



BAY CRANE

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100 ton

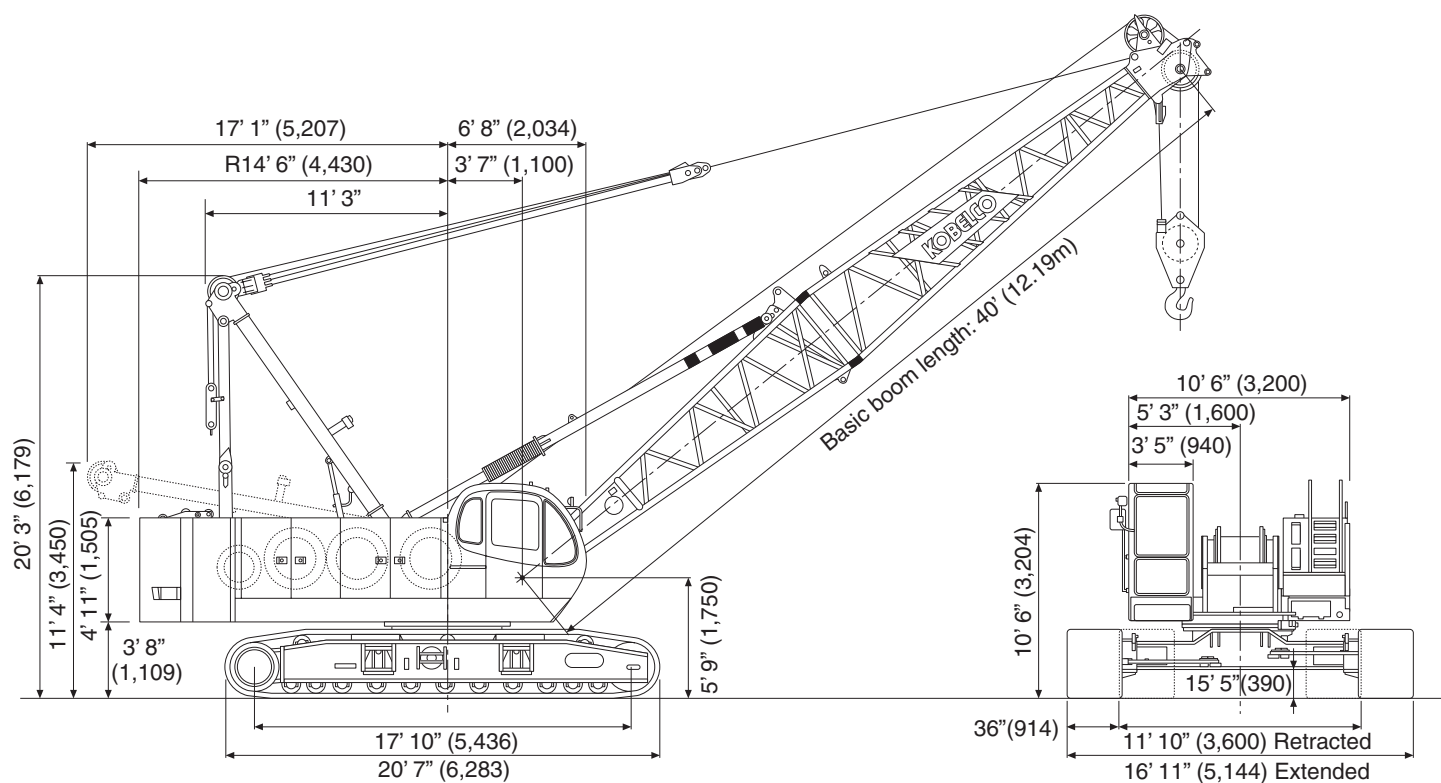


Kobelco CK1000 Crawler Crane
Load Charts & Specifications

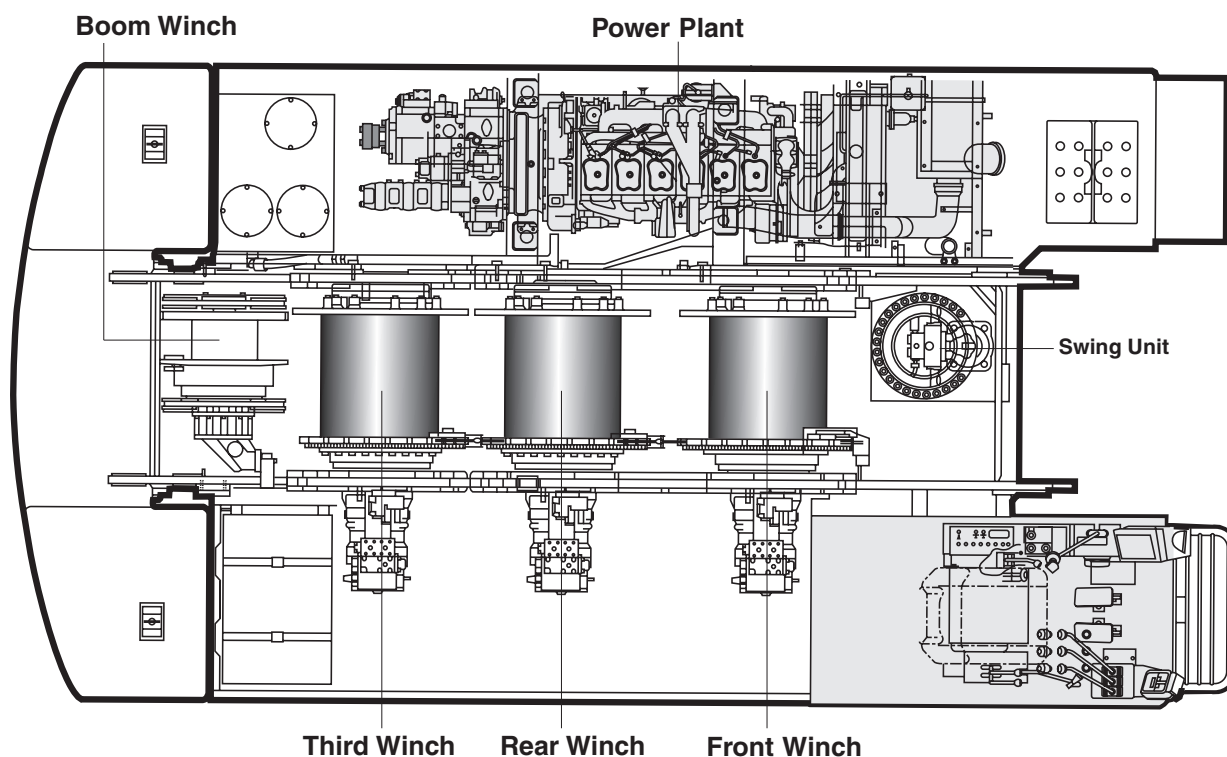


GENERAL DIMENSIONS

Unit: ft-in(mm)



UPPER MACHINERY LAYOUT





SPECIFICATIONS

UPPER MACHINERY



Power plant

Model Mitsubishi 6D24-TEG
Type Water-cooled diesel, direct fuel injection with turbocharger

No. of cylinder 6

Bore and stroke 5.1" x 5.9" (130 mm x 150 mm)

Displacement 729 cu in (11.945 liters)

Rated power 265 HP (198 kW) Net at 2,000 rpm (SAE J 1349)

Max. torque 784 lb•ft (1,059 N•m) Net at 1,400 rpm (SAE J 1349)

Cooling system Liquid, recirculating bypass

Starter 24 V, 5.5 kW

Alternator 24 V, 80 AMP

Cycles 4

Radiator Corrugated type core, thermostatically controlled

Air cleaner Dry type with replaceable paper element

Fuel tank capacity 105 US gal (400 liters)

Batteries Two 12V, 150 AH capacity batteries, connected in parallel



Hydraulic System

Pumps: All three variable displacement piston-type pumps are driven by a heavy-duty pump drive. One of these pumps is used in the right propel circuit and hook hoist circuit, and can accommodate an optional third circuit. Another is used in the left propel circuit, boom hoist circuit and hook hoist circuit. The third variable displacement pump is used in the swing circuit. In addition, two gear pumps are used in the control system and auxiliary equipment. One of these serves the clutch and brakes.

Control: Full-flow hydraulic control system for constant variable pressure to front and rear drums, boom hoist brakes and clutches. Controls respond instantly to the touch, delivering smooth function operation.

Relief valve pressure:

Load hoist, boom hoist and propel system 4,480 psi (315 kg/cm²)

Swing system 3,980 psi (280 kg/cm²)

Control system 1,140 psi (80 kg/cm²)

Reservoir capacity: 119 US gal (450 liters)

Cooling: Oil-to-air heat exchanger (plate-fin type)

Filtration: Full-flow and bypass type with replaceable paper element

Electrical wiring: All wiring harnesses and connectors are numbered for easier servicing. Machine is equipped with individual fused branch circuits.



Boom hoisting system

Powered by a hydraulic axial piston motor through a planetary reducer.

Brake: A spring-set, hydraulically released multiple-disc brake is internally fitted in the boom hoist motor and operated through a counter-balance valve.

Drum: Single drum, grooved for 5/8 in (15.8 mm) dia. wire rope

Line speed: Single line on first drum layer

Hoisting 213 ft/min (65 m/min)

Lowering 213 ft/min (65 m/min)



Load Hoist system

Front and rear drums for load hoist powered by hydraulic variable displacement piston-type motors, driven through planetary reducers.

