

KOBELCO

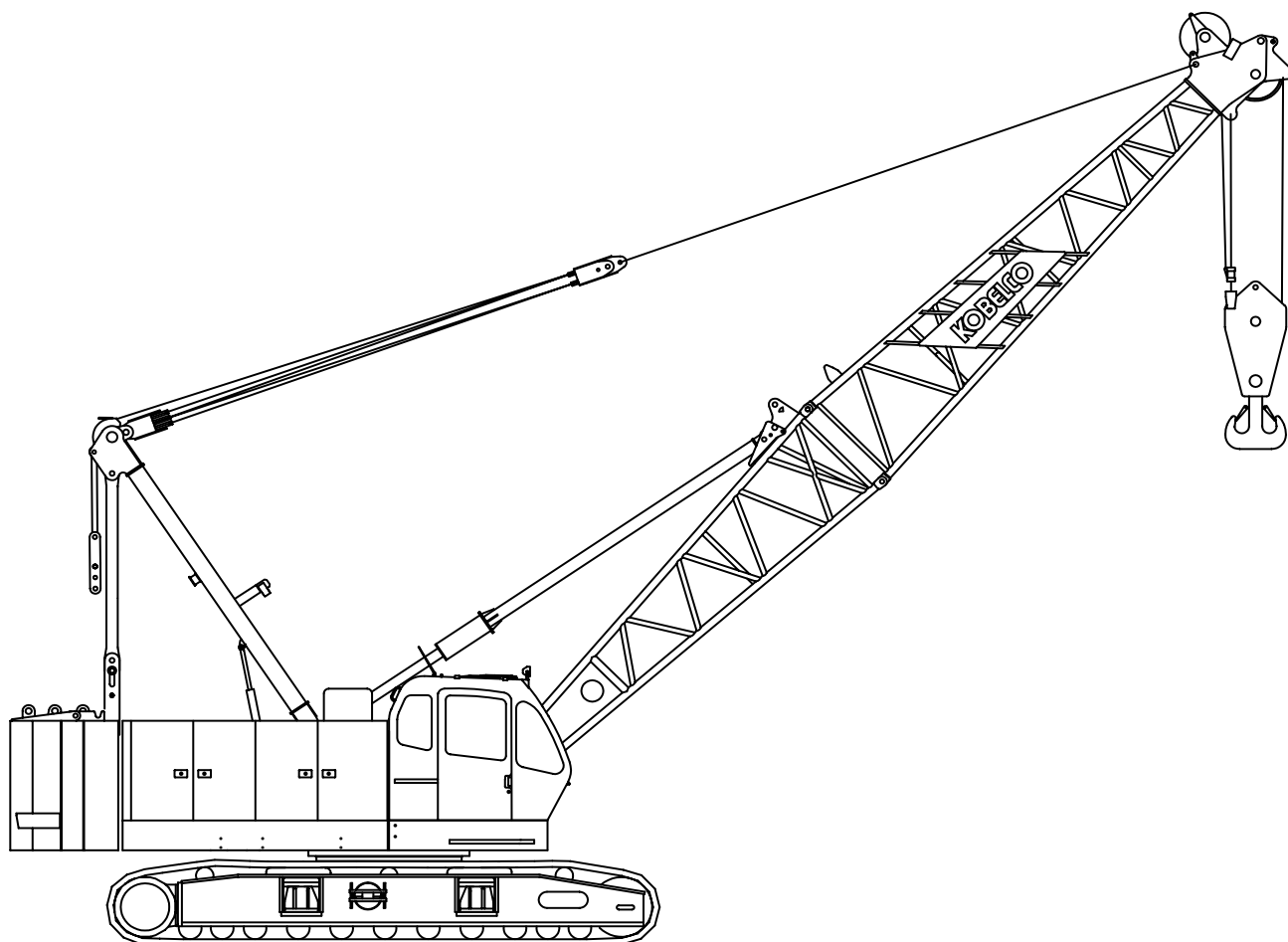
HYDRAULIC CRAWLER CRANE

CK1000-II

Max. Lifting Capacity: 100 US Tons

Max. Boom Length: 200 ft

Max. Boom + Jib Length: 190 ft + 60 ft



SPECIFICATIONS FOR CK1000-II CRAWLER CRANE

The Kobelco CK1000-II 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

Type	Crawler mounted, fully revolving
Maximum lifting capacity	200,000 lbs (90,700 kg) (at 11' operating radius, with 40' boom)
Basic boom length	40' (12.2 m)
Maximum boom length	200' (61.0 m)
Basic boom & jib length	80' + 30' (24.4 m + 9.1 m)
Maximum boom & jib length	190' + 60' (57.9 m + 18.3 m)
Working weight	Approx. 179,700 lbs (81,500 kg)
Ground bearing pressure	Approx. 11.0 psi (75.6 kPa)
Gradeability	40 %

Calculations to determine working weight, ground pressure and gradeability include the weight of the upper and lower works of the crane, counterweights and carbody weights, 40' boom and hook block.

2. GENERAL DIMENSIONS

Height to top of gantry (lowered)	10' 11" (3.32 m)
Width of upper machine with operator's cab	10' 6" (3.20 m)
Radius of rear end (counterweight)	14' 4" (4.38 m)
Counterweight ground clearance	3' 8" (1.12 m)
Center of rotation to boom foot pin	3' 7" (1.10 m)
Height from ground to boom foot pin	5' 10" (1.77 m)
Height over gantry (raised)	20' 4" (6.20 m)
Overall length of crawler	20' 8" (6.30 m)
Center to center of tumblers	17' 10" (5.44 m)
Overall width of crawlers	16' 10" (5.14 m)
Show width	36" (0.91 m)
Ground clearance of carbody	15" (0.39 m)

3. WORKING SPEED

Hoist line speed (front and rear drum)	390 ~ 10 ft/min (120 ~ 3 m/min)
Lowering line speed (front and rear drum)	390 ~ 10 ft/min (120 ~ 3 m/min)
Boom hoist line speed	230 ~ 7 ft/min (70 ~ 2 m/min)
