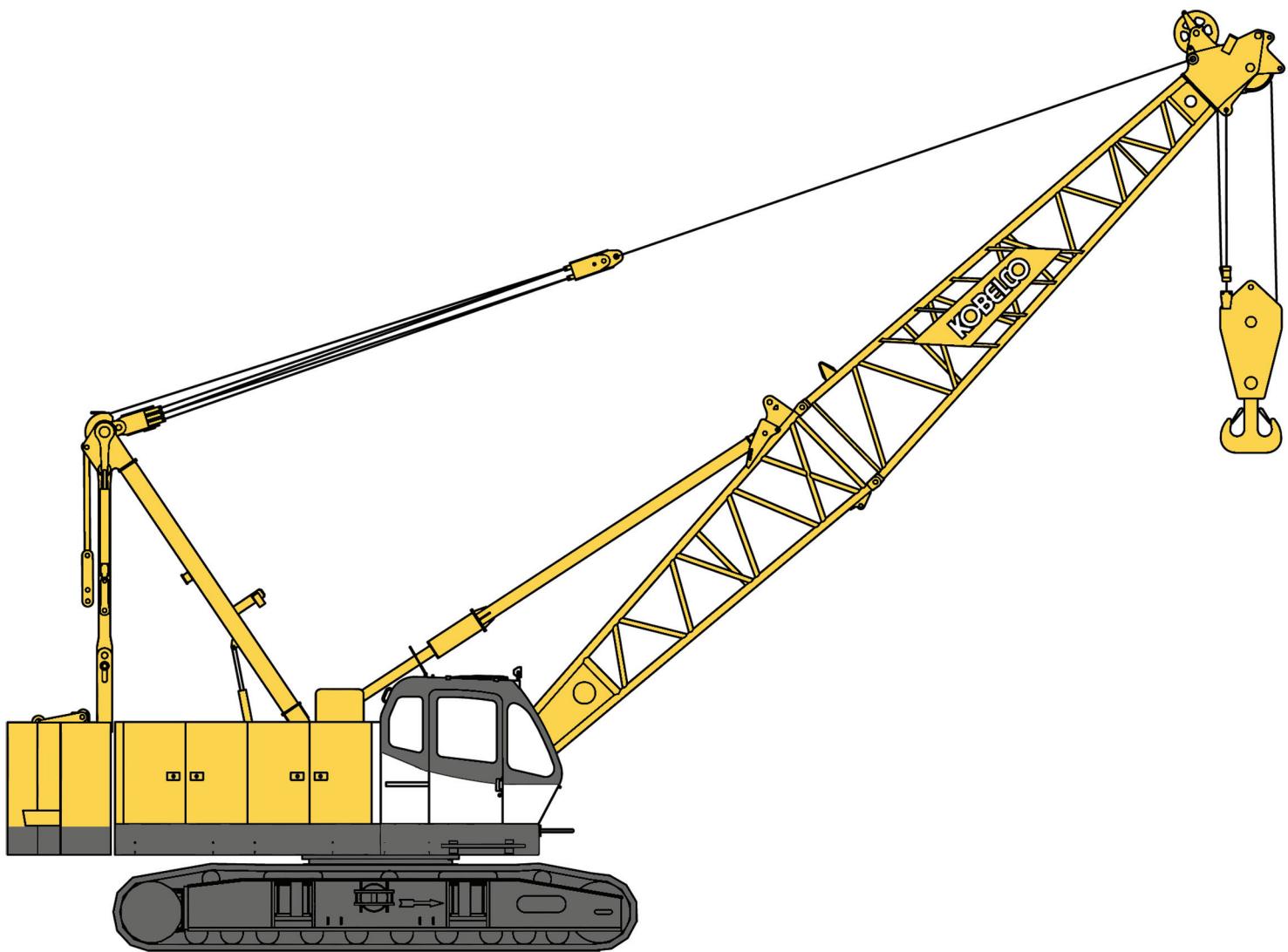


KOBELCO

CK850-III

HYDRAULIC CRAWLER CRANE



Max. Lift Capacity: 85 US Tons

Max. Boom Length: 200 ft

Max. Boom + Jib Length: 180 ft + 60 ft

SPECIFICATIONS FOR CK850-III CRAWLER CRANE

The Kobelco CK850-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	170,000 lbs (77,100 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	180' + 60' (54.9 m + 18.3 m)
Working weight	Approx. 162,700 lbs (73,800 kg)
Ground bearing pressure	Approx. 11.2 psi (77.1 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' 10" (3.3 m)
Width of upper machine with operator's cab	10' 6" (3.20 m)
Radius of rear end (counterweight)	14' 1" (4.28 m)
Counterweight ground clearance	3' 7" (1.10 m)
Center of rotation to boom foot pin	3' 7" (1.10 m)
Height from ground to boom foot pin	5' 9" (1.75 m)
Height over gantry (raised)	20' 3" (6.18 m)
Overall length of crawler	19' 8" (5.99 m)
Center to center of tumblers	16' 10" (5.13 m)
Overall width of crawlers	16' 3" (4.94 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 J08E-TM (Comply with EPA "Tier 3")

No. of cylinders 6

Bore X stroke 4-13/32" X 5-1/8" (112 mm X 130 mm)

Cycles 4

Total displacement 469 cu.in (7,684 cm³)

Rated output SAE GROSS

213 HP / 2,000 rpm (159 kW / 2,000 min⁻¹)

Maximum torque

588 lbs-ft / 1,600 rpm (797 Nm / 1,600 min⁻¹)

Starter 24 Volts / 5.0 kW

Alternator 24 Volts / 60 Amp

Batteries

Two 12 volt, 150 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 spin off type cartridge.

Fuel filter Heavy duty with spin off type cartridge.

Approximate fuel consumption

0.342 lb / HP-hr (208 g / kW-hr)

10.53 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 (252 l/min x 2)

Swing

1 Piston pump (175 l/min)

Control system and auxiliary

2 Gear pumps (61 l/min x 40 l/min)

Brake cooling system

2 Gear pumps (73 l/min x 2)

Load hoist, boom hoist, and propel
2 Piston pumps, max flow rate 67 US gal./min x 2
(252 l/min x 2)

Swing
1 Piston pump, max flow rate 46 US gal./min
(175 l/min)

Control system and auxiliary
2 Gear pumps, max flow rate
16 US gal./min x 11 US gal. (61 l/min x 40 l/min)

Brake cooling system
2 Gear pumps, max flow rate 19 US gal./min x 2
(73 l/min x 2)

4.3 Counterweight and carbody weight

Counterweight (A) 1 x 27,340 lbs (12,400 kg)

Counterweight (B) 1 x 27,560 lbs (12,500 kg)

Total weight 54,900 lbs (24,900 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.

4.5 Operator's cab

Totally enclosed from weather, this full-vision cab has safety glass all around. The adjustable, high-backed seat with armrest is standard, allowing operators to customize the position. Auxiliary controls and instruments are on a side mounted console. A signal horn, windshield wipers, air conditioner are all standard features.

4.6 Controls

At operator's right are console-mounted adjustable levers for the front and rear drum and the boom hoist control. Beside the operator's seat on the right are two short levers for propel control, individual speed shifts for front drum, rear drum and boom drum. At the operator's left are the console mounted swing lever, knobs for front and rear drum, boom drum pawls, engine start / stop key. A swing brake control switch and signal horn button are on the swing lever.

4.7 Electric system

All wiring corded for easy serving, individual fused branch circuit.

4.8 Hydraulic system

Maximum pressure rating 4,620 psi (32.0 MPa)

Cooling Oil to air heat exchanger

Filtration

Full flow filters with replaceable paper elements

Reservoir capacity 116 US gal. (440 liters)

4.9 Boom hoist

Powered by hydraulic motor through planetary reducer.

Drum Single drum.

Grooved for 5/8" (16.0 mm) dia. wire rope.

Brake

A spring set, hydraulically-released, multiple-disc holding brake is mounted inside the boom hoist motor and is operated through a counter-balance valve. An external ratchet is fitted for locking the drum.

4.10 Front drum

Powered by hydraulic motor through planetary reducer.

Drum 21.7" (550 mm) P.C.D. X 21.5" (545 mm) LG.

Grooved for 7/8" (22 mm) dia. wire rope.

Brake

A spring set, hydraulically-released, multiple-disc holding brake is mounted inside the hoist motor and is operated through a counter-balance valve. An external ratchet is fitted for locking the drum.

Free-Fall (Standard)

Wet-type disk brake free-fall is mounted inside the drum.

4.11 Rear drum

Powered by hydraulic motor through planetary reducer.

Drum 21.7" (550 mm) P.C.D. X 21.5" (545 mm) LG.

Grooved for 7/8" (22 mm) dia. wire rope.

Brake

A spring set, hydraulically-released, multiple-disc holding brake is mounted inside the hoist motor and is operated through a counter-balance valve. An external ratchet is fitted for locking the drum.

Free-Fall (Standard)

Wet-type disk brake free-fall is mounted inside the drum.

4.12 Third drum (Optional)

Powered by hydraulic motor through planetary reducer.

Drum 21.7" (550 mm) P.C.D. X 21.5" (545 mm) LG.

Grooved for 7/8" (22.0 mm) dia. wire rope.

Brake

A spring set, hydraulically-released, multiple-disc holding brake is mounted inside the hoist motor and is operated through a counter-balance valve. An external ratchet is fitted for locking the drum.

Free-Fall (Standard for third drum)

Wet-type disk brake free-fall is mounted inside the drum.

4.13 Swing

Swing unit

Hydraulic motor driving through planetary reducer to output swing pinion for 360 degree rotation.

Swing brake

Spring set hydraulically released multiple disk brake mounted on swing motor.

Swing circle

Single row ball bearing with internal, integral swing gear.

Swing Lock 2 Position lock for transportation.

5. LOWER MACHINERY

5.1 Carbody

The durable carbody features steel welded construction with extendible axles.

5.2 Crawler

Crawler assemblies can be hydraulically extended for wide-track operation or retracted for transportation.

Crawler belt tension adjusted with hydraulic jack and maintained by shims between the idler block and frame.

5.3 Crawler drive

The independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor driving a propel sprocket through a planetary gear box. The hydraulic motor and gear box are built into the crawler side frame within the shoe width.

5.4 Crawler brakes

Spring set, hydraulically released, multiple disk-type parking brakes are built into each propel drive.

5.5 Steering mechanism

The hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite direction).

5.6 Crawler shoes

63 shoes, 36" (914 mm) wide each crawler.

5.7 Track rollers

The track rollers are sealed for maintenance-free operation.

6. CRANE ATTACHMENTS

6.1 Crane boom

The welded lattice construction uses tubular, high-tension steel chords with pin connections between sections.

Maximum boom length	200' (61.0 m)
Basic boom length	40' (12.2 m)
Boom base section	19' (5.8 m)
Boom tip section	21' (6.4 m)

6.2 Boom insert (Optional)

An optional boom inserts is available to provide extension capabilities. It also has welded lattice construction with tubular, high-tension steel chords and pin connections.

Boom insert 10' (3.1 m), 20' (6.1 m), 40' (12.2 m)

6.3 Jib (Optional)

The optional jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections.

Maximum jib length	60' (18.3 m)
Basic jib length	30' (9.1 m)
Jib base section	15' (4.6 m)
Jib tip section	16' (4.9 m)

Jib insert	10' (3.1 m), 20' (6.1 m)
Jib inserts	are available to provide extension capabilities.
They also have welded lattice construction with tubular, high-tension steel chords and pin connections.	
Jib is extendible on booms of 80' (24.4 m) through 180' (54.9 m)	

6.4 Auxiliary sheave (Optional)

Auxiliary sheave is extendible on booms of 40' (12.2 m) to 190' (57.9 m).

6.5 Boom hoist reeving

Twelve (12) parts of 5/8" (16.0 mm) dia. high strength wire rope.

6.6 Boom backstops

Telescopic type with spring bumper.

7. AUXILIARY EQUIPMENT

7.1 Lights

Two (2) Front flood lights
One (1) Cab inside light

7.2 Gauges and warning display

Gauges

One (1) Tachometer
One (1) Hour meter
One (1) Fuel gauge
One (1) Water temperature gauge for engine

Warning display

Battery charge
Engine oil pressure
Air cleaner
Engine oil filter
Control main pressure
Hydraulic oil temperature

7.3 Others

Air conditioner
Drum turn indicator (front and rear drum)
Foot acceleration pedal
Electric fuel pump
Counterweight self-removal device

8. SAFETY SERVICE

Function lock lever
Boom over hoist limit switch
Signal horn
Front and rear hoist drum lock
Swing alarm (buzzer and lamps)
Over load preventive device (Load Moment Indicator)
Hook over hoist shut off (Anti-two-block)
Boom angle indicator
Boom hoist drum lock
Swing lock

Boom backstops

9. TOOLS AND ACCESSORIES

A set of tools and accessories are furnished.

10. OPTIONAL EQUIPMENT

Hydraulic tagline

Travel kit

Third drum

Pillow plate for boom self-erection

Custom color

Catwalks

All specifications are subject to change without notice.

CK850-III Winch Performance Data

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Winch Performance Data

Line speed and line pull based on Hino J08E-TM-0N at 2,000 rpm.

Line speed and line pull based on single line. Line pull is not based on wire rope strength.