Brakes & Clutches (compatible): Forced-circulation oil-cooled wet-type multi-disc brakes, each using positive and negative actuation.

Drums: (front and rear): 24.1" (613 mm) P.C.D. x 24.5" (622 mm) wide drums, each grooved for 1" (25.4 mm) wire rope.

Wire rope capacity:

Front drum 623 ft (190 m) working length

Rear drum 525 ft (160 m) working length

Optional third drum 623 ft (190 m) working length

Storage length (each drum) 984 ft (300 m)

Line speed: Single line on the first drum layer

Hoisting 328 ft/min (100m/min)

Lowering 328 ft/min (100m/min)

Optional third drum: with the same dimensions as front and rear drums



Swing system

Swing unit: Powered by a hydraulic piston-type motor driving spur gears through planetary reducers, the swing system provides 360° rotation.

Swing speed 3.5 rpm

Swing brake: A spring-set, hydraulically released multiple-disc brake is internally fitted in swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.



Operator's Cab

Totally enclosed, full vision cab fitted with tinted safety glass and a sliding front window. A fully adjustable, high-backed seat with arm rests permits operators to set their ideal working position. Side mounted console for auxiliary controls and instruments. An air conditioner, a signal horn, cigarette lighter, windshield wiper and inspection lamp socket are standard features.



Controls

In front of operator are the foot pedals for front and rear drum brakes. At operator's right side are the travel (propel) control levers and the function lock lever. To the operator's right front are the boom hoist control lever, main (front) and auxiliary (rear) winch control levers and the free-fall select switches for the main and auxiliary winches. To the operators left front are the swing control lever and third drum control lever (if the machine is so equipped). To the operator's left are the crawler extend/retract lever and the positive swing lock. The left-hand console contains toggle switches for travel (propel) speed, free-fall high/low select, gantry control, crane-clamshell select switch and the anti-two-block/boom over-hoist switches. Directly in front of the console are the drum pawl lock for boom, front, rear and third drum (if so equipped) and the engine ignition key. The swing brake and signal horn are mounted on the swing control lever.

Gauges: Fuel gauge, engine water temperature gauge, hour meter and tachometer are located on the monitor display.

Warning display: All potential warnings, including battery charge, engine oil pressure, air cleaner, engine oil filter, control main pressure, and hydraulic oil temperature will appear on the monitor display when a fault occurs.



Safety device: Function lock lever, anti-two-block, boom over hoist limit switch, boom angle indicator, signal horn, boom hoist drum lock, front and rear drum lock, swing lock, swing alarm (buzzer and lamps), boom backstops, safety latch on hook blocks, and optional load moment indicator

Gantry

High folding type, fitted with sheave frame for boom hoist reeving. Hydraulic lift is standard. Positions full up and full down.

Counterweights

Three-piece, vertically arranged, mounted behind the machinery compartment.

Total counterweight 63,000 lbs (28,600kg)

Carbody counterweight:

Total weight (Two-pieces)..... 8,800 lbs (4,000 kg)

Self-handling devices:

Optional counterweight self-removal device

Optional crawler frame self-removal device



Weight

Operating weight: Approx. 173,000 lbs (including 40 ft boom and 100 US-ton hook block)

Ground pressure:

Average 10.8 psi (0.76 kg/cm²) with standard 36" shoes

Max. gradeability: 40%

ATTACHMENT



Boom:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections. Boom tip is open throat construction. Two idler sheaves and three point sheaves are standard.

Max. lifting capacity	100 US tons (90,700kg)
Basic boom length	40 ft (12.19 m)
Max. boom length	200 ft (61.0 m)

Boom	Weight
Boom tip	2,650 lbs (1,200 kg)
Boom base	2,600 lbs (1,180 kg)
Insert (10 ft)	680 lbs (310 kg)
Insert (20 ft)	1,150 lbs (520 kg)
Insert (40 ft)	2,120 lbs (960 kg)

Jib (optional):

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.

Max. lifting capacity	24,000 lbs (10,900 kg)
Max. jib length	60 ft (18.3 m)
Max. total length of boom and jib	190 ft (57.9 m) + 60 ft (18.3 m)

Jib	Weight
Jib tip	620 lbs (280 kg)
Jib base	440 lbs (200 kg)
Insert (10 ft)	220 lbs (100 kg)
Insert (20 ft)	400 lbs (180 kg)

Diameter of wire ropes

Standard:

Load hoist (front, rear and third) 1 in (25.4 mm)
 Boom hoist (12-part line) 5/8 in (15.8 mm)
 Boom suspension rope (2 sets) 1 3/16 in (30 mm)
 Wire ropes IWRC, 6 x Fi (25) c/o (Front and rear)

Optional:

Jib back stay guy line (2 lines)..... 7/8 in (22 mm)

Boom backstops: telescopic type with spring bumper

Line pull

	Rated line pull	Maximum line pull
Front	25,100 lbs (11,400 kg)	44,100 lbs (20,000 kg)
Rear	25,100 lbs (11,400 kg)	44,100 lbs (20,000 kg)
Third (optional)	25,100 lbs (11,400 kg)	44,100 lbs (20,000 kg)

LOWER MACHINERY

Carbody: Steel-welded carbody with axles

Crawler: Crawler assemblies can be hydraulically extended/retracted. Crawler track tension is maintained by hydraulic jack force on the track-adjusting bearing block.

Crawler drive: Independent hydraulic propel drive is built into each side frame, each with a hydraulic motor propelling a drive tumbler through a planetary gear box.

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

Steering mechanism: A hydraulic travel system provides skid steering (driving one track only) and counter-rotation of tracks (driving tracks in opposite directions) and differential track speed.

Track rollers: 11 lower rollers and 3 upper rollers are fitted to each side frame, sealed and maintenance-free.

Shoes:

Number 66 per side

Shoes (flat):

Shoe width 36" (914 mm)

Max. travel speed:

High range 1.1 mph (1.7km/h)

Low range 0.7 mph (1.1km/h)



NOTES

The following guidelines should be referred to when when interpreting the load rating charts.

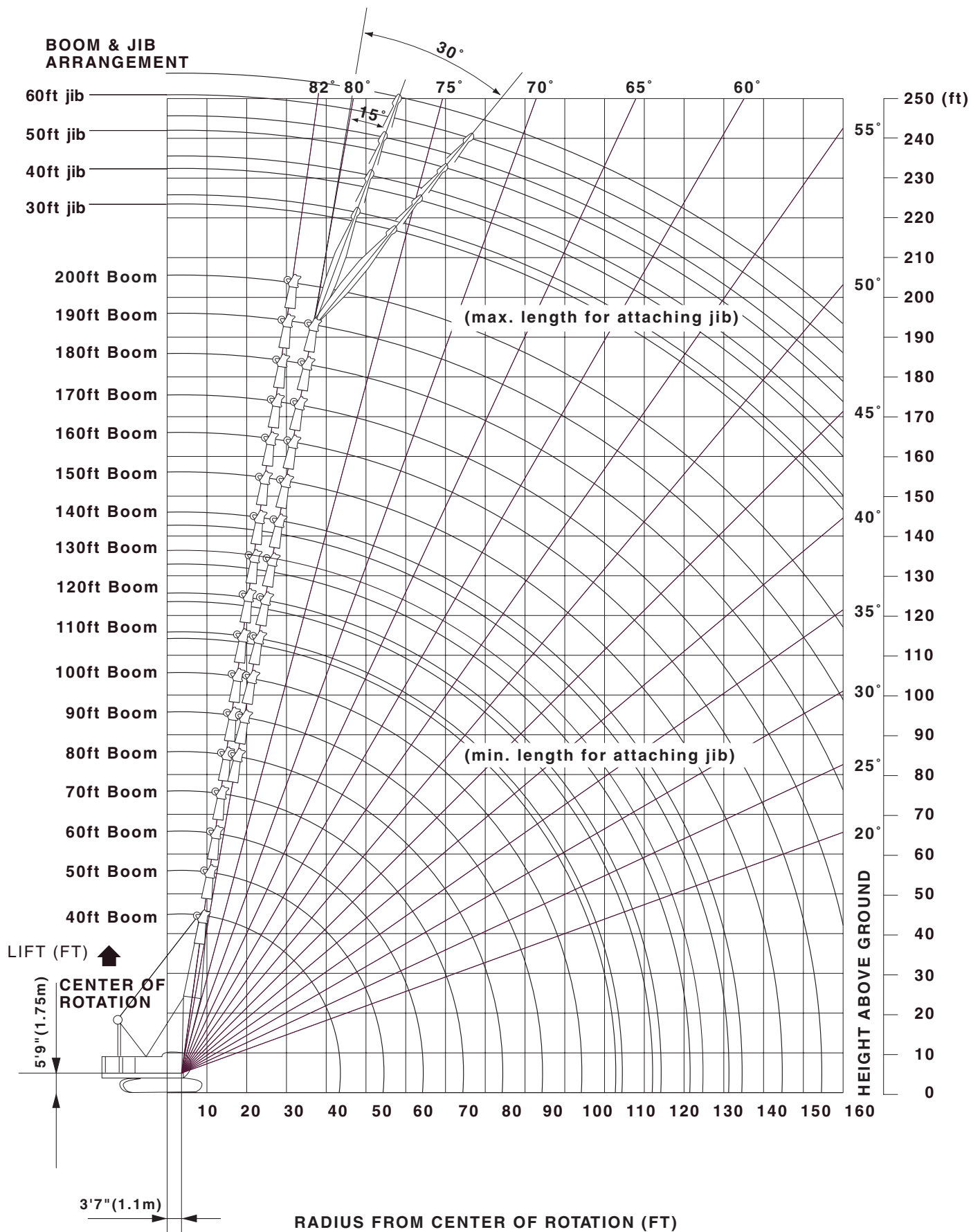
1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing on level and firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven grounds, 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 operator's manual and all the instruction manuals. If these manuals are missing, obtain replacements. Boom backstops are required for all boom lengths. Gantry must be in the fully raised position for all operations. Crawlers must be fully extended and be locked in position. 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 part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib length	Aux. Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	420	2,400	3,200	4,200	5,200

8. The total load that can be lifted with the jib is limited by rated jib loads. The total load that can be lifted with the auxiliary sheave is limited by rated auxiliary sheave loads.
9. Boom lengths for jib mounting are from 80 ft (24.4 m) to 190 ft (57.9 m).
10. An auxiliary sheave cannot be used on a 200 ft (61.0 m) boom length.
11. The boom should be erected over the front of the crawlers, not laterally.
12. Least stable position is over the side.
13. Lifting capacities listed apply only to the machine as originally manufactured and designed by KOBELCO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
14. Designed and rated to comply with ANSI Code B30.5.



