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KOBELCO

CK1600-II

HYDRAULIC CRAWLER CRANE

Max. Lifting Capacity: 160 US Tons
Max. Boom Length: 250 ft
Max. Boom + Jib Length: 200 ft + 100 ft

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SPECIFICATIONS FOR CK1600-II CRAWLER CRANE

The Kobelco CK1600-II Crawler Crane is designed from the ground up for reliable operation, convenient maintenance and easy transport.

Please consult your Kobelco distributor for additional information regarding specifications, operating parameters and maintenance requirements.

1. GENERAL DESCRIPTION

Type Crawler mounted, fully revolving
Maximum lifting capacity 320,000 lbs (145,200 kg)
(at 15' operating radius, with 50' boom)
Basic boom length 50' (15.2 m)
Maximum boom length 250' (76.2 m)
Maximum boom & jib length
200' + 100' (61.0 m + 30.5 m)

2. GENERAL DIMENSIONS

Height to top of cab 11' 9" (3.58 m)
Width of upper machine with operator's cab
10' 6" (3.20 m)
Radius of rear end (counterweight) 18' 1" (5.50 m)
Counterweight ground clearance 4' 5" (1.34 m)
Center of rotation to boom foot pin 4' 7" (1.40 m)
Height from ground to boom foot pin 8' 4" (2.53 m)
Height over gantry (raised) 25' 11" (7.89 m)
Overall length of crawler 25' 11" (7.90 m)
Center to center of tumblers 22' 8" (6.89 m)
Overall width of crawlers 21' 9" (6.62 m)
Shoe width 48" (1.22 m)
Ground clearance of carbody 19" (0.48 m)

3. WORKING WEIGHT

Type of Counterweight	Light	Standard
Working Weight	273,000 lbs (124,000 kg)	306,000 lbs (139,000 kg)
Ground Bearing Pressure	10.5 psi	11.7 psi
Gradeability	30%	30%

Calculations to determine working weight ground bearing pressue and gradeability include the weight of the base machine, 50' boom and hook block.

Type of Counterweight:
Light = 105,820 lbs (48,000 kg) Counterweight without carbody weight.
Standard = 116,840 lbs (53,000 kg) Counterweight with carbody weight.

4. WORKING SPEED

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

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
157 ~ 7 ft/min (48 ~ 2 m/min)
2 minutes: 250 ft (76.2 m) boom raise 0 to 80 degree
Boom lowering line speed
157 ~ 7 ft/min (48 ~ 2 m/min)
Swing speed 2.1 rpm (2.1 min^{-1})
Travel speed (High / Low) 0.81 / 0.56 mph
(1.3 / 0.9 km/hour)

5. UPPER MACHINERY

5.1 Power plant

Diesel engine, make and model
Hino P11C-UN (Comply with EPA "Tier 3")
No. of cylinders 6
Bore X stroke 4-13/16" X 5-7/8"
(122 mm X 150 mm)
Cycles 4
Total displacement 642 cu.in (10,520 cm^3)
Rated output SAE GROSS
331 HP / 2,000 rpm (247 kW / 2,000 min^{-1})
Maximum torque
959 lbs-ft / 1,500 rpm (1,300 Nm / 1,500 min^{-1})
Starter 24 Volts / 6.0 kW
Alternator 24 Volts / 50 Amp
Batteries
Two 12 volt, 170 AH/20HR capacity series connected.
Radiator
Corrugated type core, thermostatically controlled.
Throttle
Twist grip type hand throttle, electrically controlled.
Air cleaner Dry type with replaceable paper element.
Fuel tank capacity 106 US gal. (400 liters)
Lube oil filter
Full flow and by-pass type with element type.
Fuel filter Replaceable paper element.
Approximate fuel consumption
0.362 lb / HP-hr (220 g / kW-hr)
17.3 US gal. / hr at 100 % HP

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5.2 Hydraulic pumps

All driven from heavy duty pump drive.

Load hoist and propel

2 Piston pumps, max flow rate 66.5 US gal./min x 2 (252 ℓ/min x 2)

Boom Hoist

1 Piston pump, max flow rate 66.5 US gal./min (252 ℓ/min)

Swing

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

Control system and auxiliary

2 Gear pumps, max flow rate 16.1 US gal./min x10.6 US gal (61 l/min x 40 ℓ/min)

Brake cooling system

2 Gear pumps, max flow rate 19.3 US gal./min x 2 (73 ℓ/min x 2)

5.3 Counterweight

Light Weight

one (1) base counterweight (A) and eight (8) side counterweights (B) 105,820 lbs(48,000 kg)

Standard Weight

one (1) base counterweight (A), eight (8) side counterweight (B) and two side counterweights (C) 116,840 lbs (53,000 kg)

two (2) carbody weight 22,050 lbs (10,000 kg)

Additional weight consists of two (2) side counterweights (C) and two (2) carbody weights.

Description		Light	Standard
Base Counterweight (A)		1	1
Side Counterweight (B)		8	8
Side Counterweight (C)		0	2
Carbody Counterweight		0	2
Total Weight	Upper	105,820 lbs (48,000 kg)	116,840 lbs (53,000 kg)
	Lower	None	22,050 lbs (10,000 kg)

5.4 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.

5.5 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.

5.6 Controls

At operator's right are console-mounted adjustable short 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.

5.7 Electric system

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

5.8 Hydraulic system

Maximum pressure rating 4,620 psi (31.9 Mpa)

Cooling Oil to air heat exchanger

Filtration

Full flow filters with replaceable paper elements

5.9 Boom hoist

Powered by hydraulic motor through planetary reducer.