Front & Rear Drum

		Line speed (ft/min)							
		Layer	1	2	3	4	5	6	7
Line Pull (lbs)	0	394	420	446	472	499	525		
	5,000	394	420	446	472	499	525		
	10,000	353	353	353	353	353	353	storage	
	15,000	235	235	235	235	235	235		only
	17,000	208	208	208	208	208	208		
	20,100	177	177	177	177	179	182		
	25,000	141	146	148	149	149			
	32,000	115							
Storage Capacity (ft)		130	139	148	156	165	174	183	

Rated Line Pull = 17,000 lbs

Maximum Line Pull = 32,000 lbs

Total Storage Capacity = 1,095 ft

Third Drum (Optional)

		Line speed (ft/min)							
		Layer	1	2	3	4	5	6	7
Line Pull (lbs)	0	394	420	446	472	499	525		
	5,000	394	420	446	472	499	525		
	10,000	353	353	353	353	353	353	storage	
	15,000	235	235	235	235	235	235		only
	17,000	208	208	208	208	208	208		
	20,100	177	177	177	177	179	182		
	25,000	141	146	148	149	149			
	32,000	115							
Storage Capacity (ft)		130	139	148	156	165	174	183	

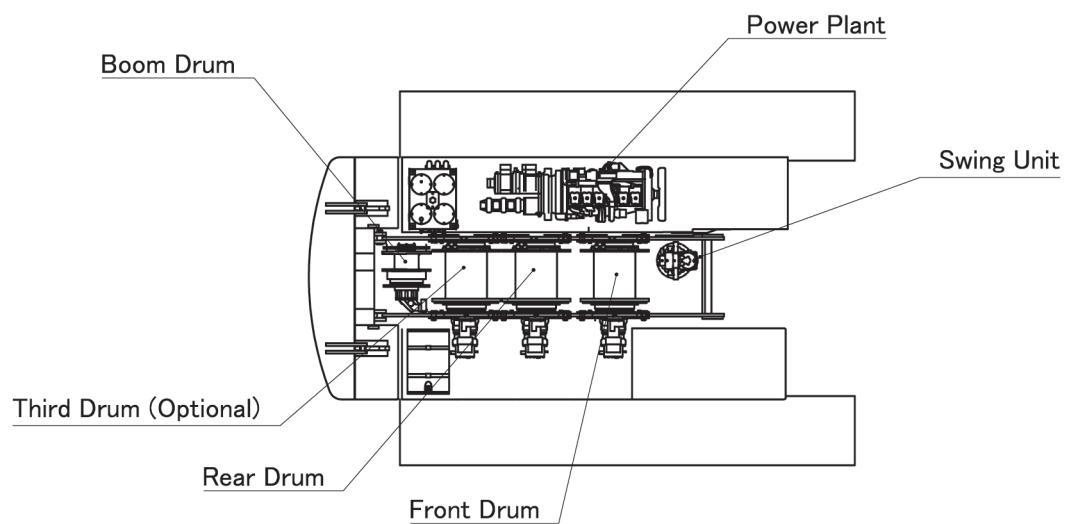
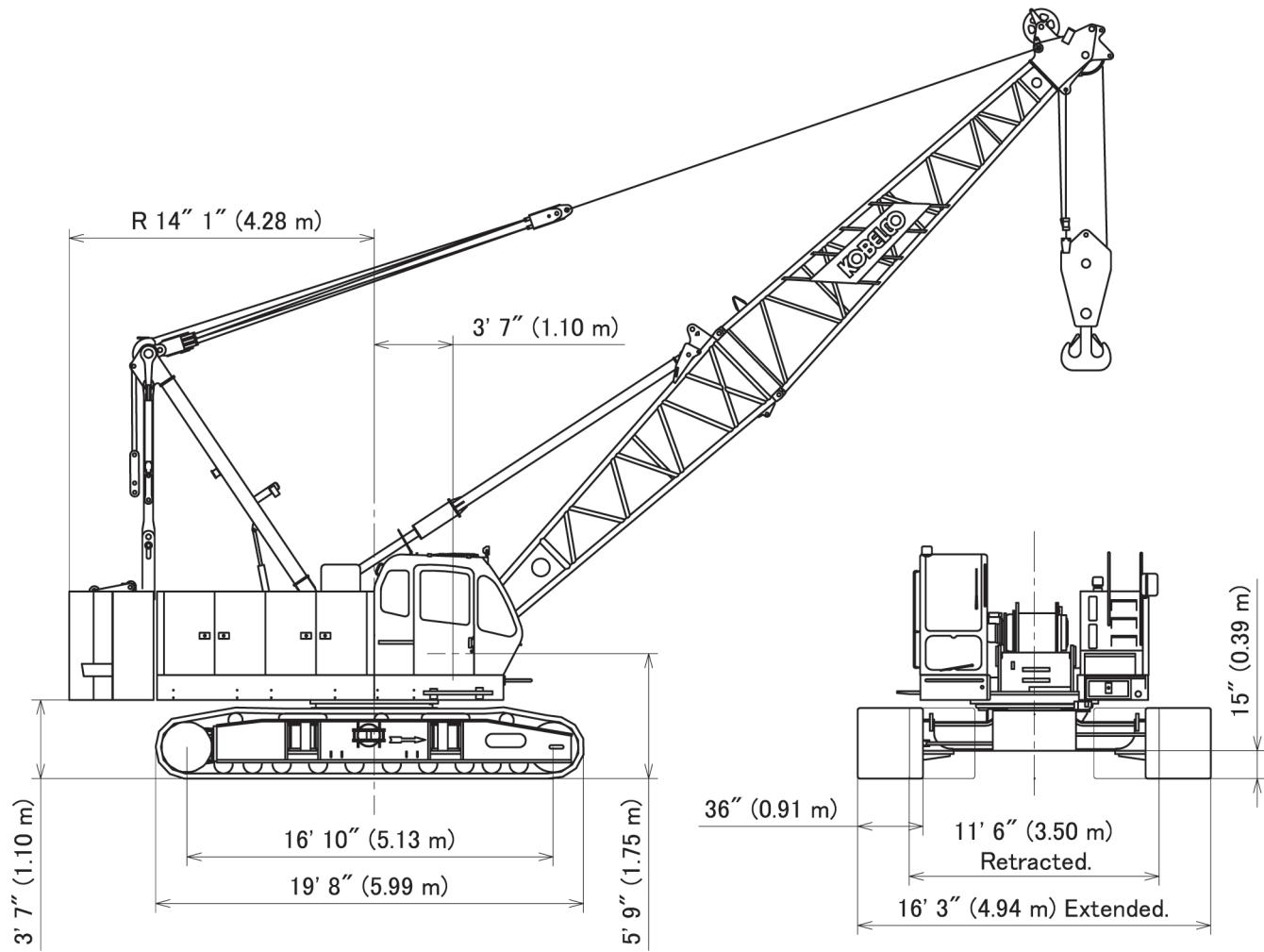
Rated Line Pull = 17,000 lbs

Maximum Line Pull = 32,000 lbs

Total Storage Capacity = 1,095 ft

Wire Rope Specifications

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	6 x 25 Filler IWRC Right hand lay, Regular lay	0.887" to 0.904" (22.54 mm to 22.97 mm)	869' (265 m)	3.5: 1	59,500 lbs (26,990 kg)
Rear drum	6 x 25 Filler IWRC Right hand lay, Regular lay	0.887" to 0.904" (22.54 mm to 22.97 mm)	673' (205 m)	3.5: 1	59,500 lbs (26,990 kg)
Third drum (Optional)	6 x 25 Filler IWRC Right hand lay, Regular lay	0.887" to 0.904" (22.54 mm to 22.97 mm)	869' (265 m)	3.5: 1	59,500 lbs (26,990 kg)
Boom drum	6 x 31 Warrington seal Right hand lay, Regular lay	0.639" to 0.653" (16.24 mm to 16.58 mm)	492' (150 m)	3.5: 1	47,180 lbs (21,400 kg)



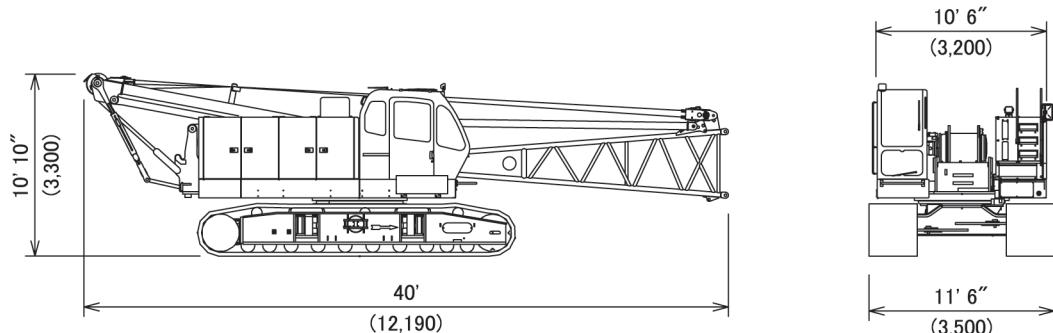
CK850-III Dimensions and Weight

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Base Machine -1

Weight: 89,980 lbs (40,820 kg)

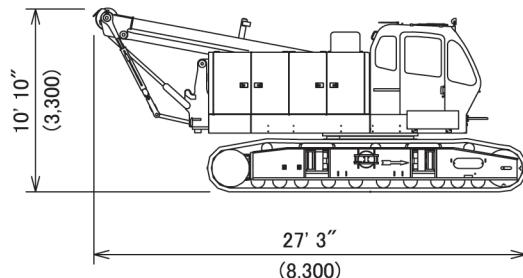
Gantry, Crawler, Wire ropes (Front, Rear and Boom hoist drums)



Base Machine -2

Weight: 85,350 lbs (38,700 kg)

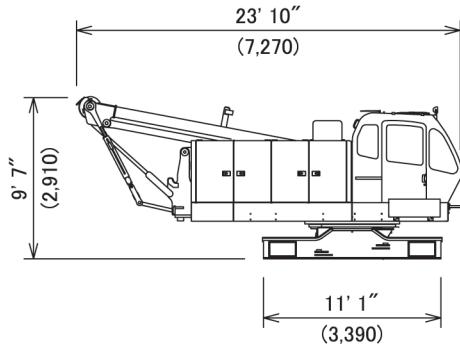
Gantry, Crawler, Wire ropes (Front, Rear and Boom hoist drums)



Base Machine -3

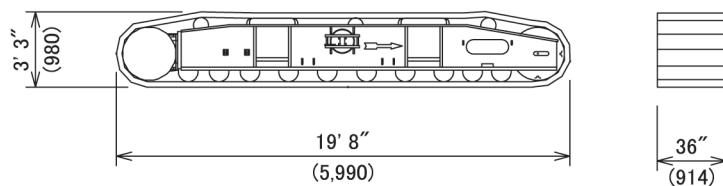
Weight: 52,500 lbs (23,800 kg)

Gantry, Wire ropes (Front, Rear and Boom hoist drums)



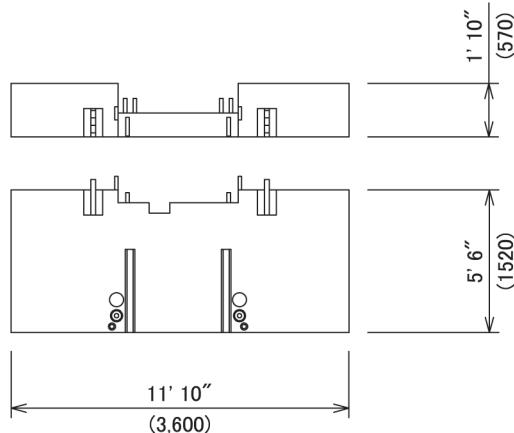
Crawler

Weight: 16,320 lbs (7,400 kg)



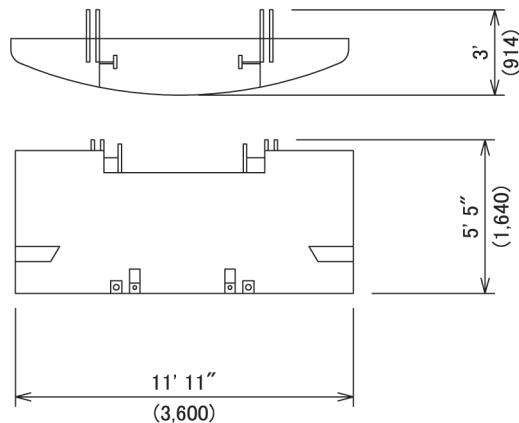
Counterweight (A)

Weight: 27,340 lbs (12,400 kg)



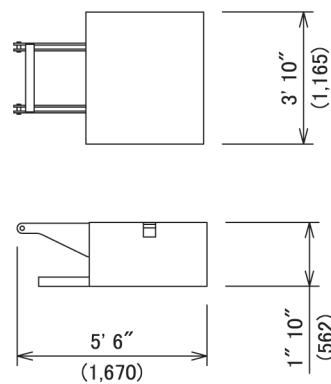
Counterweight (B)

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



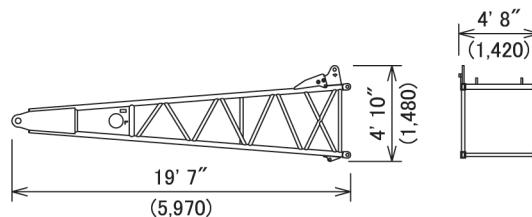
Carbody Weight

Weight: 7,360 lbs (3,340 kg)



Boom Base

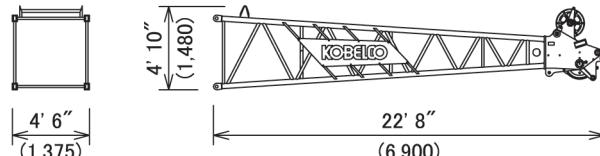
Weight: 2,230 lbs (1,010 kg)



Boom Tip

Weight: 2,380 lbs (1,080 kg)

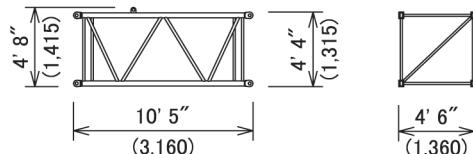
Includes cable roller and guy lines.



10 ft (3.0 m) Insert Boom

Weight: 750 lbs (340 kg)

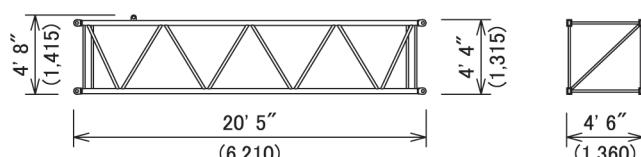
Includes cable roller and guy lines.