WORKING RANGES (with fixed jib)



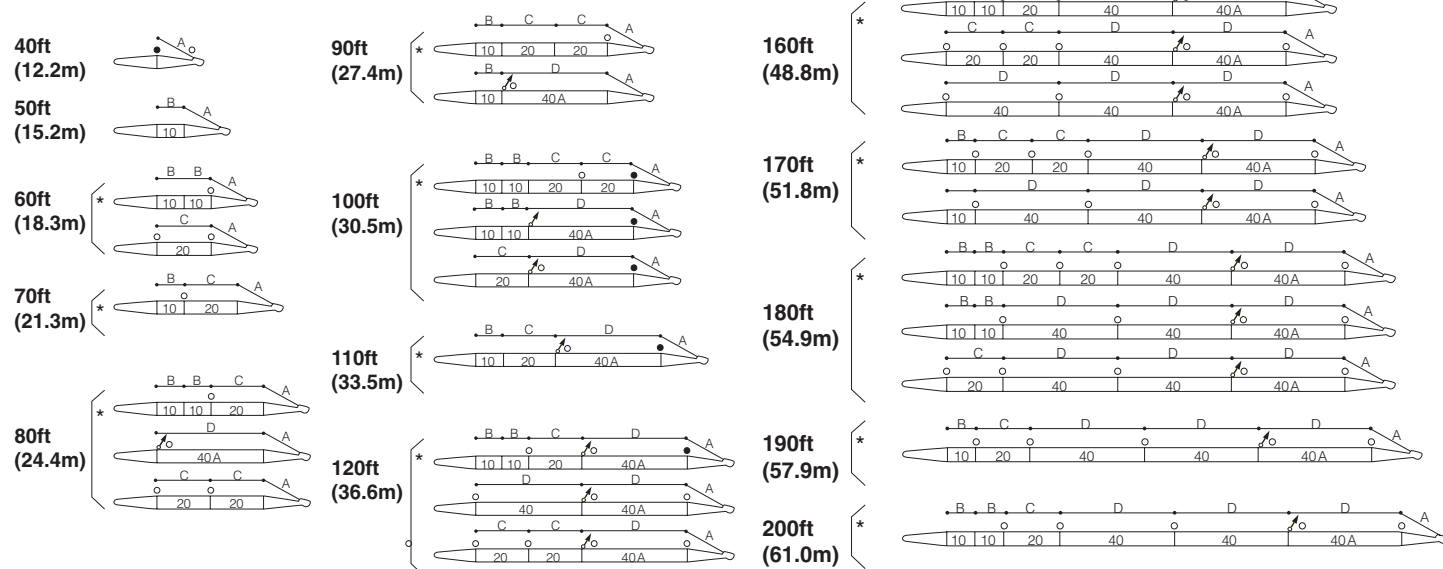


BOOM AND GUY LINE ARRANGEMENT

Symbol	Dimensions of Guy Line	
	Diameter in (mm)	Length ft-in (m)
A	13/16 (30)	20-3 (6.17)
B	13/16 (30)	10-0 (3.05)
C	13/16 (30)	20-0 (6.10)
D	13/16 (30)	40-0 (12.20)

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

- ⚡ Location of jib backstay lug
- Location of cable roller on boom tip
- Location of cable roller on boom insert

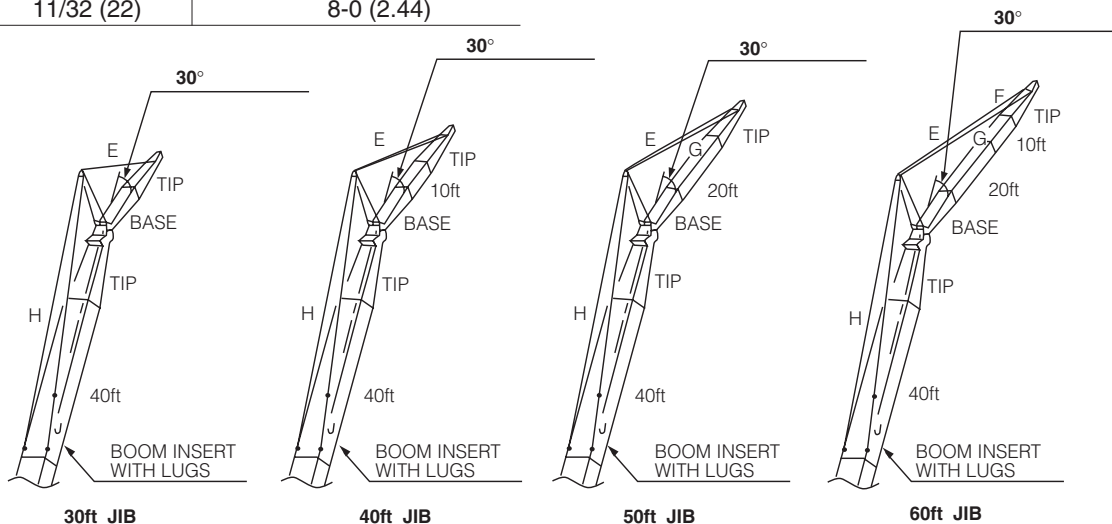


* Manufacturer's recommended boom arrangement makes shorter boom arrangements possible.

JIB AND GUY LINE ARRANGEMENT

Symbol	Dimensions of Guy Line	
	Diameter in (mm)	Length ft-in (m)
E	11/32 (22)	63-5 (19.34)
F	11/32 (22)	19-3 (5.88)
G	11/32 (22)	38-7 (11.75)
H	11/32 (22)	123-2 (37.54)
J	11/32 (22)	8-0 (2.44)

- This figure shows the arrangement when the jib offset angle is 30 degrees.
- When setting the offset angle to 10 degrees, deduct the additional guy line J from the boom side guy line H.
- For jib use with 80-100 ft of main boom, you must use the 40 ft boom insert that has lugs.
- Jib use is from 80-190 ft of main boom only.



**CK1000 Lifting Capacity****LIFT CRANE SERVICE**

Refer to notes page 4.