Boom lowering line speed	230 ~ 7 ft/min (70 ~ 2 m/min)
Swing speed	4.0 rpm (4.0 min ⁻¹)
Travel speed (High / Low)	1.18 / 0.75 mph (1.9 / 1.2 km/hour)

Line speed based on single line, no load and first layer of rope on the drum. Line speed is controllable by Dial-type Speed Control System.

4. UPPER MACHINERY

4.1 Power plant

Diesel engine, make and model

Mitsubishi 6D24-TLA2F (Comply with EPA "Tier 2")

No. of cylinders	6
Bore X stroke	5.13" X 5.90" (130 mm X 150 mm)
Cycles	4
Total displacement	729 cu.in (11,945 cm ³)
Rated output SAE GROSS	316 HP / 2,000 rpm (235 kW / 2,000 min ⁻¹)

Maximum torque

933 lbs-ft / 1,400 rpm (1,265 Nm / 1,400 min⁻¹)

Starter 24 Volts / 7.0 kW

Alternator 24 Volts / 80 Amp

Batteries
Two 12 volt, 136 AH capacity parallel connected.

Radiator
Corrugated type core, thermostatically controlled.

Throttle
Twist grip type hand throttle, electrically controlled.

Air cleaner Dry type with replaceable paper element.

Fuel tank capacity 106 US gal. (400 liters)

Lube oil filter
Full flow and by-pass type with spin off type cartridge.

Fuel filter Heavy duty with spin off type cartridge.

Approximate fuel consumption
0.387 lb / HP-hr (226 g / kW-hr)
16.7 US gal. / hr at 100 % HP

4.2 Hydraulic pumps

All driven from heavy duty pump drive.	
Load hoist, boom hoist and propel	2 Piston pumps
Swing	1 Piston pump
Control system and auxiliary	2 Gear pumps
Break cooling system	2 Gear pumps

4.3 Counterweight and carbody weight

Counterweight (A)	1 x 26,630 lbs (12,070 kg)
Counterweight (B)	1 x 16,250 lbs (7,370 kg)
Counterweight (B)	1 x 20,610 lbs (9,350 kg)
Total weight	63,490 lbs (28,790 kg)
Carbody weight	2 x 7,360 lbs (3,340 kg)
Total weight	14,720 lbs (6,680 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.