20 ft (6.1 m) Insert Boom

Weight: 1,230 lbs (560 kg)

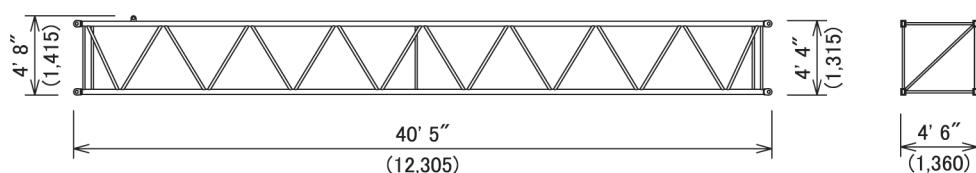
Includes cable roller and guy lines.



40 ft (12.2 m) Insert Boom

Weight: 2,190 lbs (990 kg)

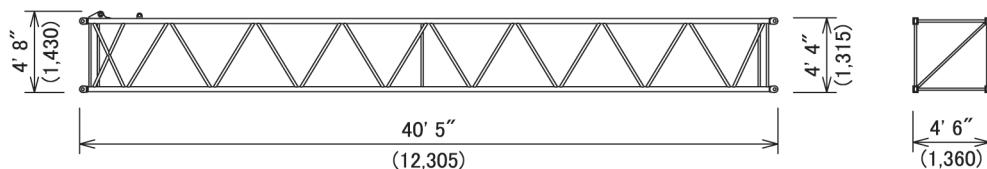
Includes cable roller and guy lines.



40 ft (12.2 m) Insert Boom (with lug)

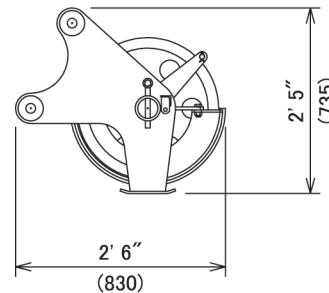
Weight: 2,220 lbs (1,010 kg)

Includes cable roller and guy lines.



Auxiliary Sheave

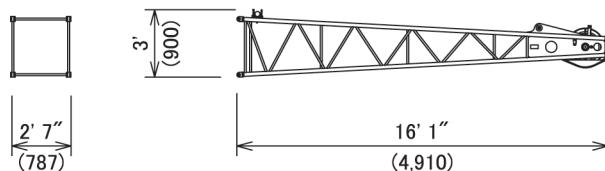
Weight: 320 lbs (145 kg)



Jib Tip

Weight: 620 lbs (280 kg)

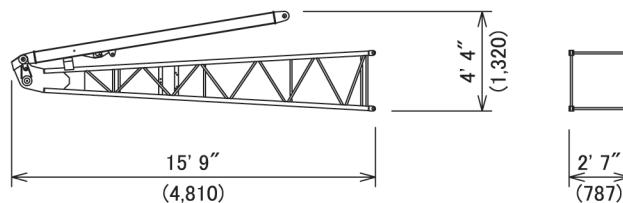
Includes cable roller.



Jib Base and Strut

Weight: 1,210 lbs (550 kg)

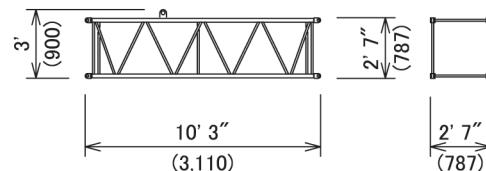
Includes guy line.



10 ft (3.0 m) Insert Jib

Weight: 290 lbs (130 kg)

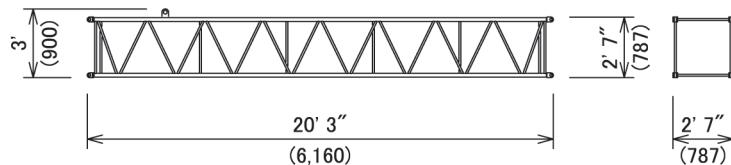
Includes cable roller and guy line.



20 ft (6.1 m) Jib Insert

Weight: 490 lbs (220 kg)

Includes cable roller and guy line.



CK850-III Transportation Plan

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Shipping plan for 200 ft Boom and 60 ft Jib

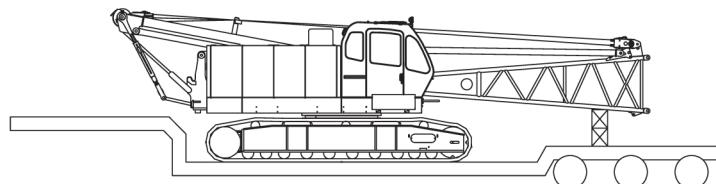
Description of Item	Weight		Trailer Loads			
	lbs	(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	89,980	(40,820)	1			
Counterweight (A)	27,340	(12,400)		1		
Counterweight (B)	27,560	(12,500)			1	
Carbody Weight	7,360	(3,340)		1	1	
10 ft Insert Boom and Guy Line	750	(340)		1	1	
20 ft Inser Boom and Guy Line	1,230	(560)				1
40 ft Insert Boom and Guy Line	2,190	(990)		1	1	
40 ft Insert Boom (w/ Lug) and Guy Line	2,220	(1,010)				1
Boom Tip and Guy Line	2,380	(1,080)				1
Jib Base and Guy Line	1,210	(550)		1		
10 ft Inser Jib and Guy Line	290	(130)		1		
20 ft Insert Jib and Guy Line	490	(220)		1		
Jib Tip	620	(280)		1		
Approx. Total Shipping Weight	lbs (kg)	89,980 (40,820)	40,250 (18,250)	37,860 (17,170)	5,830 (2,650)	

* Third drum is not included.

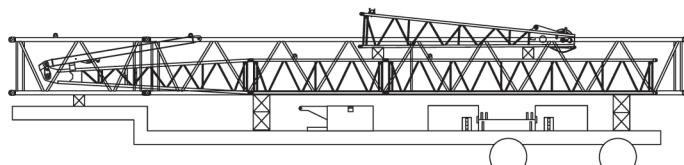
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground.

This may vary depending on truck/trailer weight, style of trailer and state low.

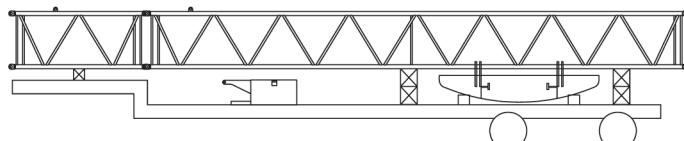
Trailer #1



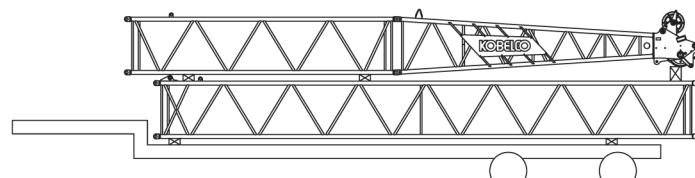
Trailer #2



Trailer #3

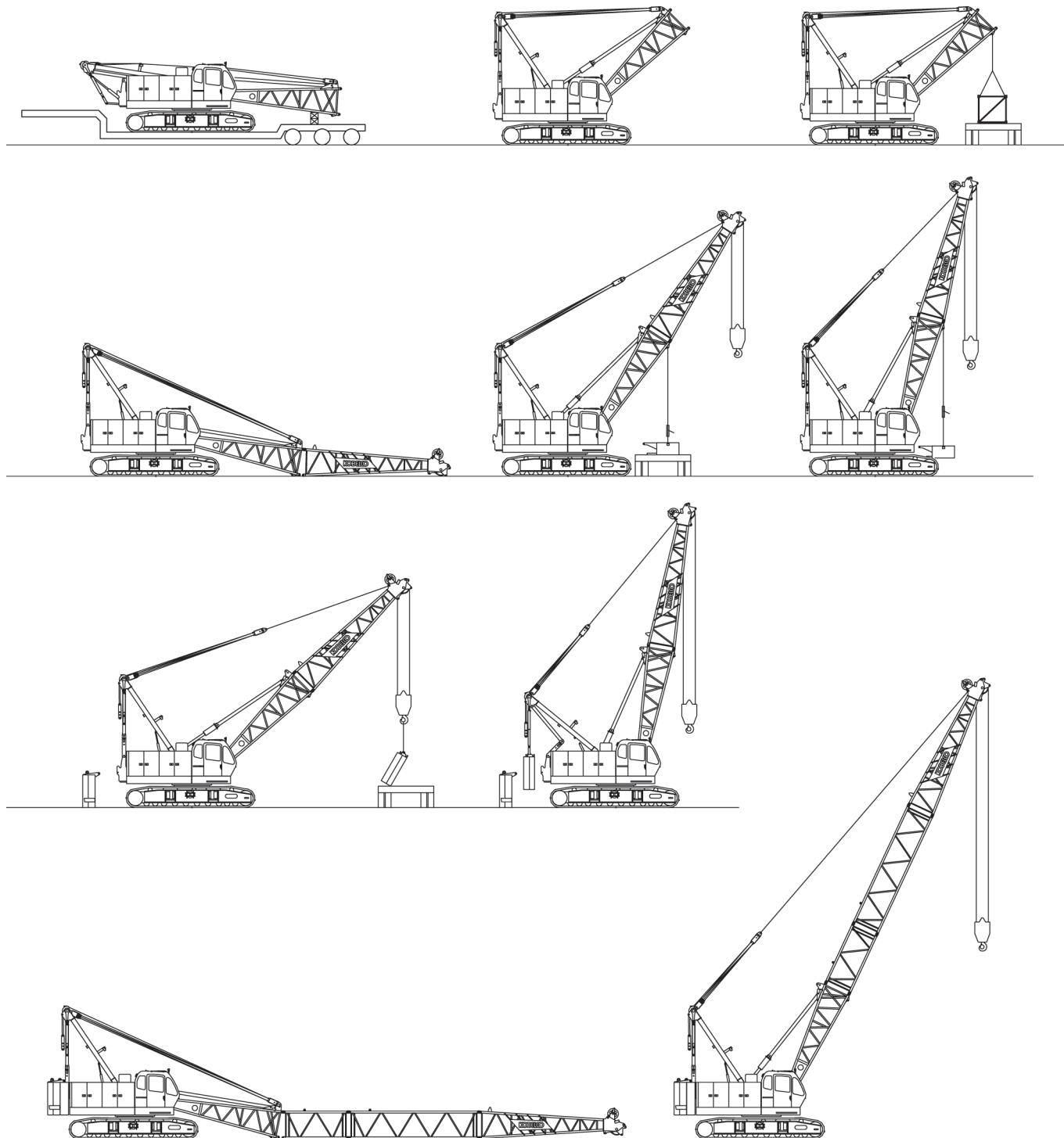


Trailer #4



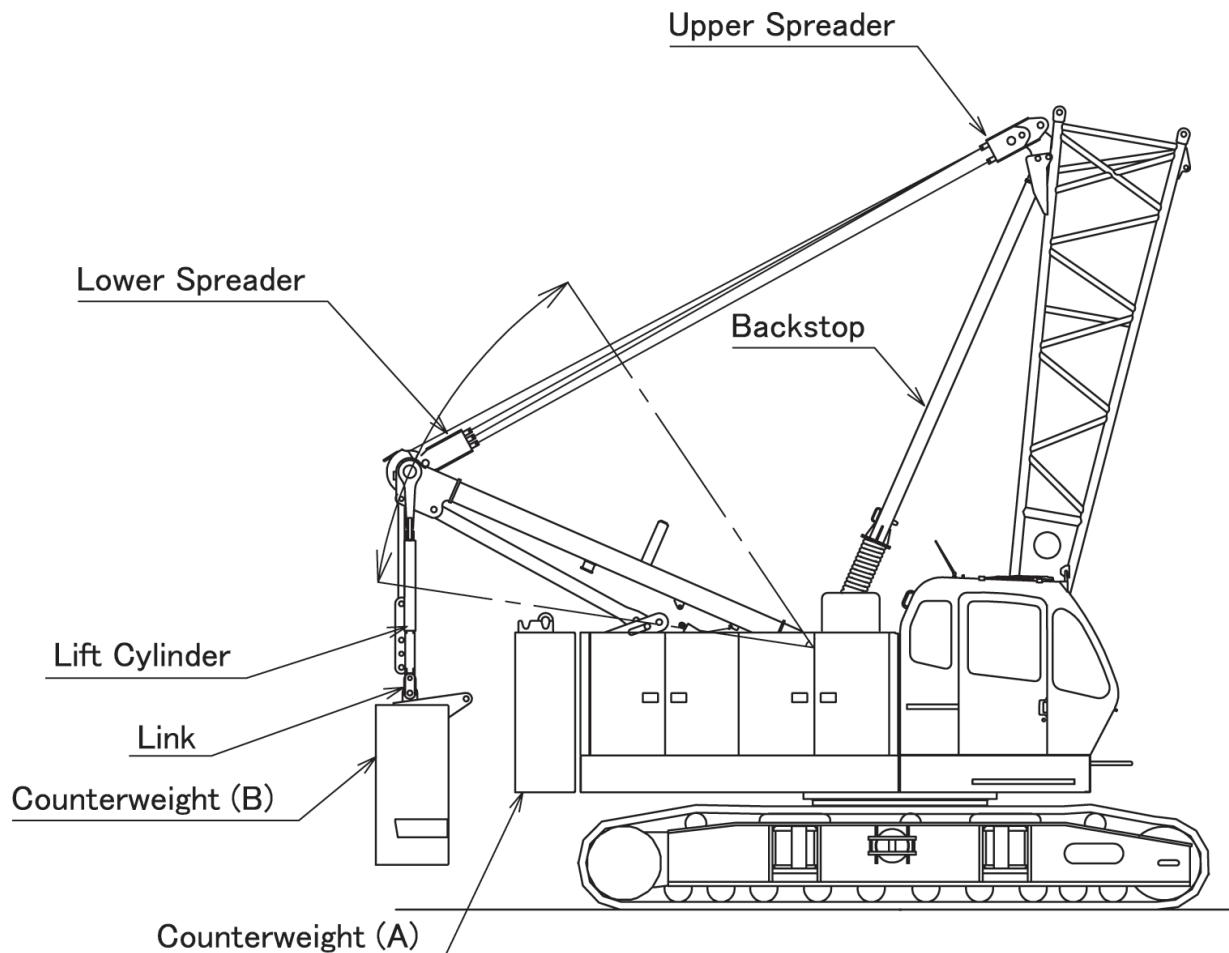
CK850-III Self Assembly Procedure

KOBELCO



CK850-III Counterweight Self-Removal Device KOBELCO

(Standard equipment)