3 Counterweights, 2 Carbody weights, Crawler Fully Extended

Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)	Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)
40	10.0	81.9	45.3	*200,000	50	12.0	81.2	55.1	*185,180
	11.0	80.5	45.2	*200,000		13.0	80.1	55.0	*171,950
	12.0	79.0	45.0	*185,400		14.0	78.9	54.8	*160,050
	13.0	77.5	44.8	*172,170		15.0	77.7	54.6	*150,130
	14.0	76.1	44.6	*160,270		16.0	76.5	54.4	*140,870
	15.0	74.6	44.3	*150,350		17.0	75.4	54.1	*133,150
	16.0	73.1	44.0	*141,090		18.0	74.2	53.8	*125,880
	17.0	71.5	43.7	*133,370		19.0	73.0	53.5	*119,040
	18.0	70.0	43.3	*126,100		20.0	71.7	53.2	*111,330
	19.0	68.5	42.9	*119,040		22.0	69.3	52.5	*98,760
	20.0	66.9	42.5	*111,110		24.0	66.8	51.7	87,520
	22.0	63.7	41.6	*97,440		26.0	64.3	50.8	77,820
	24.0	60.5	40.5	*86,420		28.0	61.7	49.8	70,100
	26.0	57.1	39.3	*76,940		30.0	59.0	48.6	63,710
	28.0	53.5	37.9	*69,000		32.0	56.3	47.3	58,420
	30.0	49.8	36.3	*62,160		34.0	53.5	45.9	53,790
	32.0	45.9	34.5	*55,990		36.0	50.5	44.3	50,040
	34.0	41.7	32.3	*50,260		38.0	47.4	42.5	46,510
	36.0	37.0	29.8	*45,190		40.0	44.2	40.6	43,430
	38.0	31.8	26.8	*40,120		45.0	35.0	34.4	*35,270
	40.0	25.7	23.1	*35,270		50.0	22.8	25.1	*27,110
60	13.0	81.7	65.1	*171,730	70	15.0	81.3	74.9	*149,690
	14.0	80.8	65.0	*159,830		16.0	80.4	74.8	*140,430
	15.0	79.8	64.8	*149,910		17.0	79.6	74.6	*131,830
	16.0	78.8	64.6	*140,650		18.0	78.8	74.4	*122,570
	17.0	77.8	64.4	*132,930		19.0	77.9	74.2	*114,630
	18.0	76.9	64.2	*124,330		20.0	77.1	74.0	*107,580
	19.0	75.9	63.9	*116,180		22.0	75.4	73.5	*95,900
	20.0	74.9	63.7	*109,120		24.0	73.7	72.9	*86,420
	22.0	72.9	63.1	*97,000		26.0	72.0	72.3	77,600
	24.0	70.9	62.4	*87,300		28.0	70.2	71.6	69,880
	26.0	68.8	61.7	77,600		30.0	68.5	70.9	63,490
	28.0	66.8	60.9	69,880		32.0	66.7	70.0	57,980
	30.0	64.6	59.9	63,490		34.0	64.9	69.1	53,350
	32.0	62.5	58.9	58,200		36.0	63.1	68.1	49,600
	34.0	60.3	57.8	53,570		38.0	61.2	67.1	46,070
	36.0	58.1	56.7	49,600		40.0	59.3	65.9	42,980
	38.0	55.8	55.3	46,070		45.0	54.4	62.6	37,030
	40.0	53.4	53.9	43,210		50.0	49.1	58.6	32,180
	45.0	47.1	49.7	37,030		55.0	43.4	53.8	28,650
	50.0	40.1	44.4	32,400		60.0	37.0	47.9	25,570
	55.0	31.8	37.3	*27,330		65.0	29.4	40.1	*22,040
	60.0	20.7	26.9	*21,600					
80	16.0	81.6	84.9	*138,660	80	34.0	68.2	80.0	53,130
	17.0	80.9	84.7	*128,300		36.0	66.7	79.2	49,160
	18.0	80.2	84.6	*119,260		38.0	65.1	78.3	45,850
	19.0	79.5	84.4	*111,550		40.0	63.5	77.3	42,760
	20.0	78.7	84.2	*104,710		45.0	59.4	74.6	36,590
	22.0	77.3	83.8	*93,250		50.0	55.1	71.3	31,960
	24.0	75.8	83.3	*84,210		55.0	50.6	67.5	28,210
	26.0	74.3	82.7	*76,720		60.0	45.7	63.0	25,130
	28.0	72.8	82.1	69,440		65.0	40.4	57.6	22,700
	30.0	71.3	81.5	63,050		70.0	34.5	51.0	20,720
	32.0	69.8	80.8	57,760		75.0	27.4	42.5	*17,850

**CK1000 Lifting Capacity****LIFT CRANE SERVICE**

Refer to notes page 4.

3 Counterweights, 2 Carbody weights, Crawler Fully Extended

Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)	Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)
90	17.0	81.9	94.8	*125,660	100	19.0	81.6	104.7	*107,360
	18.0	81.3	94.7	*117,720		20.0	81.0	104.5	*100,750
	19.0	80.6	94.5	*109,780		22.0	79.8	104.1	*89,500
	20.0	80.0	94.4	*103,170		24.0	78.7	103.8	*80,680
	22.0	78.7	94.0	*91,710		26.0	77.5	103.4	*73,410
	24.0	77.4	93.6	*82,670		28.0	76.3	102.9	*67,460
	26.0	76.1	93.1	*75,390		30.0	75.1	102.4	*62,390
	28.0	74.8	92.6	*69,220		32.0	73.9	101.8	57,310
	30.0	73.4	92.0	63,050		34.0	72.7	101.2	52,680
	32.0	72.1	91.4	57,540		36.0	71.5	100.6	48,720
	34.0	70.8	90.7	52,910		38.0	70.3	99.9	45,410
	36.0	69.4	90.0	49,160		40.0	69.1	99.1	42,320
	38.0	68.0	89.2	45,630		45.0	66.0	97.1	36,150
	40.0	66.6	88.3	42,540		50.0	62.8	94.7	31,520
	45.0	63.1	86.0	36,370		55.0	59.5	91.9	27,770
	50.0	59.5	83.3	31,740		60.0	56.1	88.7	24,690
	55.0	55.7	80.1	27,990		65.0	52.6	85.2	22,260
	60.0	51.7	76.3	25,130		70.0	48.8	81.0	20,060
	65.0	47.5	72.1	22,480		75.0	44.9	76.3	18,290
	70.0	43.0	67.1	20,500		80.0	40.6	70.8	16,750
	75.0	38.0	61.1	18,730		85.0	36.0	64.5	15,430
	80.0	32.4	53.9	*17,190		90.0	30.7	56.8	*14,320
	85.0	25.8	44.9	*14,770		95.0	24.4	47.0	*12,340
110	20.0	81.8	114.6	*100,300	120	22.0	81.6	124.4	*87,080
	22.0	80.8	114.3	*89,060		24.0	80.6	124.1	*78,480
	24.0	79.7	114.0	*80,020		26.0	79.6	123.8	*71,200
	26.0	78.7	113.6	*72,750		28.0	78.6	123.4	*65,250
	28.0	77.6	113.2	*66,790		30.0	77.7	123.0	*60,180
	30.0	76.5	112.7	*61,720		32.0	76.7	122.5	*55,990
	32.0	75.4	112.2	*57,310		34.0	75.7	122.0	*52,240
	34.0	74.4	111.7	52,680		36.0	74.7	121.5	48,500
	36.0	73.3	111.1	48,720		38.0	73.7	120.9	44,970
	38.0	72.2	110.5	45,410		40.0	72.7	120.3	42,100
	40.0	71.1	109.8	42,320		45.0	70.2	118.6	35,930
	45.0	68.3	107.9	36,150		50.0	67.6	116.7	31,080
	50.0	65.5	105.8	31,520		55.0	65.0	114.5	27,330
	55.0	62.6	103.4	27,770		60.0	62.3	112.0	24,470
	60.0	59.6	100.6	24,690		65.0	59.6	109.2	21,820
	65.0	56.5	97.4	22,260		70.0	56.8	106.1	19,840
	70.0	53.3	93.9	20,060		75.0	53.9	102.7	18,070
	75.0	49.9	89.9	18,290		80.0	50.8	98.7	16,530
	80.0	46.4	85.4	16,750		85.0	47.7	94.5	15,210
	85.0	42.7	80.3	15,430		90.0	44.3	89.5	13,880
	90.0	38.6	74.3	14,320		95.0	40.8	84.1	13,000
	95.0	34.2	67.5	13,220		100.0	36.9	77.8	12,120
	100.0	29.2	59.4	*12,120		105.0	32.7	70.5	11,240
	105.0	23.2	49.1	*10,360		110.0	27.9	61.9	*10,140
						115.0	22.2	51.1	*8,590

**CK1000 Lifting Capacity****LIFT CRANE SERVICE**

Refer to notes page 4.

3 Counterweights, 2 Carbody weights, Crawler Fully Extended

Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)	Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)
130	24.0	81.3	134.2	*71,860	140	24.0	81.9	144.3	*61,720
	26.0	80.4	133.9	*70,980		26.0	81.1	144.0	*60,840
	28.0	79.5	133.5	*65,030		28.0	80.3	143.7	*59,960
	30.0	78.6	133.2	*59,960		30.0	79.4	143.3	*58,640
	32.0	77.7	132.7	*55,550		32.0	78.6	143.0	*54,450
	34.0	76.8	132.3	*51,800		34.0	77.8	142.6	*50,700
	36.0	75.9	131.8	*48,500		36.0	76.9	142.1	*47,390
	38.0	75.0	131.3	44,970		38.0	76.1	141.6	*44,530
	40.0	74.1	130.7	41,880		40.0	75.2	141.1	41,660
	45.0	71.8	129.2	35,710		45.0	73.1	139.7	35,490
	50.0	69.4	127.4	31,080		50.0	71.0	138.1	30,860
	55.0	67.1	125.5	27,330		55.0	68.8	136.2	27,110
	60.0	64.6	123.1	24,250		60.0	66.6	134.2	24,030
	65.0	62.2	120.7	21,820		65.0	64.3	131.9	21,380
	70.0	59.6	117.8	19,620		70.0	62.0	129.3	19,400
	75.0	57.0	114.7	17,850		75.0	59.7	126.6	17,630
	80.0	54.4	111.4	16,310		80.0	57.2	123.4	16,090
	85.0	51.6	107.6	14,990		85.0	54.8	120.1	14,770
	90.0	48.7	103.4	13,880		90.0	52.2	116.3	13,440
	95.0	45.7	98.7	12,780		95.0	49.6	112.3	12,560
	100.0	42.5	93.5	11,900		100.0	46.8	107.8	11,460
	105.0	39.1	87.7	11,020		105.0	43.9	102.8	10,800
	110.0	35.4	81.0	10,360		110.0	40.9	97.4	9,920
	115.0	31.4	73.4	*9,470		115.0	37.6	91.1	9,250
	120.0	26.8	64.3	*8,370		120.0	34.1	84.2	8,590
	125.0	21.3	52.9	*7,050		125.0	30.2	76.1	*7,710
						130.0	25.8	66.6	*6,830
						135.0	20.5	54.7	*5,730
150	26.0	81.7	154.2	*52,680	160	28.0	81.5	164.0	*44,090
	28.0	80.9	153.8	*51,800		30.0	80.8	163.7	*43,430
	30.0	80.2	153.5	*51,140		32.0	80.1	163.3	*42,760
	32.0	79.4	153.2	*50,260		34.0	79.3	162.9	*42,100
	34.0	78.6	152.8	*49,600		36.0	78.6	162.6	*41,440
	36.0	77.8	152.3	*46,510		38.0	77.9	162.2	*40,780
	38.0	77.0	151.9	*43,650		40.0	77.1	161.7	*40,340
	40.0	76.3	151.4	*41,220		45.0	75.3	160.5	35,270
	45.0	74.3	150.1	35,720		50.0	73.4	159.0	30,640
	50.0	72.3	148.6	30,640		55.0	71.5	157.4	26,890
	55.0	70.3	146.9	26,890		60.0	69.6	155.7	23,800
	60.0	68.2	145.0	23,800		65.0	67.7	153.7	21,160
	65.0	66.1	142.8	21,380		70.0	65.8	151.6	19,180
	70.0	64.0	140.5	19,180		75.0	63.8	149.3	17,410
	75.0	61.9	138.0	17,410		80.0	61.8	146.7	15,870
	80.0	59.7	135.2	15,870		85.0	59.7	143.8	14,320
	85.0	57.4	132.1	14,550		90.0	57.6	140.8	13,220
	90.0	55.1	128.7	13,440		95.0	55.4	137.4	12,120
	95.0	52.8	125.2	12,340		100.0	53.2	133.8	11,240
	100.0	50.3	121.1	11,460		105.0	51.0	130.0	10,360
	105.0	47.8	116.8	10,580		110.0	48.6	125.7	9,700
	110.0	45.1	112.0	9,700		115.0	46.2	121.2	9,030
	115.0	42.3	106.7	9,030		120.0	43.6	116.0	8,370
	120.0	39.4	100.9	8,590		125.0	40.9	110.5	7,710
	125.0	36.3	94.5	7,930		130.0	38.1	104.4	7,270
	130.0	32.9	87.2	*7,490		135.0	35.1	97.1	*6,830
	135.0	29.1	78.7	*6,610		140.0	31.8	90.0	*5,950
	140.0	24.9	68.9	*5,730		145.0	28.2	81.3	*5,290
						150.0	24.1	71.0	*4,400



