0 (200)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>64.0 (210)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>67.1 (220)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>70.1 (230)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
<tr>
<td>73.2 (240)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>76.2 (250)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
<tr>
<td>79.2 (260)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
<tr>
<td>82.2 (270)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
<tr>
<td>85.3 (280)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
<tr>
<td>88.4 (290)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
</tbody>
</table>

#### Standard Crane Boom

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<thead>
<tr>
<th>Boom Length (m)</th>
<th>Boom Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.3 (60)</td>
<td>Base-A-Tip</td>
</tr>
<tr>
<td>21.3 (70)</td>
<td>Base-A-Tip</td>
</tr>
<tr>
<td>24.4 (80)</td>
<td>Base-A-A-Tip</td>
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<td>Base-A-A-Tip</td>
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<tr>
<td>30.5 (100)</td>
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</tr>
<tr>
<td>48.8 (160)</td>
<td>Base-A-B-C-C-Tip</td>
</tr>
<tr>
<td>51.8 (170)</td>
<td>Base-A-B-C-C-Tip</td>
</tr>
<tr>
<td>54.9 (180)</td>
<td>Base-A-B-C-C-Tip</td>
</tr>
<tr>
<td>57.9 (190)</td>
<td>Base-A-B-C-C-Tip</td>
</tr>
<tr>
<td>61.0 (200)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>64.0 (210)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>67.1 (220)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>70.1 (230)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>73.2 (240)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>76.2 (250)</td>
<td>Base-A-B-C-C-C-C-Tip</td>
</tr>
</tbody>
</table>

#### Long Boom Arrangement Chart

<table>
<thead>
<tr>
<th>Boom Length (m)</th>
<th>Boom Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>73.2 (240)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>76.2 (250)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>79.2 (260)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
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<td>85.3 (280)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
<tr>
<td>88.4 (290)</td>
<td>Base-A-B-C-C-C-Tip</td>
</tr>
</tbody>
</table>

### Tower & Jib Arrangement Chart

#### Tower Arrangement Chart

<table>
<thead>
<tr>
<th>Boom Length (m)</th>
<th>Boom Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>36.6 (120)</td>
<td>Base-C-C-C-Cap</td>
</tr>
<tr>
<td>39.7 (130)</td>
<td>Base-C-A-A-A-Cap</td>
</tr>
<tr>
<td>42.7 (140)</td>
<td>Base-C-A-A-A-Cap</td>
</tr>
<tr>
<td>45.8 (150)</td>
<td>Base-C-A-A-A-Cap</td>
</tr>
<tr>
<td>51.9 (170)</td>
<td>Base-C-A-A-A-Cap</td>
</tr>
<tr>
<td>54.9 (180)</td>
<td>Base-C-A-C-C-Cap</td>
</tr>
<tr>
<td>58.0 (190)</td>
<td>Base-C-A-C-C-Cap</td>
</tr>
</tbody>
</table>

#### Jib Arrangement Chart

<table>
<thead>
<tr>
<th>Jib Length (m)</th>
<th>Tower Jib Arrangement</th>
</tr>
</thead>
<tbody>
<tr>
<td>27.4 (90)</td>
<td>Base-D-F-S (Tip[L])</td>
</tr>
<tr>
<td>30.5 (100)</td>
<td>Base-D-F-S (Tip[L])</td>
</tr>
<tr>
<td>33.6 (110)</td>
<td>Base-D-F-S (Tip[L])</td>
</tr>
<tr>
<td>36.6 (120)</td>
<td>Base-D-F-G-Tip(L)</td>
</tr>
<tr>
<td>39.6 (130)</td>
<td>Base-D-F-G-Tip(L)</td>
</tr>
<tr>
<td>42.7 (140)</td>
<td>Base-D-F-G-Tip(L)</td>
</tr>
<tr>
<td>45.7 (150)</td>
<td>Base-D-F-G-Tip(L)</td>
</tr>
<tr>
<td>48.8 (160)</td>
<td>Base-D-F-G-Tip(L)</td>
</tr>
</tbody>
</table>

### Working Radius

#### Crane Boom

![Working Radius Diagram](image-url)

### Fixed Jib (Jib Offset Angle: 10° + 30°)

![Fixed Jib Diagram](image-url)
SPECIFICATIONS OF PARTS AND ATTACHMENTS

Base Machine and Carbody
- Weight: 35,900 kg

Crawlers
- Weight: 23,600 kg

Heavy-duty Upper Boom
- Weight: 3,000 kg

Lower Boom
- Weight: 2,430 kg

Counterweights
- Total weight: 82,200 kg (A 13,500 kg + B 12,500 kg x 3 + C 8,400 kg x 2 + D 7,200 kg x 2)