CK850-III Boom and Jib Arrangement

KOBELCO

Boom Arrangement

Boom	Insert Boom				Aux. Sheave	Fixed Jib
	10 ft	20 ft	40ft (40)	40 ft (40A)		
40 ft	—	—	—	—	Y1	
50 ft	1	—	—	—	Y1	
60 ft	2	—	—	—	Y1	
70 ft	1	1	—	—	Y1	
80 ft	2	1	—	—	Y1	
	—	—	—	1	Y1	Y2
90 ft	1	2	—	—	Y1	
	1	—	—	1	Y1	Y2
100 ft	2	2	—	—	Y1	
	2	—	—	1	Y1	Y2
110 ft	1	1	—	1	Y1	Y2
120 ft	2	1	—	1	Y1	Y2
130 ft	1	2	—	1	Y1	Y2
140 ft	2	2	—	1	Y1	Y2
150 ft	1	1	1	1	Y1	Y2
160 ft	2	1	1	1	Y1	Y2
170 ft	1	2	1	1	Y1	Y2
180 ft	2	2	1	1	Y1	Y2
190 ft	1	1	2	1	Y1	
200 ft	2	1	2	1		

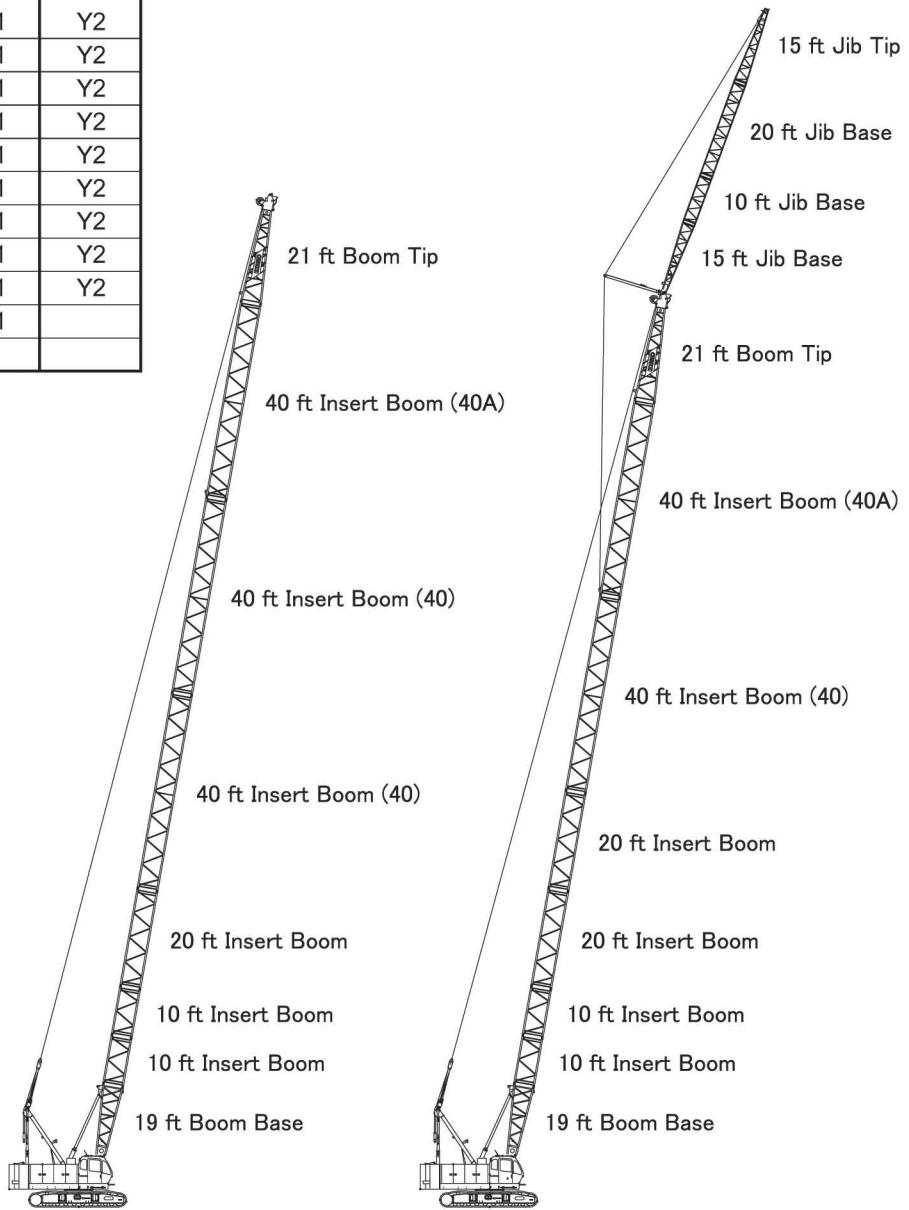
Y1: Auxiliary sheave can be attached.

Y2: Fixed jib can be attached.

To install fixed jib, one 40A (40 ft insert boom with lug) is required.