CK1000 Lifting Capacity					LIFT CRANE SERVICE		Refer to notes page 4.		
3 Counterweights, 2 Carbody weights, Crawler Fully Extended									
Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)	Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Boom Point Elev. (ft)	360° Rated Load (lbs)
170	28.0	82.0	174.1	*38,800	180	30.0	81.8	183.9	*33,730
	30.0	81.3	173.8	*38,130		32.0	81.2	183.6	*33,060
	32.0	80.6	173.4	*37,470		34.0	80.5	183.3	*32,620
	34.0	80.0	173.1	*37,030		36.0	79.9	182.9	*31,960
	36.0	79.3	172.8	*36,370		38.0	79.2	182.5	*31,520
	38.0	78.6	172.4	*35,710		40.0	78.6	182.5	*31,080
	40.0	77.9	171.9	*35,270		45.0	77.0	181.1	*29,760
	45.0	76.2	170.8	*33,950		50.0	75.3	179.8	*28,650
	50.0	74.4	169.4	30,420		55.0	73.7	178.5	26,230
	55.0	72.7	168.0	26,670		60.0	72.0	176.9	23,360
	60.0	70.9	166.3	23,580		65.0	70.3	175.2	20,720
	65.0	69.1	164.5	20,940		70.0	68.6	173.3	18,730
	70.0	67.3	162.5	18,950		75.0	66.9	171.3	16,750
	75.0	65.4	160.3	17,190		80.0	65.1	169.0	15,210
	80.0	63.6	158.0	15,650		85.0	63.4	166.6	13,880
	85.0	61.7	155.4	14,100		90.0	61.6	164.0	12,780
	90.0	59.7	152.5	13,000		95.0	59.7	161.1	11,680
	95.0	57.7	149.4	11,900		100.0	57.9	158.2	10,800
	100.0	55.7	146.1	11,020		105.0	56.0	154.9	9,920
	105.0	53.6	142.5	10,140		110.0	54.0	151.3	9,030
	110.0	51.5	138.7	9,470		115.0	52.0	147.5	8,370
115.0	49.3	134.6	8,810	120.0	50.0	143.6	7,710		
120.0	47.1	130.2	8,150	125.0	47.8	139.0	7,270		
125.0	44.7	125.3	7,490	130.0	45.6	134.3	6,830		
130.0	42.2	119.9	7,050	135.0	43.4	129.4	6,170		
135.0	39.6	114.1	6,610	140.0	41.0	123.8	5,730		
140.0	36.9	107.8	*6,170	145.0	38.5	117.7	*5,290		
145.0	34.0	100.8	*5,510	150.0	35.8	111.0	*4,850		
150.0	30.8	92.7	*4,850	155.0	33.0	103.7	*4,180		
155.0	27.3	83.7	*4,180	160.0	29.9	95.4	*3,520		
160.0	23.3	73.0	*3,520	165.0	26.5	86.0	*3,080		
190	32.0	81.6	193.7	*29,540	200	34.0	81.5	203.5	*25,790
	34.0	81.0	193.4	*28,880		36.0	80.9	203.2	*25,350
	36.0	80.4	193.1	*28,430		38.0	80.3	202.9	*24,910
	38.0	79.8	192.7	*27,990		40.0	79.7	202.5	*24,470
	40.0	79.2	192.4	*27,550		45.0	78.3	201.6	*23,360
	45.0	77.6	191.3	*26,450		50.0	76.8	200.4	*22,480
	50.0	76.1	190.1	*25,350		55.0	75.3	199.2	*21,380
	55.0	74.5	188.8	*24,250		60.0	73.8	197.8	*19,840
	60.0	73.0	187.4	*22,700		65.0	72.3	196.2	*18,510
	65.0	71.4	185.8	20,500		70.0	70.8	194.6	*16,970
	70.0	69.8	184.0	18,510		75.0	69.3	192.8	*15,650
	75.0	68.2	182.1	16,750		80.0	67.8	190.9	*14,550
	80.0	66.5	179.9	15,210		85.0	66.2	188.7	13,440
	85.0	64.9	177.8	13,660		90.0	64.6	186.4	12,340
	90.0	63.2	175.3	12,560		95.0	63.0	183.9	11,240
	95.0	61.5	172.7	11,460		100.0	61.4	181.3	10,360
	100.0	59.7	169.7	10,580		105.0	59.8	178.5	9,470
	105.0	58.0	166.8	9,700		110.0	58.1	175.5	8,590
	110.0	56.2	163.6	9,030		115.0	56.4	172.3	7,930
	115.0	54.3	160.0	8,370		120.0	54.6	168.7	7,270
	120.0	52.5	156.4	7,710		125.0	52.9	165.2	*6,610
125.0	50.5	152.3	7,050	130.0	51.0	161.1	*5,950		
130.0	48.5	148.0	6,610	135.0	49.2	157.1	*5,290		
135.0	46.5	143.5	6,170	140.0	47.2	152.4	*4,620		
140.0	44.4	138.6	5,730	145.0	45.2	147.6	*4,180		
145.0	42.1	133.1	*5,290	150.0	43.2	142.6	*3,520		
150.0	39.8	127.3	*4,850	155.0	41.0	136.9	*3,080		
155.0	37.4	121.1	*4,180						
160.0	34.8	114.1	*3,740						
165.0	32.1	106.7	*3,300						



CK1000 Jib Lifting Capacity

LIFT CRANE SERVICE

Refer to notes page 4.

80 ft Boom									90 ft Boom								
Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle		Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
30	*24,000								32	*24,000							
32	*24,000								34	*24,000							
34	*24,000		*24,000						36	*24,000		*24,000					
36	*24,000		*24,000						38	*24,000		*24,000		*20,000			
38	*24,000	*21,000	*24,000		*20,000				40	*24,000	*21,000	*24,000		*20,000			
40	*24,000	*21,000	*24,000		*20,000		*18,000		45	*24,000	*21,000	*24,000		*20,000		*18,000	
45	*24,000	*20,700	*24,000	*15,360	*20,000		*18,000		50	*24,000	*20,100	*24,000		*20,000		*18,000	
50	*24,000	*19,510	*24,000	*14,480	*20,000		*17,850		55	*24,000	*19,020	*23,890	*14,020	*19,550	*11,300	*16,970	
55	*24,000	*18,380	*22,480	*13,640	*18,560	*11,080	*16,180		60	*24,000	*18,120	*22,020	*13,330	*18,000	*10,730	*15,630	*9,100
60	*24,000	*17,500	*20,700	*12,980	*17,080	*10,490	*14,850	*8,950	65	22,660	*17,320	*20,410	*12,360	*16,730	*10,250	*14,460	*8,660
65	22,920	*16,710	*19,180	*12,360	*15,800	*9,980	*13,730	*8,480	70	20,540	*16,620	*19,040	*12,760	*15,580	*9,780	*13,470	*8,240
70	20,810	*16,020	*17,870	*11,830	*14,720	*9,540	*12,760	*8,060	75	18,620	*15,960	*17,760	*12,230	*14,520	*9,360	*12,520	*7,870
75	18,910	*15,380	*16,660	*11,350	*13,710	*9,100	*11,860	*7,670	80	17,080	*15,430	*16,730	*11,720	*13,660	*8,990	*11,770	*7,530
80	17,370	*14,850	*15,670	*10,930	*12,870	*8,730	*11,130	*7,340	85	15,760	*14,940	*15,800	*11,300	*12,890	*8,680	*11,080	*7,230
85	16,020		*14,810	*10,560	*12,140	*8,420	*10,470	*7,030	90	14,570		14,740	*10,930	*12,210	*8,370	*10,470	*6,960
90	14,850		*14,040	*10,250	*11,500	*8,130	*9,870	*6,760	95	13,470		13,620	*10,580	*11,570	*8,110	*9,890	*6,700
95	13,750		*13,310		*10,890	*7,840	*9,320	*6,500	100	12,540		12,690	*10,270	*11,020	*7,870	*9,390	*6,480
100	12,830				*10,360	*7,620	*8,860	*6,280	105			11,860		*10,530	*7,640	*8,950	*6,280
105							*8,440	*6,100	110					*10,070		*8,550	*6,100
110							*8,060	*5,930	115					*9,650		*8,150	*5,930
115							*7,690		120					*9,300		*7,820	
120							*7,380		125					*8,970		*7,530	
125							*7,120		130							*7,270	
									135							*7,010	

