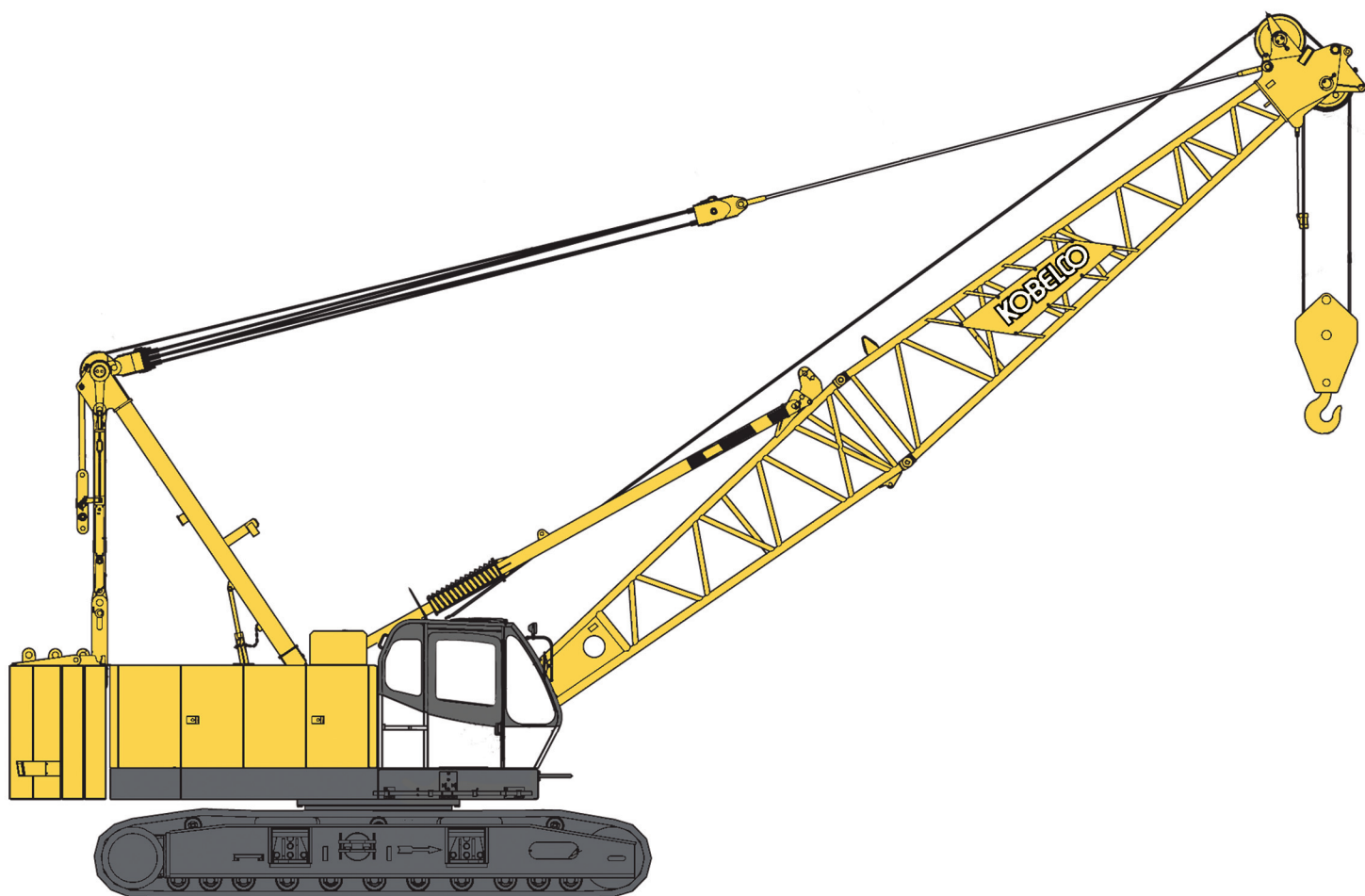




CK1000-III

HYDRAULIC CRAWLER CRANE



Max. Lifting Capacity: 100 US Tons

Max. Boom Length: 200 ft

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

SPECIFICATIONS FOR CK1000-III CRAWLER CRANE

The Kobelco CK1000-III 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)
Shoe 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

Hino P11C-UN (Comply with EPA "Tier 3")

No. of cylinders 6

Bore X stroke 4-13/16" X 5-7/8"
(122 mm X 150 mm)

Cycles 4

Total displacement 642 cu.in (10,520 cm³)

Rated output SAE GROSS
331 HP / 2,000 rpm (247 kW / 2,000 min⁻¹)

Maximum torque
959 lbs-ft / 1,500 rpm (1,300 Nm / 1,500 min⁻¹)

Starter 24 Volts / 6.0 kW

Alternator 24 Volts / 50 Amp

Batteries

Two 12 volt, 170 AH/20 HR capacity series 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 element type.

Fuel filter Replaceable paper element.

Approximate fuel consumption
0.362 lb / HP-hr (220 g / kW-hr)
17.3 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, max flow rate 68.1 US gal./min x 2
(258 ℓ/min x 2)

Swing

1 Piston pump, max flow rate 46.2 US gal./min
(175 ℓ/min)

Control system and auxiliary

2 Gear pumps, max flow rate
16.7 US gal./min x 10.6 US gal (61 ℓ/min x 40 ℓ/min)

Brake cooling system

2 Gear pumps, max flow rate 16.7 US gal./min x 2
(61 ℓ/min x 2)

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)