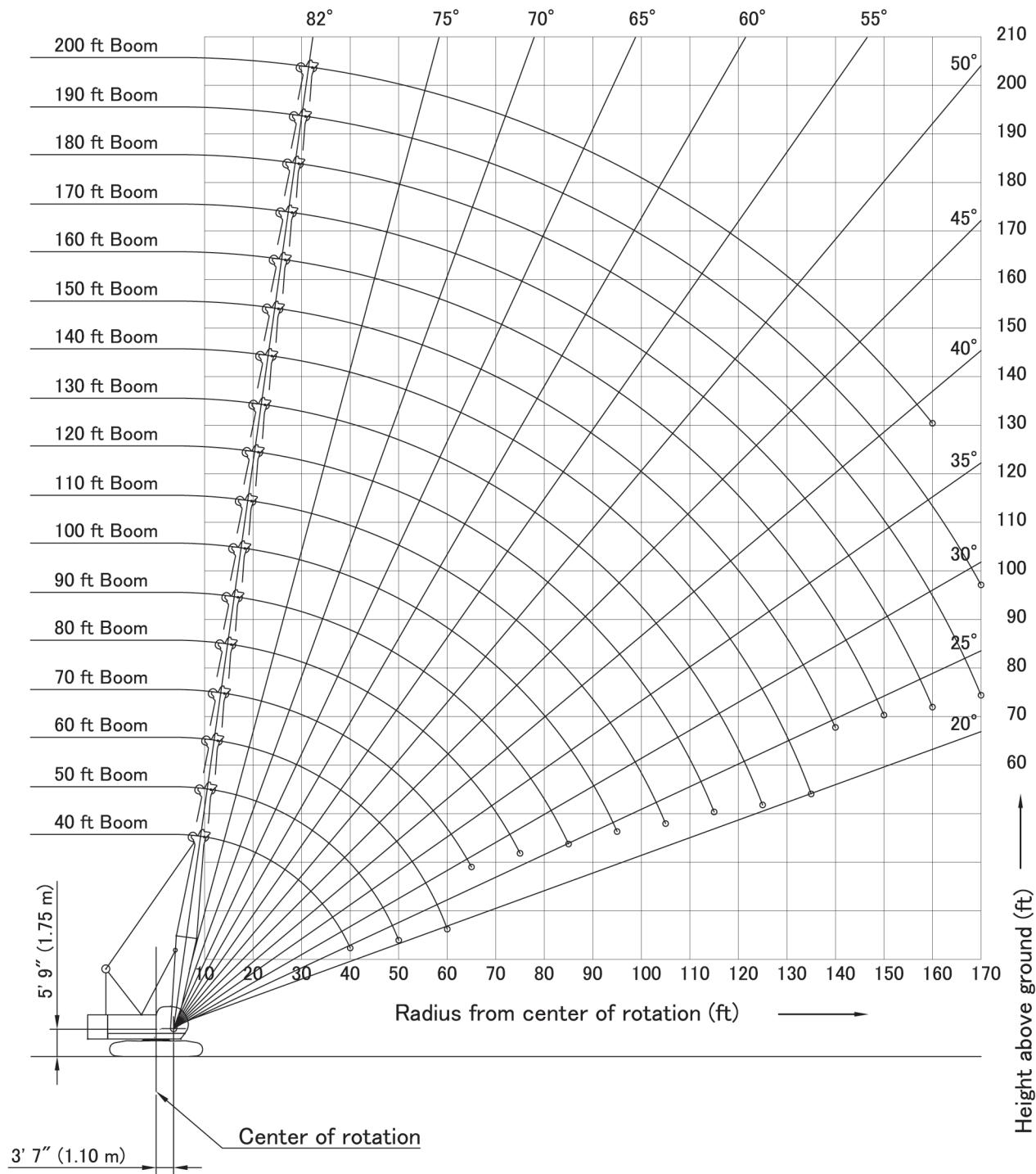
Jib Arrangement

Jib	Insert Jib	
	10 ft	20 ft
30 ft	—	—
40 ft	1	—
50 ft	—	1
60 ft	1	1



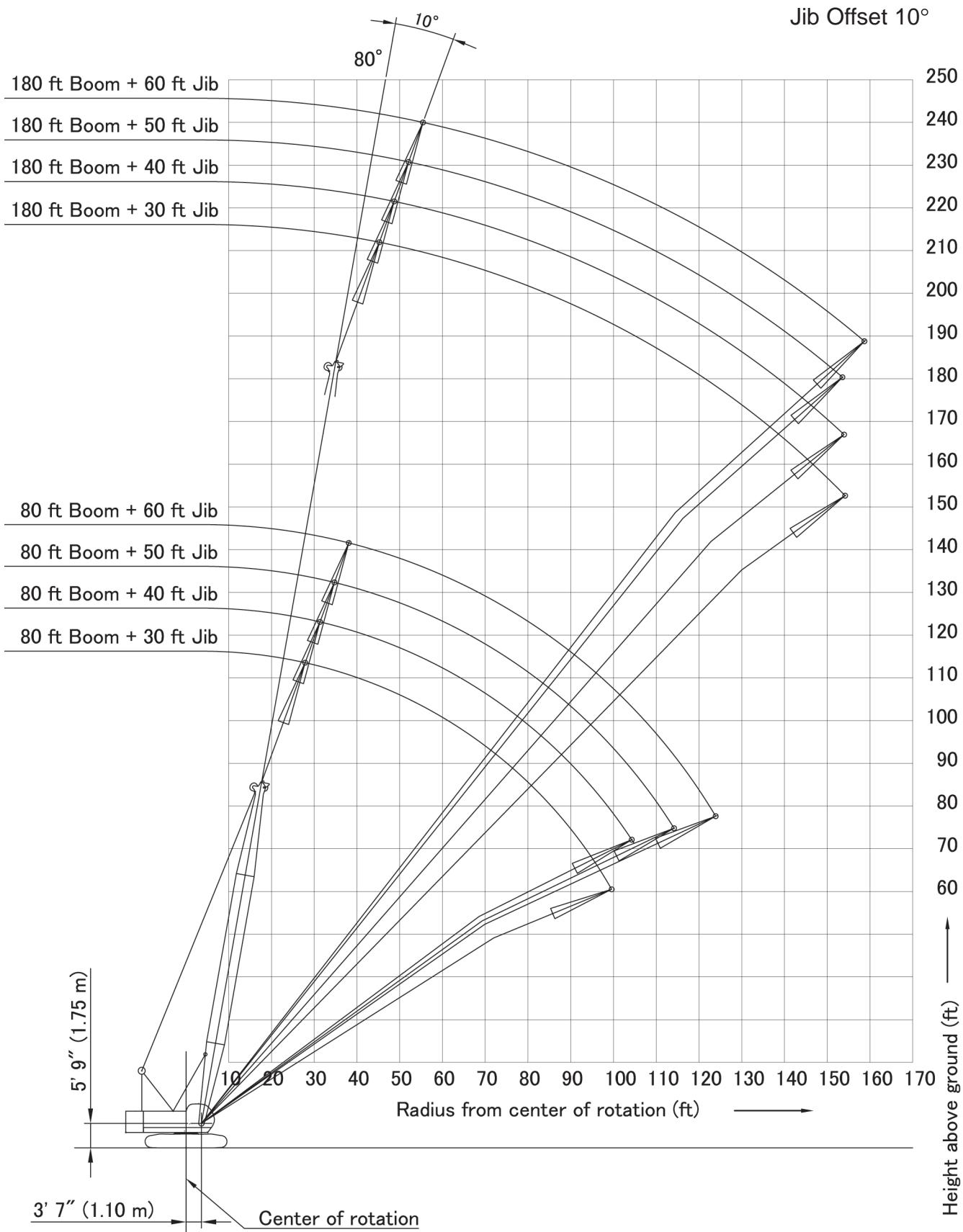
200 ft (61.0 m) Main Boom

180 ft (54.9 m) Main Boom
and 60 ft (18.3 m) Fixed Jib



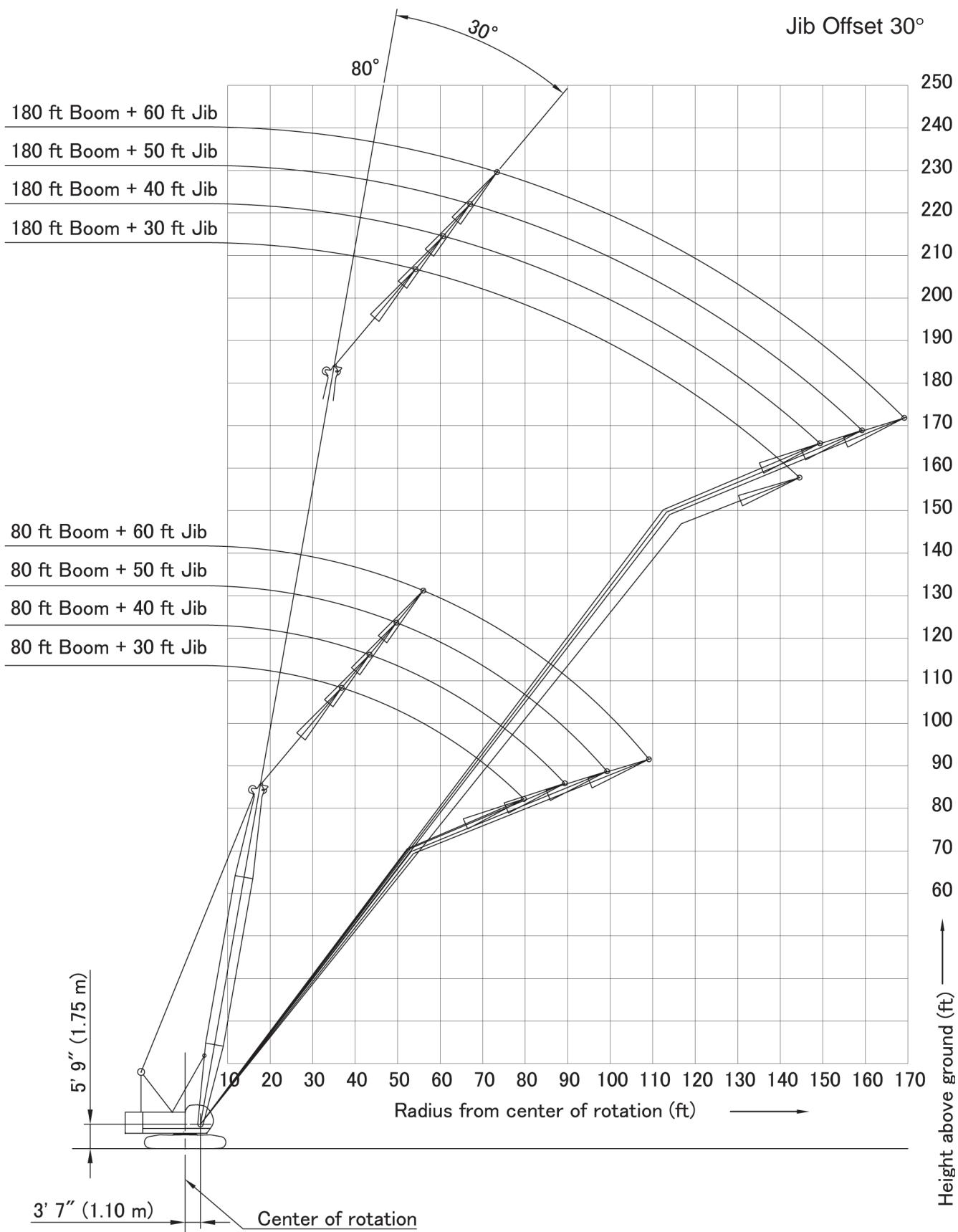
CK850-III Jib Working Range

KOBELCO



CK850-III Jib Working Range

KOBELCO



KOBELCO CK850-III Main Boom Rated Loads in Pounds

Counterweight: 54,900 lbs (24,900 kg)

Carbody weight: 14,720 lbs (6,680 kg)

Supplemental Data

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 level on 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 ground, 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. Rated loads do not exceed 75% of minimum tipping loads. Rated loads 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 operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - 1) The crane must be leveled to within 1% on a firm supporting surface.
 - 2) Boom backstops are required for all boom length.
 - 3) Gantry must be fully raised position for all operations.
 - 4) Crawlers must be fully extended and be locked in position.
 - 5) Counterweight: 54,900 lbs
 - 6) Carbody weight: 14,720 lbs
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 rated loads.
6. Weight of hooks, hook blocks, slings and other lifting devices are a 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.
8. The total load that can be lifted by jib is limited by rated jib loads.
9. Boom lengths for jib mounting are 80 ft (24.4 m) to 180 ft (54.9 m)
10. The total load that can be lifted by the auxiliary sheave is: the rated load for the boom (without auxiliary sheave installed) minus 320 lbs; however, the auxiliary sheave rated load should not exceed 17,000 lbs.
11. Permissible boom lengths for installing auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
12. The boom should be erected over the front of the crawlers, not laterally.
13. Least stable position is over the side.
14. Maximum hoist load for number of reeving parts of line for hoist rope.

Main Load for Main Boom

No. of Parts of line	1	2	3	4	5
Maximum Loads (lbs)	17,000	34,000	51,000	68,000	85,000

No. of Parts of line	6	7	8	9	10
Maximum Loads (lbs)	102,000	119,000	136,000	153,000	170,000

Main Load for Fixed Jib

No. of Parts of line	1	2
Maximum Loads (lbs)	17,000	24,000

Main Load for Auxiliary Sheave

No. of Parts of line	1
Maximum Loads (lbs)	17,000

15. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.

16. Designed and rated to comply with ANSI Code B30.5.

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	320	2,400	3,200	4,200	5,200

8. The total load that can be lifted by jib is limited by rated jib loads.

CK850-III Main Boom Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

40' Boom			50' Boom			60' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
10.0	81.7	170,000 *	12.0	81.1	166,400 *	13.0	81.6	154,200 *
11.0	80.3	170,000 *	13.0	79.9	154,400 *	14.0	80.7	143,800 *
12.0	78.8	166,600 *	14.0	78.8	144,000 *	15.0	79.7	134,700 *
13.0	77.4	154,600 *	15.0	77.6	134,900 *	16.0	78.7	126,700 *
14.0	75.9	144,200 *	16.0	76.4	126,900 *	17.0	77.7	119,500 *
15.0	74.4	135,100 *	17.0	75.2	119,700 *	18.0	76.8	113,000 *
16.0	72.9	127,100 *	18.0	74.0	113,200 *	19.0	75.8	105,460
17.0	71.4	119,900 *	19.0	72.8	105,660	20.0	74.8	97,130
18.0	69.9	113,400 *	20.0	71.6	97,350	22.0	72.8	83,790
19.0	68.3	105,820	22.0	69.2	84,010	24.0	70.8	73,560
20.0	66.7	97,500	24.0	66.7	73,810	26.0	68.7	65,490
22.0	63.6	84,190	26.0	64.2	65,760	28.0	66.6	58,970
24.0	60.3	74,000	28.0	61.6	59,230	30.0	64.5	53,570
26.0	56.9	65,980	30.0	58.9	53,850	32.0	62.4	49,030
28.0	53.4	59,480	32.0	56.2	49,310	34.0	60.2	45,170
30.0	49.7	54,100	34.0	53.3	45,480	36.0	58.0	41,840
32.0	45.7	49,580	36.0	50.4	42,150	38.0	55.7	38,950
34.0	41.5	45,740	38.0	47.3	39,280	40.0	53.3	36,410
36.0	36.9	42,460	40.0	44.1	36,750	45.0	47.0	31,230
38.0	31.6	39,590	45.0	34.9	31,590	50.0	40.0	27,290
40.0	25.5	34,830 *	50.0	22.7	26,890 *	55.0	31.7	24,200
						60.0	20.6	21,600 *
70' Boom			80' Boom			90' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
14.0	82.0	143,600 *	16.0	81.6	126,300 *	17.0	81.9	118,820 *
15.0	81.2	134,500 *	17.0	80.8	119,100 *	18.0	81.2	112,400 *
16.0	80.3	126,500 *	18.0	80.1	112,600 *	19.0	80.6	105,220
17.0	79.5	119,300 *	19.0	79.4	105,290	20.0	79.9	96,870
18.0	78.7	112,800 *	20.0	78.6	96,930	22.0	78.6	83,480
19.0	77.8	105,400	22.0	77.2	83,550	24.0	77.3	73,230
20.0	77.0	97,060	24.0	75.7	73,320	26.0	76.0	65,140
22.0	75.3	83,700	26.0	74.2	65,230	28.0	74.7	58,570
24.0	73.6	73,470	28.0	72.7	58,680	30.0	73.4	53,150
26.0	71.9	65,380	30.0	71.2	53,260	32.0	72.0	48,580
28.0	70.1	58,840	32.0	69.7	48,690	34.0	70.7	44,700
30.0	68.4	53,430	34.0	68.1	44,840	36.0	69.3	41,380
32.0	66.6	48,890	36.0	66.6	41,490	38.0	68.0	38,440
34.0	64.8	45,030	38.0	65.0	38,580	40.0	66.6	35,890
36.0	63.0	41,680	40.0	63.4	36,020	45.0	63.0	30,660
38.0	61.1	38,800	45.0	59.3	30,820	50.0	59.4	26,670
40.0	59.2	36,240	50.0	55.0	26,820	55.0	55.6	23,520
45.0	54.3	31,040	55.0	50.5	23,670	60.0	51.6	20,960
50.0	49.0	27,070	60.0	45.6	21,140	65.0	47.4	18,870
55.0	43.3	23,960	65.0	40.3	19,060	70.0	42.9	17,100
60.0	36.9	21,450	70.0	34.4	17,350	75.0	37.9	15,630
65.0	29.3	19,420	75.0	27.3	15,890	80.0	32.3	14,370
						85.0	25.7	13,310

CK850-III Main Boom Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

100' Boom			110' Boom			120' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
19.0	81.5	101,850 *	20.0	81.8	92,590 *	22.0	81.5	80,680 *
20.0	80.9	96,800	22.0	80.7	83,260	24.0	80.5	72,950
22.0	79.8	83,400	24.0	79.7	73,010	26.0	79.6	64,810
24.0	78.6	73,120	26.0	78.6	64,900	28.0	78.6	58,240
26.0	77.4	65,010	28.0	77.5	58,330	30.0	77.6	52,800
28.0	76.3	58,440	30.0	76.5	52,880	32.0	76.6	48,230
30.0	75.1	53,020	32.0	75.4	48,320	34.0	75.6	44,330
32.0	73.9	48,450	34.0	74.3	44,440	36.0	74.7	40,980
34.0	72.7	44,550	36.0	73.2	41,090	38.0	73.7	38,050
36.0	71.5	41,200	38.0	72.1	38,160	40.0	72.7	35,470
38.0	70.3	38,290	40.0	71.0	35,600	45.0	70.1	30,220
40.0	69.0	35,730	45.0	68.2	30,350	50.0	67.6	26,210
45.0	65.9	30,480	50.0	65.4	26,340	55.0	65.0	23,010
50.0	62.7	26,470	55.0	62.5	23,170	60.0	62.3	20,450
55.0	59.5	23,320	60.0	59.5	20,610	65.0	59.5	18,320
60.0	56.1	20,740	65.0	56.4	18,490	70.0	56.7	16,530
65.0	52.5	18,620	70.0	53.2	16,710	75.0	53.8	15,010
70.0	48.8	16,860	75.0	49.9	15,210	80.0	50.8	13,710
75.0	44.8	15,360	80.0	46.4	13,910	85.0	47.6	12,580
80.0	40.6	14,080	85.0	42.6	12,800	90.0	44.3	11,590
85.0	35.9	12,980	90.0	38.6	11,830	95.0	40.7	10,730
90.0	30.6	12,010	95.0	34.2	10,970	100.0	36.9	9,960
95.0	24.3	11,190	100.0	29.2	10,250	105.0	32.7	9,280
			105.0	23.2	9,610	110.0	27.9	8,680
						115.0	22.2	8,170
130' Boom			140' Boom			150' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
24.0	81.3	71,200 *	24.0	81.9	61,720 *	26.0	81.7	52,680 *
26.0	80.4	64,610	26.0	81.1	60,840 *	28.0	80.9	51,800 *
28.0	79.5	58,020	28.0	80.2	57,980	30.0	80.1	51,140 *
30.0	78.6	52,570	30.0	79.4	52,530	32.0	79.3	47,810
32.0	77.7	48,010	32.0	78.6	47,950	34.0	78.6	43,890
34.0	76.8	44,110	34.0	77.7	44,040	36.0	77.8	40,540
36.0	75.9	40,760	36.0	76.9	40,670	38.0	77.0	37,610
38.0	74.9	37,830	38.0	76.0	37,740	40.0	76.2	35,030
40.0	74.0	35,250	40.0	75.2	35,160	45.0	74.2	29,760
45.0	71.7	30,000	45.0	73.1	29,910	50.0	72.2	25,720
50.0	69.4	25,970	50.0	70.9	25,880	55.0	70.2	22,530
55.0	67.0	22,790	55.0	68.7	22,680	60.0	68.2	19,950
60.0	64.6	20,210	60.0	66.5	20,100	65.0	66.1	17,810
65.0	62.1	18,070	65.0	64.3	17,960	70.0	64.0	16,000
70.0	59.6	16,290	70.0	62.0	16,150	75.0	61.8	14,480
75.0	57.0	14,770	75.0	59.6	14,630	80.0	59.6	13,160
80.0	54.3	13,470	80.0	57.2	13,310	85.0	57.4	12,010
85.0	51.5	12,320	85.0	54.7	12,160	90.0	55.1	11,000
90.0	48.6	11,330	90.0	52.2	11,170	95.0	52.7	10,110
95.0	45.6	10,440	95.0	49.5	10,290	100.0	50.3	9,320
100.0	42.4	9,670	100.0	46.8	9,500	105.0	47.7	8,640
105.0	39.0	8,990	105.0	43.9	8,790	110.0	45.1	8,000
110.0	35.4	8,390	110.0	40.8	8,170	115.0	42.3	7,420
115.0	31.3	7,840	115.0	37.5	7,620	120.0	39.4	6,920
120.0	26.7	7,360	120.0	34.0	7,120	125.0	36.2	6,450
125.0	21.2	6,940	125.0	30.1	6,650	130.0	32.8	6,040
			130.0	25.7	6,260	135.0	29.1	5,660
			135.0	20.5	5,900	140.0	24.8	5,330