100 ft Boom									110 ft Boom								
Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle		Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
32	*24,000								30								
34	*24,000								32								
36	*24,000		*24,000						34	*24,000							
38	*24,000		*24,000						36	*24,000							
40	*24,000		*24,000		*20,000				38	*24,000		*24,000					
45	*24,000	*21,000	*24,000		*20,000		18,000		40	*24,000		*24,000					
50	*24,000	*20,650	*24,000	*15,100	*20,000		18,000		45	*24,000	*21,000	*24,000		*20,000		*18,000	
55	*24,000	*19,570	*24,000	*14,320	*20,000	*11,500	*17,720		50	*24,000	*21,000	*24,000	*15,360	*20,000		*18,000	
60	*24,000	*18,690	*23,280	*13,660	*18,930	*10,950	*16,350		55	*24,000	*20,100	*24,000	*14,610	*20,000		*18,000	
65	22,440	*17,900	*21,620	*13,090	*17,590	*10,470	*15,160	*8,810	60	*24,000	*19,220	*24,000	*13,970	*19,810	*11,150	*17,040	
70	20,320	*17,190	*20,190	*12,560	*16,420	*10,030	*14,130	*8,420	65	22,260	*18,430	22,500	*13,400	*18,430	*10,670	*15,820	*8,970
75	18,400	*16,510	18,620	*12,050	*15,340	*9,610	*13,160	*8,040	70	20,150	*17,700	20,370	*12,870	*17,230	*10,250	*14,770	*8,570
80	16,860	*15,960	17,060	*11,640	*14,440	*9,230	*12,360	*7,710	75	18,230	*17,040	18,450	*12,380	*16,110	*9,830	*13,800	*8,200
85	15,520	*15,450	15,710	*11,260	*13,640	*8,920	*11,660	*7,420	80	16,680	*16,460	16,880	*11,940	*15,160	*9,470	*12,960	*7,890
90	14,320	14,570	14,500	*10,910	*12,910	*8,610	*11,040	*7,160	85	15,340	15,650	15,520	*11,570	*14,350	*9,140	*12,230	*7,580
95	13,220	13,420	13,380	*10,580	*12,230	*8,330	*10,420	*6,900	90	14,150	14,440	14,320	*11,220	*13,600	*8,840	*11,590	*7,310
100	12,270		12,450	*10,310	*11,660	*8,090	*9,920	*6,670	95	13,020	13,270	13,200	*10,890	*12,890	*8,550	*10,950	*7,050
105	11,460		11,590		*11,150	*7,870	*9,450	*6,450	100	12,100	12,320	12,250	*10,600	*12,300	*8,310	*10,420	*6,830
110	10,690		10,840		*10,670	*7,690	*9,030	*6,280	105	11,260		11,410	*10,330	11,530	*8,090	*9,940	*6,630
115	9,980		10,110		*10,200		*8,610	*6,100	110	10,510		10,640	*10,110	10,780	*7,890	*9,500	*6,430
120			9,470		9,590		*8,280	*5,950	115	9,780		9,920		10,030	*7,690	*9,080	*6,260
125			*8,860				9,010	*7,950	120	9,170		9,300		9,390		*8,700	*6,100
130							8,480	*7,670	125	*8,420		8,730		8,810		*8,370	*5,970
135						*7,800		*7,400	130			8,200		8,280		*8,060	
140								*7,140	135			*7,420		7,800		*7,780	
145								*6,810	140					7,380		*7,380	
									145							6,960	
									150							*6,370	

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CK1000 Jib Lifting Capacity

LIFT CRANE SERVICE

Refer to notes page 4.

160 ft Boom						170 ft Boom											
Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle		Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
45	*24,000								40								
50	*24,000				*24,000				45	*24,000							
55	*24,000	*21,000	*24,000				*20,000	*18,000	50	*24,000		*24,000					
60	23,720	*21,000	*24,000	*15,120	*20,000		*18,000		55	*24,000	*21,000	*24,000		*20,000		*18,000	
65	21,180	*20,500	21,470	*14,590	*20,000	*11,400	*18,000		60	23,500	*21,000	23,800	*15,290	*20,000		*18,000	
70	19,040	19,730	19,310	*14,100	19,530	*11,060	*17,650	*9,140	65	20,940	*20,830	21,250	*14,770	*20,000		*18,000	
75	17,100	17,720	17,370	*13,640	17,570	*10,670	*16,570	*8,810	70	18,820	19,530	19,090	*14,300	19,310		*18,000	
80	15,540	16,090	17,580	*13,220	15,980	*10,330	*15,670	*8,530	75	16,880	17,520	17,150	*13,840	17,350	*10,800	*17,080	*8,900
85	14,190	14,680	14,410	*12,850	14,590	*10,030	14,700	*8,240	80	15,320	15,890	15,560	*14,320	15,760	*10,490	15,890	*8,610
90	12,980	13,440	13,200	*12,500	13,350	*9,740	13,490	*8,000	85	13,950	14,480	14,170	*13,050	14,370	*10,180	14,500	*8,350
95	11,860	12,270	12,050	*12,140	12,210	*9,450	12,340	*7,760	90	12,740	13,240	12,960	*12,690	13,130	*9,890	13,270	*8,110
100	10,910	11,280	11,110	11,640	11,260	*9,210	11,370	*7,530	95	11,610	12,050	11,810	*12,360	11,190	*9,610	12,100	*7,870
105	10,070	10,400	10,250	10,730	10,400	*8,970	10,490	*7,310	100	10,670	11,080	10,860	11,440	11,020	*9,360	11,150	*7,640
110	9,300	9,610	9,470	9,920	9,610	*8,770	9,720	*7,140	105	9,810	10,200	10,000	10,530	10,160	*9,120	10,270	*7,450
115	8,550	8,840	8,730	9,120	8,860	*8,550	8,970	*6,940	110	9,060	9,390	9,230	9,720	9,390	*8,900	9,470	*7,250
120	7,930	8,200	8,090	8,460	8,220	*8,350	8,310	*6,790	115	8,310	8,610	8,480	8,920	8,610	*8,680	8,730	*7,050
125	7,360	7,580	7,510	7,840	7,620	8,090	7,730	*6,610	120	7,670	7,980	7,840	8,240	7,980	8,500	8,090	*6,900
130	6,830	7,030	6,960	7,270	7,090	7,510	7,180	*6,480	125	7,090	7,360	7,270	7,640	7,400	7,890	7,490	*6,740
135	6,320		6,480	6,760	6,590	6,980	6,670	*6,340	130	6,560	6,810	6,720	7,070	6,850	7,310	6,940	*6,590
140	5,860		5,990	6,260	6,100	6,450	6,190	*6,210	135	6,080	6,300	6,230	6,540	6,340	6,760	6,450	*6,450
145	*5,310		5,570		5,680	5,990	5,770	*6,080	140	5,590		5,750	6,040	5,860	6,260	5,950	*6,300
150	*4,760		*5,090		5,290	5,570	5,370	5,750	145	*5,040		*5,290	5,590	5,440	5,790	5,530	5,970
155	*4,230		*4,580		*4,800		*4,960	5,350	150	*4,540		*4,780		*4,960	5,370	*5,070	5,550
160	*3,680		*4,050		*4,320		*4,490	4,960	155	*4,030		*4,320		*4,490	*4,930	*4,620	5,150
165	*3,170		*3,590		*3,880		*4,050		160	*3,520		*3,810		*4,030		*4,160	*4,670
170			*3,100		*3,430		*3,650		165	*3,040		*3,370		*3,610		*3,760	*4,250
									170					*3,190		*3,370	
									175								