**OTHER ATTACHMENTS**

<table>
<thead>
<tr>
<th>Attachment</th>
<th>Weight</th>
<th>Dimensions (L x W x H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.0 m (10 ft) Insert Boom</td>
<td>610 kg</td>
<td>3,175 mm x 2,275 mm x 2,125 mm</td>
</tr>
<tr>
<td>6.1 m (20 ft) Insert Boom</td>
<td>1,030 kg</td>
<td>6,225 mm x 2,275 mm x 2,125 mm</td>
</tr>
<tr>
<td>9.1 m (30 ft) Insert Boom</td>
<td>1,450 kg</td>
<td>9,270 mm x 2,275 mm x 2,125 mm</td>
</tr>
<tr>
<td>9.1 m insert tower</td>
<td>1,750 kg</td>
<td>9,270 mm x 2,275 mm x 2,125 mm</td>
</tr>
<tr>
<td>Light-duty boom tip</td>
<td>2,100 kg</td>
<td>5,725 mm x 1,525 mm x 1,525 mm</td>
</tr>
<tr>
<td>5.4 (18 ft) m insert tapered boom</td>
<td>840 kg</td>
<td>5,570 mm x 2,275 mm x 2,125 mm</td>
</tr>
<tr>
<td>Upper tower jib tip (Long boom tip)</td>
<td>990 kg</td>
<td>8,810 mm x 1,505 mm x 1,515 mm</td>
</tr>
<tr>
<td>Tower cap</td>
<td>2,100 kg</td>
<td>5,545 mm x 2,340 mm x 2,295 mm</td>
</tr>
<tr>
<td>Tower jib base</td>
<td>1,600 kg</td>
<td>10,380 mm x 2,335 mm x 1,525 mm</td>
</tr>
<tr>
<td>3.0 (10 ft) mid-point jib</td>
<td>330 kg</td>
<td>3,150 mm x 1,510 mm x 1,510 mm</td>
</tr>
<tr>
<td>3.0 m (10 ft) insert tower jib</td>
<td>330 kg</td>
<td>3,150 mm x 1,510 mm x 1,510 mm</td>
</tr>
<tr>
<td>6.1 m (20 ft) insert tower jib</td>
<td>535 kg</td>
<td>6,210 mm x 1,510 mm x 1,510 mm</td>
</tr>
<tr>
<td>9.1 m (30 ft) insert tower jib</td>
<td>755 kg</td>
<td>9,260 mm x 1,510 mm x 1,510 mm</td>
</tr>
<tr>
<td>Gantry</td>
<td>2,500 kg</td>
<td>6,110 mm x 1,760 mm x 820 mm</td>
</tr>
<tr>
<td>Tower strut</td>
<td>2,050 kg</td>
<td>7,410 mm x 2,380 mm x 1,125 mm</td>
</tr>
<tr>
<td>Upper spreader</td>
<td>635 kg</td>
<td>885 mm x 2,350 mm x 335 mm</td>
</tr>
<tr>
<td>Lower spreader</td>
<td>440 kg</td>
<td>885 mm x 1,500 mm x 320 mm</td>
</tr>
<tr>
<td>Upper spreader for tower jib</td>
<td>260 kg</td>
<td>1,020 mm x 245 mm x 765 mm</td>
</tr>
<tr>
<td>Lower spreader for tower jib</td>
<td>460 kg</td>
<td>2,275 mm x 690 mm x 835 mm</td>
</tr>
<tr>
<td>200-ton hook block</td>
<td>2,800 kg</td>
<td>700 mm x 995 mm x 2,225 mm</td>
</tr>
<tr>
<td>150-ton hook block</td>
<td>2,300 kg</td>
<td>700 mm x 715 mm x 2,665 mm</td>
</tr>
<tr>
<td>100-ton hook block</td>
<td>1,800 kg</td>
<td>700 mm x 555 mm x 2,025 mm</td>
</tr>
<tr>
<td>65-ton hook block</td>
<td>1,200 kg</td>
<td>700 mm x 385 mm x 1,815 mm</td>
</tr>
<tr>
<td>35-ton hook block</td>
<td>900 kg</td>
<td>700 mm x 385 mm x 1,575 mm</td>
</tr>
<tr>
<td>13.5-ton ball-hook</td>
<td>450 kg</td>
<td>1,200 mm x 380 mm dia.</td>
</tr>
</tbody>
</table>

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

KOBELCO CRANES CO., LTD.
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