CK850-III Main Boom Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

160' Boom			170' Boom			180' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
28.0	81.5	44,090 *	28.0	82.0	38,800 *	30.0	81.8	33,730 *
30.0	80.7	43,430 *	30.0	81.3	38,130 *	32.0	81.1	33,060 *
32.0	80.0	42,760 *	32.0	80.6	37,470 *	34.0	80.5	32,620 *
34.0	79.3	42,100 *	34.0	79.9	37,030 *	36.0	79.8	31,960 *
36.0	78.6	40,520	36.0	79.2	36,370 *	38.0	79.2	31,520 *
38.0	77.8	37,560	38.0	78.6	35,710 *	40.0	78.5	31,080 *
40.0	77.1	34,980	40.0	77.9	34,780	45.0	76.9	29,250
45.0	75.2	29,710	45.0	76.1	29,510	50.0	75.3	25,220
50.0	73.4	25,680	50.0	74.4	25,460	55.0	73.6	22,000
55.0	71.5	22,480	55.0	72.6	22,260	60.0	72.0	19,400
60.0	69.6	19,880	60.0	70.9	19,660	65.0	70.3	17,260
65.0	67.7	17,720	65.0	69.1	17,520	70.0	68.6	15,450
70.0	65.7	15,930	70.0	67.2	15,710	75.0	66.8	13,910
75.0	63.7	14,390	75.0	65.4	14,170	80.0	65.1	12,560
80.0	61.7	13,070	80.0	63.5	12,850	85.0	63.3	11,410
85.0	59.7	11,920	85.0	61.6	11,680	90.0	61.5	10,400
90.0	57.6	10,910	90.0	59.7	10,670	95.0	59.7	9,500
95.0	55.4	10,000	95.0	57.7	9,780	100.0	57.8	8,700
100.0	53.2	9,210	100.0	55.7	8,990	105.0	55.9	8,000
105.0	50.9	8,500	105.0	53.6	8,260	110.0	54.0	7,340
110.0	48.6	7,870	110.0	51.5	7,620	115.0	52.0	6,760
115.0	46.1	7,290	115.0	49.3	7,050	120.0	49.9	6,230
120.0	43.6	6,760	120.0	47.0	6,520	125.0	47.8	5,700
125.0	40.9	6,280	125.0	44.7	6,040	130.0	45.6	5,220
130.0	38.1	5,860	130.0	42.2	5,570	135.0	43.3	4,780
135.0	35.0	5,440	135.0	39.6	5,150	140.0	40.9	4,380
140.0	31.8	5,070	140.0	36.9	4,760	145.0	38.4	4,030
145.0	28.1	4,710	145.0	34.0	4,380	150.0	35.8	3,680
150.0	24.0	4,380	150.0	30.8	4,050	155.0	33.0	3,370
			155.0	27.3	3,760	160.0	29.9	3,100
			160.0	23.3	3,500	165.0	26.5	2,840
						170.0	22.6	2,620

190' Boom			190' Boom			200' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
32.0	81.6	29,540 *	160.0	34.8	3,040	34.0	81.4	25,790 *
34.0	81.0	28,880 *	165.0	32.0	2,770	36.0	80.9	25,350 *
36.0	80.4	28,430 *	170.0	29.1	2,510	38.0	80.3	24,910 *
38.0	79.8	27,990 *				40.0	79.7	24,470 *
40.0	79.2	27,550 *				45.0	78.2	23,360 *
45.0	77.6	26,450 *				50.0	76.8	22,480 *
50.0	76.1	25,300				55.0	75.3	21,380 *
55.0	74.5	22,110				60.0	73.8	19,310
60.0	72.9	19,510				65.0	72.3	17,150
65.0	71.3	17,350				70.0	70.8	15,320
70.0	69.7	15,540				75.0	69.3	13,770
75.0	68.1	13,990				80.0	67.7	12,430
80.0	66.5	12,650				85.0	66.2	11,260
85.0	64.8	11,500				90.0	64.6	10,250
90.0	63.2	10,470				95.0	63.0	9,340
95.0	61.4	9,560				100.0	61.4	8,530
100.0	59.7	8,770				105.0	59.7	7,820
105.0	57.9	8,040				110.0	58.1	7,160
110.0	56.1	7,400				115.0	56.3	6,560
115.0	54.3	6,810				120.0	54.6	5,970
120.0	52.4	6,280				125.0	52.8	5,440
125.0	50.5	5,750				130.0	51.0	4,960
130.0	48.5	5,260				135.0	49.1	4,510
135.0	46.4	4,800				140.0	47.2	4,100
140.0	44.3	4,400				145.0	45.2	3,700
145.0	42.1	4,010				150.0	43.1	3,350
150.0	39.8	3,680				155.0	41.0	3,040
155.0	37.4	3,350				160.0	38.7	2,730

CK850-III Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

80' Boom

Load Radius (ft.)	30' Jib				40' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
30	79.3	24,000 *						
32	78.0	24,000 *						
34	77.0	24,000 *			79.3	24,000 *		
36	75.9	24,000 *			78.3	24,000 *		
38	74.9	24,000 *	79.6	20,230 *	77.4	24,000 *		
40	73.8	24,000 *	78.5	19,730 *	76.4	24,000 *		
45	71.1	24,000 *	75.7	18,600 *	73.9	24,000 *	79.7	15,360 *
50	68.3	24,000 *	72.8	17,610 *	71.4	22,150 *	77.1	14,480 *
55	65.3	23,890	69.7	16,710 *	68.7	20,280 *	74.3	13,640 *
60	62.3	21,340	66.7	15,960 *	66.1	18,800 *	71.6	12,980 *
65	59.3	19,200	63.6	15,290 *	63.4	17,520 *	68.8	12,360 *
70	56.2	17,410	60.3	14,700 *	60.6	16,400 *	65.9	11,830 *
75	52.8	15,780	56.7	14,150 *	57.6	15,360 *	62.7	11,350 *
80	49.3	14,460	53.1	13,710 *	54.6	14,520 *	59.6	10,930 *
85	45.7	13,330			51.5	13,470	56.3	10,560 *
90	41.8	12,320			48.3	12,450	52.9	10,250 *
95	37.2	11,370			44.6	11,500		
100	32.4	10,600			40.8	10,710		
105					36.7	10,000		

80' Boom

Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
38	79.3	20,000 *						
40	78.4	20,000 *					79.8	18,000 *
45	76.1	20,000 *					77.7	17,940 *
50	73.8	18,540 *					75.6	16,330 *
55	71.3	16,950 *	78.0	11,080 *	73.3	14,900 *		
60	68.9	15,690 *	75.5	10,490 *	71.2	13,750 *	78.7	8,950 *
65	66.5	14,610 *	73.0	9,980 *	69.0	12,780 *	76.4	8,480 *
70	64.0	13,660 *	70.4	9,540 *	66.7	11,900 *	74.1	8,060 *
75	61.3	12,760 *	67.6	9,100 *	64.2	11,110 *	71.5	7,670 *
80	58.7	12,030 *	64.8	8,730 *	61.9	10,440 *	69.0	7,340 *
85	56.0	11,390 *	62.0	8,420 *	59.5	9,850 *	66.5	7,030 *
90	53.2	10,800 *	59.0	8,130 *	57.0	9,320 *	63.9	6,760 *
95	50.0	10,250 *	55.6	7,840 *	54.2	8,810 *	60.9	6,500 *
100	46.9	9,780 *	52.3	7,620 *	51.5	8,390 *	58.1	6,280 *
105	43.6	9,360 *			48.7	8,020 *	55.0	6,100 *
110	40.0	8,990 *			45.7	7,670 *	51.8	5,930 *
115	35.8	8,640 *			42.3	7,340 *		
120					38.8	7,050 *		
125					35.1	6,810 *		

90' Boom

Load Radius (ft.)	30' Jib				40' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
32	79.1	24,000 *						
34	78.1	24,000 *						
36	77.1	24,000 *			79.3	24,000 *		
38	76.2	24,000 *			78.4	24,000 *		
40	75.2	24,000 *	79.5	20,170 *	77.5	24,000 *		
45	72.7	24,000 *	77.0	19,060 *	75.2	24,000 *		
50	70.2	24,000 *	74.4	18,120 *	72.9	23,320 *	78.2	14,810 *
55	67.5	23,690	71.6	17,210 *	70.4	21,400 *	75.6	14,020 *
60	64.9	21,120	68.9	16,460 *	68.1	19,880 *	73.2	13,330 *
65	62.2	19,000	66.1	15,800 *	65.6	18,560 *	70.7	12,760 *
70	59.4	17,190	63.3	15,210 *	63.2	17,370	68.1	12,230 *
75	56.4	15,560	60.2	14,660 *	60.4	15,740	65.3	11,720 *
80	53.5	14,240	57.1	14,190 *	57.8	14,410	62.5	11,300 *
85	50.4	13,090	53.9	13,330	55.1	13,240	59.7	10,930 *
90	47.1	12,100			52.3	12,230	56.7	10,580 *
95	43.4	11,150			49.1	11,280	53.4	10,270 *
100	39.7	10,360			46.0	10,490		
105	35.6	9,650			42.7	9,760		
110					39.1	9,120		
115					35.0	8,500		

90' Boom

Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
38	80.0	20,000 *						
40	79.2	20,030 *						
45	77.1	20,030 *					78.6	18,000 *
50	75.0	19,400 *					76.6	17,040 *
55	72.7	17,790 *	78.9	11,300 *	74.5	15,580 *		
60	70.5	16,510 *	76.7	10,730 *	72.5	14,410 *	79.5	9,100 *
65	68.3	15,380 *	74.4	10,250 *	70.5	13,400 *	77.4	8,660 *
70	66.1	14,390 *	72.0	9,780 *	68.4	12,520 *	75.3	8,240 *
75	63.6	13,490 *	69.5	9,360 *	66.1	11,680 *	72.9	7,870 *
80	61.3	12,720 *	67.0	8,990 *	64.0	11,000 *	70.7	7,530 *
85	58.8	12,050 *	64.5	8,680 *	61.8	10,400 *	68.4	7,230 *
90	56.3	11,440 *	61.8	8,370 *	59.5	9,850 *	66.0	6,960 *
95	53.6	10,860 *	58.9	8,110 *	57.1	9,320 *	63.4	6,700 *
100	50.9	10,380 *	56.1	7,870 *	54.7	8,880 *	60.9	6,480 *
105	48.0	9,850 *	53.1	7,640 *				
110	45.0	9,210					49.6	8,110 *
115	41.7	8,570					55.5	6,100 *
120	38.2	8,040					43.8	7,450 *
125	34.4	7,560					40.7	7,180 *
130							37.4	6,940 *
135							33.8	6,720 *

CK850-III Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

100' Boom

Load Radius (ft.)	30' Jib				40' Jib				
	10° Offset		30° Offset		10° Offset		30° Offset		
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	
32	79.9	24,000	*						
34	79.0	24,000	*						
36	78.1	24,000	*		80.0	24,000	*		
38	77.2	24,000	*		79.2	24,000	*		
40	76.4	24,000	*		78.4	24,000	*		
45	74.1	24,000	*	78.0	19,480	*	76.3	24,000	
50	71.8	24,000	*	75.7	18,560	*	74.2	24,000	
55	69.3	23,450		73.2	17,650	*	71.9	22,480	
60	67.0	20,870		70.7	16,930	*	69.7	20,920	
65	64.5	18,730		68.2	16,260	*	67.5	18,950	
70	62.1	16,930		65.7	15,670	*	65.3	17,150	
75	59.4	15,290		62.9	15,100	*	62.8	15,490	
80	56.7	13,970		60.2	14,300		60.4	14,150	
85	54.0	12,830		57.4	13,110		58.0	13,000	
90	51.2	11,810		54.5	12,050		55.5	11,970	
95	48.1	10,860		51.2	11,060		52.8	11,020	
100	45.0	10,070			50.1	10,200		54.0	10,310
105	41.7	9,360			47.2	9,500			
110	38.1	8,730			44.3	8,860			
115	34.0	8,130			40.9	8,220			
120					37.4	7,690			
125					33.7	7,230			

100' Boom

Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
40	79.9	20,000	*					
45	78.0	20,000	*					
50	76.0	20,000	*					
55	73.9	18,580	*	79.7	11,500	*	75.5	16,200
60	71.9	17,260	*	77.7	10,950	*	73.7	15,030
65	69.9	16,110	*	75.5	10,470	*	71.8	13,990
70	67.8	15,120	*	73.4	10,030	*	69.9	13,090
75	65.6	14,170	*	71.1	9,610	*	67.8	12,250
80	63.4	13,380	*	68.8	9,230	*	65.8	11,550
85	61.2	12,690	*	66.5	8,920	*	63.8	10,910
90	59.0	12,050	*	64.2	8,610	*	61.7	10,360
95	56.5	11,130		61.6	8,330	*	59.5	9,810
100	54.1	10,310		59.1	8,090	*	57.3	9,340
105	51.6	9,590		56.4	7,870	*	55.1	8,920
110	49.0	8,950		53.7	7,690	*	52.7	8,550
115	46.1	8,310					50.2	8,170
120	43.2	7,780					47.7	7,820
125	40.2	7,290					45.1	7,340
130	36.8	6,830					42.3	6,870
135	33.2	6,430					39.4	6,480
140							35.9	6,060
145							32.4	5,730

110' Boom

Load Radius (ft.)	30' Jib				40' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
34	79.8	24,000						
36	79.0	24,000						
38	78.2	24,000			79.9	24,000	*	
40	77.3	24,000			79.2	24,000	*	
45	75.3	24,000			79.0	19,860	*	77.2
50	73.2	24,000			76.8	18,930	*	75.3
55	70.9	23,320			74.5	18,070	*	73.2
60	68.7	20,740			72.2	17,350	*	71.2
65	66.5	18,580			70.0	16,680	*	69.9
70	64.3	16,770			67.7	16,090	*	67.1
75	61.8	15,140			65.1	15,520	*	64.8
80	59.4	13,820			62.7	14,170		62.7
85	57.0	12,670			60.5	12,980		60.5
90	54.5	11,660			57.6	11,920		58.2
95	51.8	10,710			54.8	10,930		55.7
100	49.1	9,920			52.0	10,110		53.3
105	46.3	9,210				50.8	9,320	
110	43.3	8,570				48.2	8,680	
115	39.9	7,950				45.4	8,040	
120	36.5	7,420				42.5	7,510	
125	32.7	6,960				39.4	7,050	
130						36.1	6,610	
135						32.5	6,190	