180 ft Boom						190 ft Boom											
Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle		Load Radius (ft)	30 ft Jib Offset Angle		40 ft Jib Offset Angle		50 ft Jib Offset Angle		60 ft Jib Offset Angle	
	10°	30°	10°	30°	10°	30°	10°	30°		10°	30°	10°	30°	10°	30°	10°	30°
32	*24,000								45								
34	*24,000								50	*19,440							
36	*24,000				*24,000				55	*19,020			*18,950				
38	*24,000				*24,000				60	*18,620	*18,250	*18,560		*18,470		*18,000	
40	*24,000		*24,000				*20,000		65	*18,250	*17,870	*18,160	*15,100	*18,070		*17,960	
45	*24,000	*21,000	*24,000				*20,000	18,000	70	*17,870	*17,520	*17,810	*14,660	*17,700		*17,590	
50	*24,000	*20,650	*24,000	*15,100	*20,000		18,000		75	16,420	17,150	16,710	*14,190	16,930	*11,040	17,080	
55	*24,000	*19,570	*24,000	*14,320	*20,000	*11,500	*17,720		80	14,850	15,520	15,120	*13,800	15,320	*10,730	15,470	*8,790
60	*24,000	*18,690	*23,280	*13,660	*18,930	*10,950	*16,350		85	13,490	14,080	13,730	*13,420	13,930	*10,420	14,060	*8,550
65	22,440	*17,900	*21,620	*13,090	*17,590	*10,470	*15,160	*8,810	90	12,270	12,850	12,520	*13,090	12,690	*10,160	12,830	*8,310
70	20,320	*17,190	*20,190	*12,560	*16,420	*10,030	*14,130	*8,420	95	11,150	11,660	11,370	12,050	11,550	*9,870	11,680	*8,060
75	18,400	*16,510	18,620	*12,050	*15,340	*9,610	*13,160	*8,040	100	10,200	10,670	10,420	11,040	10,580	*9,630	10,710	*7,840
80	16,860	*15,960	17,060	*11,640	*14,440	*9,230	*12,360	*7,710	105	9,340	9,780	9,540	10,140	9,720	*9,410	9,830	*7,640
85	15,520	*15,450	15,710	*11,260	*13,640	*8,920	*11,660	*7,420	110	8,570	8,970	8,770	9,320	8,920	*9,190	9,030	*7,450
90	14,320	14,570	14,500	*10,910	*12,910	*8,610	*11,040	*7,160	115	7,840	8,200	8,020	8,530	8,170	8,810	*8,260	*7,270
95	13,220	13,420	13,380	*10,580	*12,230	*8,330	*10,420	*6,900	120	7,200	7,530	7,380	7,840	7,510	8,130	*7,580	*7,090
100	12,270		12,450	*10,310	*11,660	*8,090	*9,920	*6,670	125	6,630	6,940	6,790	7,230	*6,900	7,490	*6,940	*6,940
105	11,460		11,590		*11,150	*7,870	*9,450	*6,450	130	*6,040	6,370	*6,190	6,650	*6,300	*6,870	*6,370	*6,790
110	10,690		10,840		*10,670	*7,690	*9,030	*6,280	135	*5,460	*5,790	*5,640	*6,080	*5,750	*6,300	*5,820	*6,480
115	9,980		10,110		*10,200		*8,610	*6,100	140	*4,890	*5,220	*5,070	*5,510	*5,200	*5,730	*5,260	*5,900
120			9,470		9,590		*8,280	*5,950	145	*4,380	*4,690	*4,580	*4,980	*4,710	*5,220	*4,780	*5,400
125			*8,860				9,010	*7,950	150	*3,920	*4,210	*4,120	*4,490	*4,250	*4,730	*4,340	*4,930
130							8,480	*7,670	155	*3,460		*3,680	*4,030	*3,810	*4,290	*3,900	*4,470
135							*7,800	*7,400	160					*3,370	*3,830	*3,480	*4,030
140								*7,140	165						*3,410	*3,080	*3,610
145								*6,810	170								*3,240



CLAMSHELL

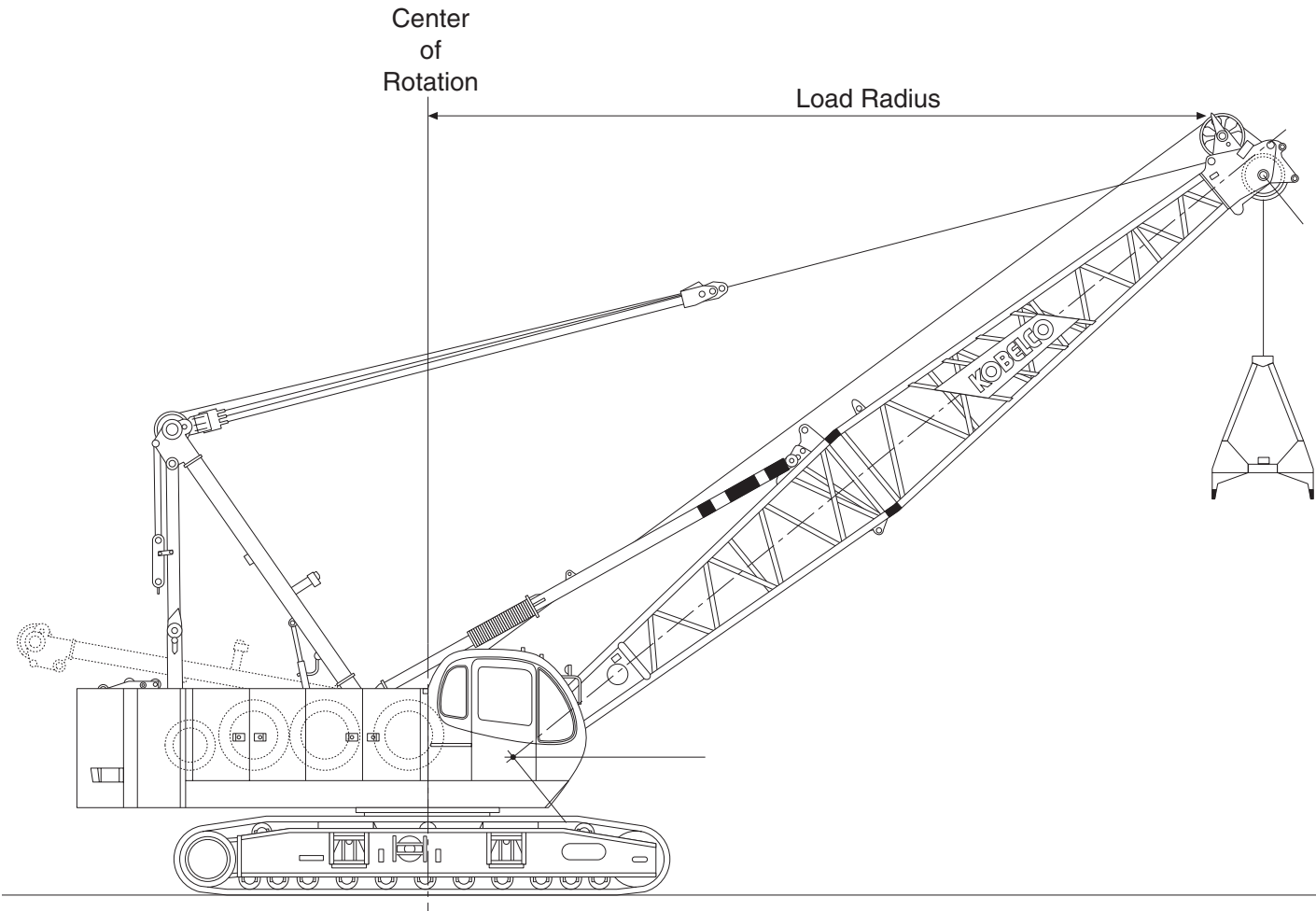
Boom:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between sections.
Basic boom length: 40 ft (12.2 m)
Max. boom length: 100 ft (30.5 m)
Limit on clamshell bucket weight: 4,600 lb (2,100 kg)
Optional tagline: hydraulic operated type and spring type

Boom Component Chart

Boom length ft (m)	Boom arrangement
40 (12.2)	Base-Tip
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip
80 (24.4)	Base-A-A-B-Tip, Base-B-B-Tip
90 (27.4)	Base-A-C-Tip
100 (30.5)	Base-A-A-C-Tip

Base = 20 ft (6.10 m)
Insert: A = 10 ft (3.05 m)
 B = 20 ft (6.10 m)
 C = 40 ft (12.2 m)
Tip = 20 ft (6.10 m)



- 1. Figures represent maximum allowable capacity, and assume level, ground and ideal working conditions.
- 2. Capacities are calculated at 66% of the minimum tipping loads.
- 3. Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a soft or uneven supporting surface, rapid cycle operations, or bucket suction.
- 4. The combined weight of the bucket and load must not exceed these capacities.
- 5. Boom length for clamshell operation should not exceed 100 ft (30.5 m).



