



# HYDRAULIC CRAWLER CRANE CK2000

## SPECIFICATIONS & LIFTING CAPACITIES





# SPECIFICATIONS FOR CK2000 CRAWLER CRANE

The Kobelco CK2000 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

<b>Type</b>	Crawler mounted, fully revolving
<b>Maximum lifting capacity</b>	
<b>Heavy boom (Optional)</b>	400,000 lbs (181,400 kg) at 12.3 ft (3.75 m) operating radius, with 40' Heavy boom
<b>Standard boom</b>	352,800 lbs (160,000 kg) at 14.3 ft (4.36m) operating radius, with 50' Standard boom
<b>Basic boom length</b>	
<b>Heavy boom (Optional)</b>	40' (12.2m)
<b>Standard boom</b>	50' (15.2m)
<b>Maximum boom length</b>	
<b>Heavy boom (Optional)</b>	40' (12.2m) Length of the heavy boom is 40' only.
<b>Standard boom</b>	280' (85.34 m)
<b>Maximum boom &amp; fixed jib length</b>	240' +100' ( 73.15 m + 30.48 m)
<b>Working weight</b>	Approx. 362,200 lbs (164,300 kg)
<b>Ground pressure</b>	Approx. 13.24 psi (91.2 kPa)
<b>Gradeability</b>	30%

Calculations to determine working weight, Ground pressure and gradeability include the weight of the upper and lower works of the crane, counterweights, carbody weights, 50' standard boom and the hook block.

## 2. GENERAL DIMENSIONS



<b>Height to top of gantry(lowered)</b>	12' 6-1/2" (3.82 m)
<b>Width of upper machine with operator's cab</b>	11' 5-7/8" (3.50 m)
<b>Radius of rear end (counterweight)</b>	18' 8-3/8" (5.70 m)
<b>Counterweight ground clearance</b>	4' 7-7/8" (1.42 m)
<b>Center of rotation to boom foot pin</b>	4' 7-1/8" (1.40 m)
<b>Height from ground to boom foot pin</b>	8' 3-3/8" (2.53 m)
<b>Height over gantry (raised)</b>	31' 4-5/8" (9.57 m)
<b>Overall length of crawler</b>	27' 5-1/8" (8.36 m)
<b>Center to center of tumblers</b>	23' 9-13/16" (7.26 m)
<b>Overall width of crawlers</b>	22' 4-1/2" (6.82 m)
<b>Shoe width</b>	48" (1.22 m)
<b>Ground clearance of carbody</b>	1' 4-7/8" (0.43 m)

## 3. WORKING SPEED

<b>Hoist line speed (front and rear drum)</b>	330 ft/min (100 m/min)
<b>Lowering line speed (front and rear drum)</b>	330 ft/min (100 m/min)
<b>Boom hoist line speed</b>	178 ft/min ( 54 m/min)
<b>Boom lowering line speed</b>	178 ft/min ( 54 m/min) 2.6 rpm ( 2.6 min <sup>-1</sup> )
<b>Travel speed (High / Low)</b>	0.68/0.41 miles/hour (1.1/0.66 km/hour)

Line speeds based on single line, no loads and first layer of rope drum.

## 4. UPPER MACHINERY



<b>4.1 Power plant</b>	
<b>Diesel engine, make and model</b>	Mitsubishi 6D24-TLA2F (Comply with EPA "Tier 2")
<b>No. of cylinders - bore_stroke</b>	5-1/8" (130 mm) 5-7/8" (150 mm)
<b>Cycles</b>	4
<b>Total displacement</b>	728.9 cu.in (11,945 cm <sup>3</sup> )
<b>Rated output (SAE)</b>	316 HP / 2,000 rpm ( 235 kW/ 2,000 min <sup>-1</sup> )
<b>Maximum torque</b>	933 lbs ft / 1,400 rpm (1,264 Nm /1,400 min <sup>-1</sup> )
<b>Starter</b>	24 V /7.0 kW
<b>Alternator</b>	24 V / 80 A
<b>Batteries</b>	Two 12 volt, 150 Ah capacity parallel connected.
<b>Radiator</b>	Corrugated type core, thermostatically controlled.
<b>Throttle</b>	Twist grip type hand throttle, electrically actuated.
<b>Air cleaner</b>	Dry type with replaceable paper element.
<b>Fuel Tank</b>	105.7 gal. (400 liters) capacity.
<b>Lube oil filter</b>	Full flow and by-pass type with replaceable paper element.
<b>Fuel filter</b>	Heavy duty with spin off type cartridge.

### 4.2 Hydraulic pumps

All driven from heavy duty pump drive.

<b>Hoist, and propel</b>	2 Piston pumps
<b>Boom hoist</b>	1 Piston pump
<b>Swing</b>	1 Piston pump
<b>Control system and auxiliary</b>	2 Gear pumps
<b>Brake cooling system</b>	2 Gear pumps