110' Boom

Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)	Boom Angle (deg.)	Rated Load (lbs.)
45	78.8	20,000	*					
50	76.9	20,000	*					
55	75.0	19,330	*					
60	73.1	17,980	*	78.5	11,150	*	74.7	15,600
65	71.2	16,820	*	76.5	10,670	*	72.9	14,570
70	69.3	15,800	*	74.6	10,250	*	71.1	13,640
75	67.2	14,830	*	72.4	9,830	*	69.2	12,780
80	65.2	14,020	*	70.4	9,470	*	67.3	12,050
85	63.2	12,960		68.3	9,140	*	65.5	11,410
90	61.2	11,920		66.1	8,840	*	63.6	10,840
95	58.9	10,950		63.8	8,550	*	61.5	10,270
100	56.7	10,160		61.5	8,310	*	59.5	9,780
105	54.5	9,430		59.2	8,090	*	57.5	9,360
110	52.2	8,770		56.7	7,890	*	55.4	8,840
115	49.7	8,130		54.0	7,690	*	53.1	8,200
120	47.2	7,600					50.9	7,640
125	44.5	7,120					48.6	7,160
130	41.8	6,650					46.2	6,700
135	38.8	6,260					43.6	6,300
140	35.4	5,860					40.8	5,880
145							37.9	5,530
150							34.8	5,220

CK850-III Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

120' Boom

Load Radius (ft.)	30' Jib								40' Jib								
	10° Offset				30° Offset				10° Offset				30° Offset				
	Boom Angle (deg.)	Rated Load (lbs.)															
36	79.7	24,000 *															
38	79.0	24,000 *															
40	78.2	24,000 *			79.9	24,000 *											
45	76.3	24,000 *	79.7	20,190 *	78.1	24,000 *											
50	74.3	24,000 *	77.7	19,290 *	76.2	24,000 *											
55	72.2	23,100	75.6	18,450 *	74.3	23,360	78.5	14,880 *									
60	70.2	20,520	73.5	17,720 *	72.4	20,760	76.6	14,240 *	75	68.7	15,250	73.6	10,030 *	70.4	13,290 *	76.1	8,350 *
65	68.2	18,360	71.4	17,080 *	70.5	18,580	74.7	13,690 *	80	66.8	13,910	71.7	9,670 *	68.7	12,560 *	74.4	8,040 *
70	66.1	16,550	69.3	16,490 *	68.6	16,770	72.7	13,160 *	85	65.0	12,740	69.7	9,340 *	67.0	11,900 *	72.6	7,730 *
75	63.9	14,920	67.0	15,340	66.5	15,100	70.6	12,670 *	90	63.1	11,700	67.8	9,060 *	65.2	11,300 *	70.7	7,470 *
80	61.7	13,600	64.8	13,970	64.5	13,770	68.5	12,250 *	95	61.0	10,730	65.6	8,770 *	63.3	10,730 *	68.7	7,230 *
85	59.5	12,430	62.6	12,780	62.5	12,610	66.4	11,860 *	100	59.0	9,920	63.6	8,500 *	61.5	9,980	66.8	7,010 *
90	57.3	11,410	60.2	11,720	60.5	11,570	64.3	11,500 *	105	57.0	9,190	61.4	8,280 *	59.6	9,250	64.9	6,790 *
95	54.8	10,470	57.7	10,730	58.2	10,620	62.0	11,130	110	54.9	8,530	59.3	8,060 *	57.7	8,590	62.9	6,610 *
100	52.4	9,650	55.2	9,890	56.0	9,810	59.7	10,290	115	52.6	7,890	56.8	7,870 *	55.6	7,950	60.7	6,410 *
105	49.9	8,950	52.6	9,140	53.8	9,080	57.4	9,520	120	50.4	7,360	54.5	7,690 *	53.6	7,400	58.6	6,260 *
110	47.3	8,310			51.5	8,440	55.0	8,840	125	48.1	6,850	52.1	7,250	51.5	6,920	56.4	6,100 *
115	44.5	7,690			49.0	7,800	52.3	8,150	130	45.7	6,410			49.3	6,450	54.1	5,970 *
120	41.6	7,160			46.5	7,270			135	43.1	5,990			47.1	6,040	51.7	5,860 *
125	38.5	6,670			43.8	6,790			140	40.3	5,590			44.6	5,640		
130	35.3	6,230			41.1	6,320			145	37.4	5,240			42.2	5,290		
135	31.7	5,840			38.1	5,930			150	34.3	4,910			39.6	4,960	36.8	4,650
140					34.7	5,530			155					33.6	4,340		

120' Boom

Load Radius (ft.)	50' Jib								60' Jib							
	10° Offset				30° Offset				10° Offset				30° Offset			
	Boom Angle (deg.)	Rated Load (lbs.)														
45	79.5	20,000 *														
50	77.7	20,000 *														
55	75.9	20,000 *														
60	74.2	18,690 *	79.2	11,330 *	75.6	16,180 *										
65	72.4	17,500 *	77.4	10,860 *	73.9	15,120 *	79.7	9,080 *								
70	70.6	16,440 *	75.6	10,420 *	72.2	14,170 *	78.0	8,700 *								
75	68.7	15,250	73.6	10,030 *	70.4	13,290 *	76.1	8,350 *								
80	66.8	13,910	71.7	9,670 *	68.7	12,560 *	74.4	8,040 *								
85	65.0	12,740	69.7	9,340 *	67.0	11,900 *	72.6	7,730 *								
90	63.1	11,700	67.8	9,060 *	65.2	11,300 *	70.7	7,470 *								
95	61.0	10,730	65.6	8,770 *	63.3	10,730 *	68.7	7,230 *								
100	59.0	9,920	63.6	8,500 *	61.5	9,980	66.8	7,010 *								
105	57.0	9,190	61.4	8,280 *	59.6	9,250	64.9	6,790 *								
110	54.9	8,530	59.3	8,060 *	57.7	8,590	62.9	6,610 *								
115	52.9	7,890	57.7	7,250	54.1	7,450	58.3	12,360 *	63.6	7,890 *						
120	50.4	7,360	54.5	7,690	52.1	7,250	51.5	6,920	56.4	6,100 *						
125	48.1	6,850	51.0	6,630	50.0	5,820	54.0	6,670	58.7	6,230 *						
130	45.7	6,410	48.8	6,170	47.8	5,400	52.0	6,230	56.6	6,100 *						
135	43.1	5,990	47.1	5,640	44.6	5,640	48.3	5,840	52.2	5,840						
140	40.3	5,590	43.3	4,710	41.0	4,400	45.3	4,070	48.9	4,070						
145	37.4	5,240	40.3	4,400	38.3	3,760	42.3	3,760	46.3	3,760						
150	34.3	4,910	37.3	4,930	35.6	3,760	41.3	3,760	45.3	3,760						
155	31.1	4,030	34.3	4,600	32.7	3,480	38.3	4,070	44.3	4,070						
160																
165																
170																

130' Boom

Load Radius (ft.)	50' Jib								60' Jib							
	10° Offset				30° Offset				10° Offset				30° Offset			
	Boom Angle (deg.)	Rated Load (lbs.)														
45	80.0	20,000 *														
50	78.4	20,000 *														
55	76.7	20,000 *														
60	75.1	19,330 *	79.9	11,480 *	76.3	16,710 *	78.7	8,840 *								
65	73.4	18,140 *	78.2	11,020 *	74.8	15,630 *										
70	71.7	16,710	76.5	10,620 *	73.2	14,680 *	78.7	8,840 *								
75	69.9	15,030	74.6	10,200 *	71.5	13,800 *	76.9	8,480 *								
80	68.2	13,690	72.8	9,850 *	69.9	13,050 *	75.3	8,170 *								
85	66.5	12,520	71.0	9,540 *	68.3	12,360 *	73.6	7,890 *								
90	64.7	11,480	69.2	9,230 *	66.6	11,570	71.9	7,620 *								
95	62.8	10,510	67.2	8,950 *	64.8	10,580	70.0	7,360 *								
100	61.0	9,700	65.3	8,700 *	63.1	9,760	68.3	7,140 *								
105	59.1	8,950	63.4	8,480 *	61.4	9,030	66.5	6,940 *								
110	57.2	8,310	61.4	8,260 *	59.6	8,370	64.6	6,740 *								
115	55.1	7,670	59.2	8,040 *	57.7	7,730	62.6	6,560 *								
120	53.1	7,120	57.1	7,600	55.9	7,180	60.7	6,39								

CK850-III Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

140' Boom

Load Radius (ft.)	30' Jib				40' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)						
40	79.6	24,000 *			79.4	24,000 *		
45	77.9	24,000 *			79.4	24,000 *		
50	76.2	24,000 *	79.2	19,900 *	77.8	24,000 *		
55	74.4	22,680	77.4	19,090 *	76.1	22,970	79.9	15,320 *
60	72.6	20,080	75.6	18,400 *	74.4	20,340	78.2	14,720 *
65	70.9	17,940	73.8	17,760 *	72.8	18,180	76.5	14,170 *
70	69.1	16,110	72.0	16,680	71.1	16,330	74.8	13,690 *
75	67.2	14,460	70.0	14,960	69.3	14,680	72.9	13,180 *
80	65.3	13,130	68.1	13,600	67.6	13,330	71.2	12,760 *
85	63.5	11,970	66.2	12,380	65.9	12,160	69.4	12,380 *
90	61.6	10,950	64.3	11,330	64.1	11,130	67.6	11,810
95	59.5	9,980	62.2	10,310	62.2	10,160	65.6	10,780
100	57.5	9,190	60.1	9,500	60.3	9,340	63.7	9,920
105	55.5	8,460	58.1	8,750	58.5	8,610	61.8	9,140
110	53.4	7,820	55.9	8,060	56.6	7,950	59.8	8,460
115	51.1	7,180	53.5	7,400	54.5	7,340	57.6	7,780
120	48.9	6,650	51.3	6,850	52.5	6,790	55.5	7,200
125	46.6	6,170			50.4	6,300	53.4	6,670
130	44.2	5,730			48.2	5,840		
135	41.7	5,330			46.0	5,420		
140	38.8	4,910			43.5	5,020		
145	36.0	4,560			41.1	4,670		
150	32.9	4,210			38.5	4,320		
155					35.7	3,940		
160					32.5	3,610		

140' Boom

Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)						
50	79.1	20,000 *						
55	77.4	20,000 *					78.5	18,000 *
60	75.9	19,970 *					77.0	17,210 *
65	74.3	18,360			78.8	11,170 *	75.6	16,130 *
70	72.8	16,510			77.2	10,780 *	74.1	15,160 *
75	71.1	14,830			75.5	10,380 *	72.5	14,260 *
80	69.4	13,490			73.8	10,030 *	71.0	13,490 *
85	67.8	12,300			72.1	9,720 *	69.4	12,410
90	66.2	11,260			70.4	9,430 *	67.9	11,350
95	64.4	10,290			68.6	9,120 *	66.2	10,380
100	62.7	9,470			66.8	8,880 *	64.6	9,540
105	60.9	8,730			65.0	8,660 *	63.0	8,810
110	59.2	8,060			63.2	8,440 *	61.4	8,150
115	57.2	7,420			61.2	8,000	59.6	7,490
120	55.4	6,900			59.3	7,420	57.9	6,960
125	53.5	6,390			57.3	6,900	56.1	6,450
130	51.6	5,930			55.3	6,390	54.3	5,990
135	49.5	5,510			53.1	5,950	52.5	5,570
140	47.3	5,090					50.5	5,150
145	45.1	4,730					48.5	4,800
150	42.9	4,400					46.5	4,470
155	40.5	4,030					44.4	4,100
160	37.8	3,680					42.0	3,720
165	35.1	3,370					39.7	3,410
170	32.2	3,080					37.3	3,130
175	34.2	2,550					34.6	2,840

150' Boom

Load Radius (ft.)	30' Jib				40' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)						
45	78.6	24,000 *			80.0	24,000 *		
50	77.0	24,000 *	79.9	20,170 *	78.5	24,000 *		
55	75.3	22,530	78.1	19,370 *	76.8	22,810		
60	73.6	19,920	76.4	18,690 *	75.3	20,190	78.9	14,920 *
65	72.0	17,790	74.8	18,070 *	73.7	18,030	77.3	14,390 *
70	70.3	15,960	73.1	16,550	72.1	16,180	75.7	13,910 *
75	68.5	14,300	71.2	14,830	70.5	14,520	73.9	13,420 *
80	66.8	12,980	69.5	13,470	68.8	13,180	72.3	13,000 *
85	65.1	11,810	67.7	12,250	67.2	12,010	70.6	12,630 *
90	63.3	10,800	65.9	11,190	65.6	10,970	68.9	11,680
95	61.4	9,830	63.9	10,180	63.8	10,000	67.1	10,670
100	59.6	9,010	62.1	9,340	62.1	9,190	65.3	9,810
105	57.7	8,310	60.2	8,590	60.4	8,460	63.5	9,030
110	55.8	7,640	58.2	7,910	58.6	7,800	61.7	8,330
115	53.7	7,030	56.1	7,270	56.7	7,160	59.7	7,670
120	51.7	6,500	54.0	6,700	54.8	6,610	57.8	7,090
125	49.6	5,990	51.8	6,190	52.9	6,120	55.8	6,560
130	47.5	5,550			51.0	5,660	53.8	6,080
135	45.3	5,150			49.0	5,260		
140	42.8	4,730			46.7	4,850		
145	40.3	4,320			44.6	4,450		
150	37.8	3,940			42.3	4,050		
155	35.0	3,590			39.9	3,700		
160	31.8	3,260			37.3	3,350		
165					34.6	3,040		