■ Rated Load

No. of Counterweight: 1 Position of Crawlers: Extended

Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Rated Load (lbs)	Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Rated Load (lbs)
40	22	63.7	*22,000	50	26	64.3	*22,000
	24	60.5	*22,000		28	61.7	*22,000
	26	57.1	*22,000		30	59.7	*22,000
	28	53.5	*22,000		32	56.3	*22,000
	30	49.8	*22,000		34	53.5	*21,400
	32	45.9	*22,000		36	50.5	*20,200
	34	41.7	*21,400		38	47.4	*19,200
	36	37.0	*20,200		40	44.2	*18,200
	38	31.8	*19,200		42	40.7	*17,300
	40	25.7	*18,200		44	37.0	*16,500
					46	32.9	*15,800
					48	28.3	*15,200
60	30	64.6	*22,000	70	34	64.9	*21,400
	32	62.5	*22,000		36	63.1	*20,200
	34	60.3	*21,400		38	61.2	*19,200
	36	58.1	*20,200		40	59.3	*18,200
	38	55.8	*19,200		42	57.4	*17,300
	40	53.4	*18,200		44	55.4	*16,500
	42	51.0	*17,300		46	53.4	*15,800
	44	48.4	*16,500		48	51.3	*15,200
	46	45.8	*15,800		50	49.1	*14,600
	48	43.0	*15,200		52	46.9	*14,600
	50	40.1	*14,600		54	44.6	*13,500
	52	37.0	*14,000		56	42.2	*13,000
	54	33.6	*13,500		58	39.6	*12,500
	56	29.9	*13,000		60	37.0	*12,100
	58	25.7	*12,500		62	34.1	*11,700
					64	31.0	*11,400
					66	27.6	*11,000



■ Rated Load

No. of Counterweight: 1 Position of Crawlers: Extended

Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Rated Load (lbs)	Boom Length (ft)	Load Radius (ft)	Boom Angle (degree)	Rated Load (lbs)
80	38	65.1	*19,200	90	42	65.2	*17,300
	40	63.5	*18,200		44	63.8	*16,500
	42	61.9	*17,300		46	62.4	*15,800
	44	60.2	*16,500		48	60.9	*15,200
	46	58.6	*15,800		50	59.5	*14,600
	48	56.9	*15,200		52	58.0	*14,000
	50	55.1	*14,600		54	56.4	*13,500
	52	53.3	*14,600		56	54.9	*13,900
	54	51.5	*13,500		58	53.3	*12,500
	56	49.6	*13,000		60	51.7	*12,100
	58	47.7	*12,500		62	50.0	*11,700
	60	45.7	*12,100		64	48.3	*11,400
	62	43.7	*11,700		66	46.6	*11,000
	64	41.5	*11,400		68	46.6	*10,700
	66	39.3	*11,000		70	43.8	*10,400
	68	37.0	*10,700		72	41.0	*10,100
	70	34.5	*10,400		74	39.0	9,700
	72	31.8	*10,100		76	36.9	9,200
100	74	28.9	*9,800		78	34.7	9,000
	76	25.7	*9,400		80	32.4	8,500
					82	29.9	8,300
					84	27.2	7,900
	46	65.4	*15,800				
	48	64.1	*15,200				
	50	62.8	*14,600				
	52	61.5	*14,000				
	54	60.2	*13,500				
	56	58.8	*13,000				
	58	57.5	*12,500				
	60	56.1	*12,100				
	64	53.3	*11,400				
	66	51.8	*11,000				
	68	50.4	*10,700				
	70	48.8	10,300				
	72	47.3	9,900				
	74	45.7	9,400				
	76	44.1	9,000				
	78	42.4	8,800				
	80	40.6	8,300				
	82	38.8	8,100				
	84	36.9	7,700				
	86	35.0	7,400				
	88	32.9	7,200				
	90	30.7	7,000				
	92	28.3	6,800				
	94	25.8	6,600				



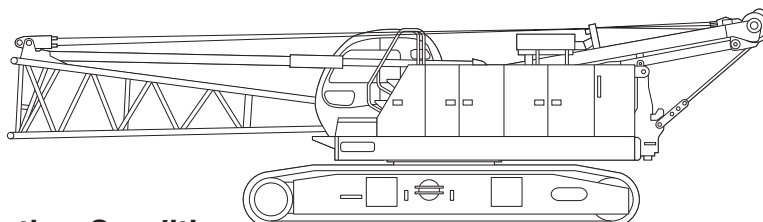
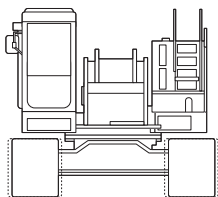
TRANSPORTATION

■CK1000 Transportation Style 1

Base Machine, Boom Base with Crawlers

Weight: 99,770 lbs (45,250 kg)

Dimensions: 11' 4" height × 11' 10" width × 39' 11" length (3,450 mm × 3,610 mm × 12,170 mm)

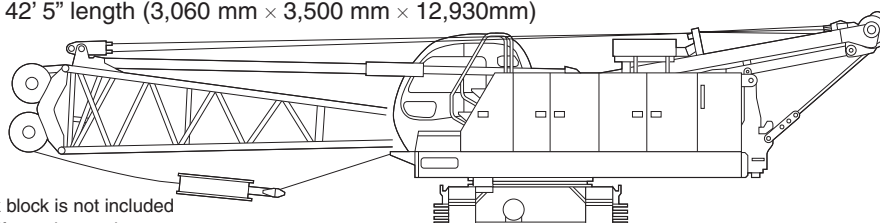
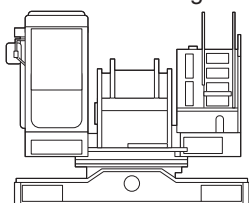


■CK1000 Transportation Style 2 Self-Erecting Condition

Base Machine, Boom Base without Crawlers

Weight: 71,100 lbs (32,250 kg)

Dimensions: 10' 0" height × 11' 6" width × 42' 5" length (3,060 mm × 3,500 mm × 12,930 mm)



Hook block is not included in self-erecting package

■CK1000 Transportation Style 3

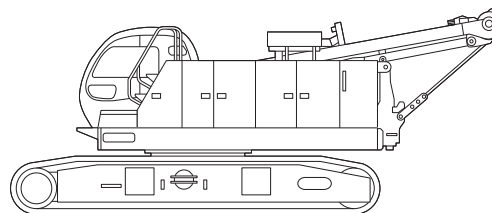
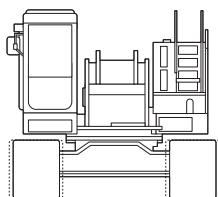
Base Machine with Crawlers

Weight:

96,780 lbs (43,900 kg)

Dimensions:

11' 4" height × 11' 10" width × 27' 7" length (3,450 mm × 3,610 mm × 8,410 mm)



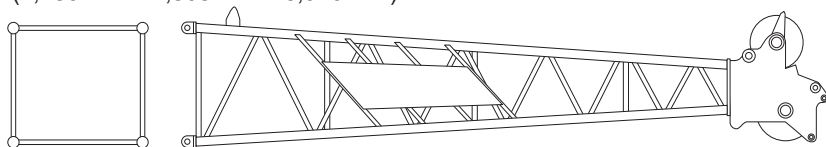
■Booms

Boom Tip:

2,580 lbs (1,170 kg)

4' 10" height × 4' 11" width × 22' 8" length

(1,480 mm × 1,505 mm × 6,910 mm)

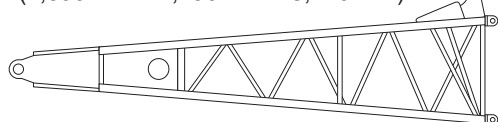


Boom Base:

2,510 lbs (1,140 kg)

5' 7" height × 4' 11" width × 19' 7" length

(1,690 mm × 1,490 mm × 5,170 mm)



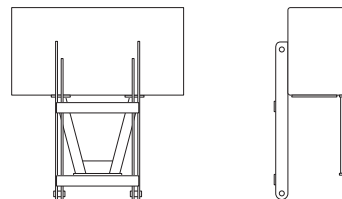
■Carbody Counterweights

Carbody Counterweights:

4,410 lbs (2,000 kg) × 2

1' 11" height × 4' 3" width × 4' 9" length

(590 mm × 1,300 mm × 1,450 mm)



■Counterweights

Counterweight (A)

Weight: 27,300 lbs (12,400 kg)

5' 6" height × 1' 11" width × 11' 10" length

(1,670 mm × 570 mm × 3,600 mm)

Counterweight (B)

Weight: 8,160 lbs (3,700 kg)

Dimensions: 5' 6" height × 1' width × 11' 10" length

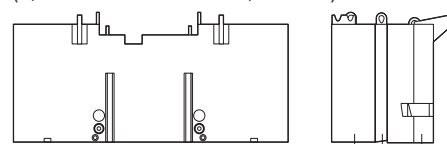
(1,660 mm × 300 mm × 3,600 mm)

Counterweight (C)

Weight: 27,560 lbs (12,500 kg)

Dimensions: 5' 4" height × 3' width × 11' 10" length

(1,640 mm × 910 mm × 3,600 mm)



(A) (B) (C)

■Other Attachments

Attachment	Weights	Dimensions (H × W × L)
10ft Insert Boom:	680 lbs (310 kg)	4' 3" × 4' 11" × 10' 5" (1,290 mm × 1,490 mm × 3,165 mm)
20ft Insert Boom:	1,150 lbs (520 kg)	4' 3" × 4' 11" × 20' 4" (1,290 mm × 1,490 mm × 6,210 mm)
40ft Insert Boom:	2,120 lbs (960 kg)	4' 3" × 4' 11" × 40' 4" (1,290 mm × 1,490 mm × 12,305 mm)
Jib Tip:	620 lbs (280 kg)	2' 7" × 2' 7" × 16' 3" (790 mm × 790 mm × 4,960 mm)
Jib Base:	440 lbs (200 kg)	2' 7" × 2' 7" × 15' 9" (790 mm × 790 mm × 4,810 mm)
10ft Insert Jib:	220 lbs (100 kg)	2' 7" × 2' 7" × 10' 3" (790 mm × 790 mm × 3,120 mm)
20ft Insert Jib:	400 lbs (180 kg)	2' 7" × 2' 7" × 20' 3" (790 mm × 790 mm × 6,160 mm)
Jib Strut	550 lbs (250 kg)	2' 2" × 2' 9" × 11' 11" (620 mm × 840 mm × 3,620 mm)
Upper Spreader:	600 lbs (270 kg)	2' 3" × 10.6" × 5' 2" (680 mm × 270 mm × 1,580 mm)



CK1000

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

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