150' Boom

Load Radius (ft.)	50' Jib				60' Jib			
	10° Offset		30° Offset		10° Offset		30° Offset	
	Boom Angle (deg.)	Rated Load (lbs.)						
50	79.6	20,000 *						
55	78.1	20,000 *					79.1	18,000 *
60	76.6	20,000 *					77.7	17,700 *
65	75.1	18,200			79.4	11,330 *	76.3	16,600 *
70	73.7	16,350			77.9	10,930 *	74.9	15,650 *
75	72.1	14,680			76.3	10,530 *	73.4	14,720 *
80	70.5	13,330			74.7	10,200 *	71.9	13,420
85	69.0	12,140			73.1	9,870 *	70.5	12,230
90	67.5	11,110			71.5	9,590 *	69.0	11,190
95	65.8	10,110			69.8	9,300 *	67.4	10,200
100	64.2	9,300			68.2	9,060 *	65.9	9,390
105	62.6	8,570			66.5	8,810 *	64.4	8,640
110	60.9	7,910			64.8	8,570	62.9	7,980
115	59.1	7,270			62.9	7,890	61.2	7,340
120	57.4	6,720			61.2	7,290	59.6	6,790
125	55.7	6,210			59.3	6,760	58.0	6,280
130	53.9	5,750			57.5	6,280	56.3	5,820
135	52.0	5,330			55.6	5,820	54.6	5,400
140	50.0	4,930			53.4	5,350	52.8	4,980
145	48.1	4,560					51.0	4,620
150	46.1	4,160					49.2	4,230
155	43.9	3,790					47.3	3,850
160	41.6	3,430					45.2	3,480
165	39.3	3,100					43.1	3,170
170	36.8	2,820					41.0	2,860
175	34.2	2,550					38.7	2,600

CK850-III Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

160' Boom

Load Radius (ft.)	30' Jib								40' Jib								
	10° Offset				30° Offset				10° Offset				30° Offset				
	Boom Angle (deg.)	Rated Load (lbs.)															
45	79.2	24,000 *															
50	77.7	24,000 *															
55	76.1	22,350	78.8	19,640 *	77.5	22,000 *											
60	74.5	19,750	77.2	18,950 *	76.0	20,030	79.5	15,120 *									
65	73.0	17,590	75.6	18,290	74.6	17,850	78.0	14,590 *	75	72.9	14,500	77.0	10,670 *	74.2	14,610	78.9	8,810 *
70	71.4	15,760	74.0	16,400	73.1	16,000	76.4	14,100 *	80	71.5	13,130	75.5	10,330 *	72.8	13,240	77.5	8,530 *
75	69.7	14,100	72.3	14,680	71.5	14,320	74.8	13,640 *	85	70.1	11,940	74.0	10,030 *	71.4	12,050	76.1	8,240 *
80	68.1	12,780	70.7	13,290	70.0	12,980	73.2	13,220 *	90	68.6	10,910	72.5	9,740 *	70.0	11,000	74.6	8,000 *
85	66.5	11,610	69.0	12,080	68.4	11,810	71.7	12,630	95	67.0	9,920	70.9	9,450 *	68.5	10,000	73.1	7,760 *
90	64.8	10,580	67.3	11,020	66.9	10,780	70.1	11,530	100	65.5	9,100	69.3	9,210 *	67.1	9,190	71.6	7,530 *
95	63.0	9,630	65.5	10,000	65.2	9,780	68.4	10,510	105	64.0	8,370	67.8	8,970 *	65.7	8,440	70.2	7,310 *
100	61.3	8,810	63.8	9,170	63.6	8,970	66.7	9,650	110	62.5	7,690	66.2	8,420	64.2	7,780	68.7	7,140 *
105	59.6	8,090	62.0	8,420	62.0	8,240	65.1	8,880	115	60.8	7,050	64.5	7,730	62.7	7,140	67.0	6,940 *
110	57.9	7,450	60.2	7,730	60.4	7,580	63.4	8,170	120	59.2	6,500	62.8	7,140	61.2	6,590	65.5	6,790 *
115	55.9	6,810	58.2	7,070	58.6	6,940	61.5	7,490	125	57.6	6,010	61.1	6,610	59.7	6,080	63.9	6,610 *
120	54.1	6,280	56.3	6,520	56.9	6,410	59.8	6,920	130	55.9	5,550	59.4	6,100	58.1	5,620	62.3	6,280
125	52.2	5,770	54.4	5,990	55.1	5,900	58.0	6,390	135	54.2	5,130	57.6	5,640	56.5	5,180	60.7	5,820
130	50.3	5,330	52.4	5,530	53.3	5,440	56.1	5,900	140	52.4	4,670	55.7	5,200	54.8	4,760	58.9	5,350
135	48.2	4,890			51.5	5,020	54.2	5,440	145	50.6	4,250	53.8	4,800	53.2	4,320	57.1	4,960
140	46.0	4,400			49.5	4,560	52.1	5,000	150	48.7	3,850	51.9	4,430	51.5	3,920	55.4	4,580
145	43.9	4,010			47.5	4,140			155	46.8	3,480			49.7	3,540	53.6	4,230
150	41.6	3,610			45.5	3,740			160	44.8	3,100					47.8	3,170
155	39.3	3,260			43.4	3,370			165	42.7	2,790					46.0	2,860
160	36.6	2,910			41.1	3,020											44.1
165	33.9	2,600					38.8	2,710									2,550

160' Boom

Load Radius (ft.)	30' Jib								40' Jib							
	10° Offset				30° Offset				10° Offset				30° Offset			
	Boom Angle (deg.)	Rated Load (lbs.)														
45	78.7	20,000 *							55	78.7	20,000 *					
50	77.3	19,200 *							60	77.3	19,200 *					
55	75.9	18,030			80.0	11,440 *			65	75.9	18,030					
60	74.5	16,180			78.5	11,060 *			70	74.5	16,180					
65	72.9	14,500			77.0	10,670 *			75	72.9	14,500					
70	71.5	13,130			75.5	10,330 *			80	71.5	13,130					
75	70.1	11,940			74.0	10,030 *			85	70.1	11,940					
80	68.6	10,910			72.5	9,740 *			90	68.6	10,910					
85	67.0	9,920			70.9	9,450 *			95	67.0	9,920					
90	65.5	9,100			69.3	9,210 *			100	65.5	9,100					
95	64.0	8,370			67.8	8,970 *			105	64.0	8,370					
100	62.5	7,690			66.2	8,420			110	62.5	7,690					
105	60.8	7,050			64.5	7,730			115	60.8	7,050					
110	59.2	6,500			62.8	7,140			120	59.2	6,500					
115	57.6	6,100 *			66.2	7,730			125	57.6	6,100 *					
120	55.9	5,550			62.5	7,140			130	55.9	5,550					
125	54.3	5,130			63.2	6,830			135	54.3	5,130					
130	52.4	4,670			64.0	6,560			140	52.4	4,670					
135	50.6	4,250			64.5	6,920			145	50.6	4,250					
140	48.7	3,850			65.3	8,150			150	48.7	3,850					
145	46.9	3,650			66.8	8,970			155	46.9	3,650					
150	44.8	3,280			67.4	8,240			160	44.8	3,280					
155	42.7	2,930			68.4	8,610			165	42.7	2,930					
160	40.4	2,570			69.3	9,210										

170' Boom

Load Radius (ft.)	30' Jib								40' Jib							
	10° Offset				30° Offset				10° Offset				30° Offset			
	Boom Angle (deg.)	Rated Load (lbs.)														
45	79.2	18,500 *							55	79.2	18,500 *					
50	77.9	17,800 *							60	77.9	17,800 *					
55	76.5	17,100 *							65	76.5	17,100 *					
60	75.2	15,980			79.1	11,170 *			70	75.2	15,980					
65	73.8	17,370	76.4	18,120	75.3	17,630	78.6	14,770								

CK850-III Jib Rated Loads in Pounds

2 Counterweights + 2 Low Weights - Crawlers fully extended

180' Boom										180' Boom														
Load Radius (ft.)	30' Jib					40' Jib					Load Radius (ft.)	50' Jib					60' Jib							
	10° Offset		30° Offset		10° Offset		30° Offset					10° Offset		30° Offset		10° Offset		30° Offset						
	Boom Angle (deg.)	Rated Load (lbs.)		Boom Angle (deg.)	Rated Load (lbs.)																			
50	78.9	19,770	*								55	79.7	17,000	*										
55	77.4	19,240	*	79.9	19,060	*	78.7	18,500	*		60	78.4	16,400	*			79.3	15,000	*					
60	76.0	18,760	*	78.5	18,580	*	77.3	17,800	*		65	77.1	15,800	*			78.0	14,500	*					
65	74.6	17,190		77.1	17,960		76.0	17,100	*	79.1	14,740	*	70	75.9	15,200	*	79.6	11,300	*	76.8	14,000	*		
70	73.2	15,360	75.6	16,070	74.7	15,630	77.7	14,460	*	75	74.5	13,980	*	78.2	10,930	*	75.5	13,500	*	79.9	8,990	*		
75	71.7	13,710		74.1	14,350		73.2	13,950		76.3	14,020	*	80	73.2	12,760		76.9	10,600	*	74.3	12,870	78.6	8,700	*
80	70.3	12,360	72.6	12,940	71.9	12,580	74.9	13,580		85	71.9	11,570		75.5	10,310	*	73.0	11,680		77.3	8,460	*		
85	68.8	11,190		71.2	11,720		70.5	11,410		73.5	12,320		90	70.6	10,510		74.2	10,030	*	71.8	10,620	76.0	8,200	*
90	67.4	10,180	69.7	10,640	69.1	10,360	72.1	11,220		95	69.2	9,520		72.7	9,740	*	70.4	9,630		74.6	7,950	*		
95	65.8	9,190		68.1	9,630		67.6	9,390		70.5	10,180		100	67.8	8,700		71.4	9,500	*	69.2	8,790	73.3	7,760	*
100	64.3	8,390	66.5	8,790	66.2	8,570	69.1	9,320		105	66.5	7,950		70.0	8,810		67.9	8,040		72.0	7,530	*		
105	62.8	7,670		65.0	8,040		64.8	7,820		67.6	8,550		110	65.1	7,290		68.5	8,110		66.6	7,360	70.7	7,360	*
110	61.3	7,010	63.4	7,360	63.3	7,160	66.1	7,840		115	63.6	6,630		67.0	7,400		65.2	6,720		69.2	7,160	*		
115	59.6	6,370		61.7	6,670		61.8	6,520		64.5	7,160		120	62.2	6,080		65.6	6,810		63.8	6,170	67.8	7,010	*
120	58.0	5,840	60.1	6,120	60.3	5,970	63.0	6,560		125	60.8	5,570		64.1	6,260		62.5	5,660		66.4	6,480			
125	56.4	5,310		58.4	5,590		58.8	5,460		61.4	6,040		130	59.3	5,090		62.6	5,770		61.1	5,180	65.0	5,970	
130	54.7	4,780	56.7	5,110	57.2	4,960	59.8	5,550		135	57.8	4,580		61.1	5,310		59.7	4,670		63.6	5,480			
135	53.0	4,270		55.0	4,580		55.6	4,450		58.2	5,090		140	56.2	4,070		59.4	4,850		58.2	4,160	62.0	5,020	
140	51.2	3,790	53.1	4,070	53.9	3,940	56.4	4,580		145	54.7	3,630		57.8	4,380		56.8	3,720		60.5	4,620			
145	49.4	3,370		51.3	3,610		52.3	3,520		54.7	4,120		150	53.1	3,240		56.2	3,940		55.3	3,320	59.0	4,160	
150	47.6	2,970				50.6	3,130	53.0	3,680		155	51.5	2,860		54.5	3,520		53.8	2,930		57.5	3,740		
155	45.7	2,600				48.8	2,750				160				52.7	3,100		52.2	2,550		55.8	3,320		
										165										54.1	2,950			
										170										52.4	2,600			

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: 70 ft (21.3 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

Base = Boom Base

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

Tip = Boom Tip

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 sort of 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 70 ft (21.3 m).

CK850-III Clamshell Capacity in Pounds

1 Counterweight only, No Low Weight - Crawlers fully extended

Load Radius (ft)	40' Boom		50' Boom		Load Radius (ft)	60' Boom		70' Boom	
	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)		Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)
22.0	63.6	16,000 *			30.0	64.5	16,000 *		
24.0	60.3	16,000 *			32.0	62.4	16,000 *		
26.0	56.9	16,000 *	64.2	16,000 *	34.0	60.2	16,000 *	64.8	16,000 *
28.0	53.4	16,000 *	61.6	16,000 *	36.0	58.0	16,000 *	63.0	16,000 *
30.0	49.7	16,000 *	58.9	16,000 *	38.0	55.7	16,000 *	61.1	16,000 *
32.0	45.7	16,000 *	56.2	16,000 *	40.0	53.3	16,000 *	59.2	16,000 *
34.0	41.5	16,000 *	53.3	16,000 *	42.0	50.9	16,000 *	57.3	16,000 *
36.0	36.9	16,000 *	50.4	16,000 *	44.0	48.3	16,000 *	55.3	15,800 *
38.0	31.6	16,000 *	47.3	16,000 *	46.0	45.7	16,000 *	53.3	15,600 *
40.0	25.5	16,000 *	44.1	16,000 *	48.0	42.9	15,200 *	51.2	15,200 *
42.0			40.6	16,000 *	50.0	40.0	14,500 *	49.0	14,300 *
44.0			36.9	16,000 *	52.0	36.9	13,600	46.8	13,600 *
46.0			32.8	16,000 *	54.0	33.5	13,000	44.5	13,000 *
48.0			28.2	15,400 *	56.0	29.8	12,300	42.1	12,300 *
					58.0	25.6	11,900	39.6	11,600 *
					60.0			36.9	11,200 *
					62.0			34.0	10,800 *
					64.0			30.9	10,100 *
					66.0			27.5	9,700 *

CK850-III

Note: Due to our policy of continual product improvement, all designs and specifications are subject to change without advance notice. Pictures inside this publication may show machines with optional equipment. This manual and the specifications herein were prepared for the market served by Kobelco Cranes North America Inc., including North America and Latin America. Kobelco product specifications in other world markets may differ.

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