Drum

Single drum.
Grooved for 20.0 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.

5.10 Front drum

Powered by hydraulic motor through planetary reducer.

Drum

26.2" (666 mm) P.C.D. X 26.5" (672 mm) Lg.
Grooved for 26 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 (Optional)

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

5.11 Rear drum

Powered by hydraulic motor through planetary reducer.

Drum

26.2" (666 mm) P.C.D. X 26.5" (672 mm) Lg.
Grooved for 26 mm dia. wire rope.

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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 (Optional)

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

5.12 Third winch (Optional)

Powered by hydraulic motor through planetary reducer. Installed in base machine. Free-fall is not applied

Drum

24.2” (614 mm) P.C.D. X 24.3” (617 mm) Lg.
Grooved for 26 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.

5.13 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 4 Position lock for transportation.

6. LOWER MACHINERY

6.1 Carbody

The durable carbody features steel welded construction with axles.

6.2 Crawler

Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension adjusted with hydraulic jack and maintained by shims between the idler block and frame.

6.3 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 gearbox are built into the crawler side frame within the shoe width.

6.4 Crawler brakes

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

6.5 Steering mechanism

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

6.6 Crawler shoes

60 shoes, 48” (1,220 mm) wide each crawler.

6.7 Track rollers

The track rollers are sealed for maintenance-free operation.

7. CRANE ATTACHMENTS

7.1 Crane boom

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

Maximum boom length	250’ (76.2 m)
Basic boom length	50’ (15.2 m)
Boom base section	25’ (7.6 m)
Boom tip section (with Taper insert boom)	25’ (7.6 m)

7.2 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 on each one of 10’ (3.1 m), 20’ (6.1 m), 40’ (12.2 m) in length.

7.3 Jib (Optional)

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

Maximum jib length	100’ (30.5 m)
Basic jib length	40’ (12.2 m)
Jib base section	15’ (4.6 m)
Jib tip section	15’ (4.6 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 90’ (27.4 m) through 200’ (61.0 m)

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7.4 Auxiliary sheave (Optional)

Auxiliary sheave is extendible on booms of 50' (12.2 m) to 240' (73.2 m).
Maximum line: 2 parts of 26 mm wire rope

7.5 Diameter of wire rope

Hoist rope	26 mm
Boom hoist rope	20 mm
Boom pendant rope	30 mm
Jib pendant rope	26 mm

7.6 Boom hoist reeving

Twelve (12) parts of 20 mm dia. high strength wire rope.

7.7 Boom backstops

Telescopic type with spring bumper.

8. AUXILIARY EQUIPMENT

8.1 Lights

Two (2) front flood lights
One (1) cab inside light

8.2 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

8.3 Others

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

9. SAFETY SERVICE

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

10. TOOLS AND ACCESSORIES

A set of tools and accessories are furnished.

11. OPTIONAL EQUIPMENT

Front and rear winch free-fall (Wet-type disc brake)
Third drum
Reeving winch
Hydraulic boom foot pin cylinder
Hydraulic tagline
Pillow plate for boom self-erection
Custom color

All specifications are subject to change without notice.

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CK1600-II Winch Performance Data

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Front and Rear drum
Wire rope diameter: 26 mm
Rated line pull: 29,500 lbs (13,380 kg)
Maximum pull: 50,250 lbs (22,800 kg)
Total storage capacity: 1,383 ft (422 m)

	Line Speed (ft/min)							
	Layer	1	2	3	4	5	6	7
Line Pull (lbs)	0	393	419	445	471	497	523	storage only
	5,000	386	412	437	462	487	512	
	10,000	353	353	353	353	353	353	
	15,000	235	235	235	235	235	235	
	20,000	177	177	177	177	177	177	
	29,500	120	120	120	120	120	120	
	35,000	101	101	101	101	101	101	
	40,000	90	90	90	90			
	50,250	73						
Storage Capacity (ft)		165	176	187	198	208	219	230

Third drum (optional)
Wire rope diameter: 26 mm
Rated line pull: 29,500 lbs (13,380 kg)
Maximum pull: 54,510 lbs (24,730 kg)
Total storage capacity: 795 ft (243 m)

	Line Speed (ft/min)					
	Layer	1	2	3	4	5
Line Pull (lbs)	0	328	355	379	403	427
	5,000	326	349	372	395	418
	10,000	241	234	231	231	231
	15,000	154	154	154	154	154
	20,000	115	115	115	115	115
	29,500	78	78	78	78	78
	40,000	58	57	57	57	57
	50,000	46	46			
	54,510	43				
Storage Capacity (ft)		139	149	159	169	179

Wire Rope Specifications

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	UNI rope (U3 x SeS48) Regular lay, Right hand lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	902' (275 m)	3.5: 1	103,250 lbs (46,840 kg)
Rear drum	UNI rope (U3 x SeS48) Regular lay, Right hand lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	836' (255 m)	3.5: 1	103,250 lbs (46,840 kg)
Boom Drum	6 x 31 Warrington seal Right hand lay, Regular lay	0.807" to 0.822" (20.50 mm to 20.90 mm)	623' (190 m)	3.5: 1	73,640 lbs (33,400 kg)
Third drum (Optional)	6 x 25 Filler IWRC Right hand lay, Regular lay	1.050" to 1.069" (26.65 mm to 27.17 mm)	787' (240 m)	3.5: 1	103,250 lbs (46,840 kg)

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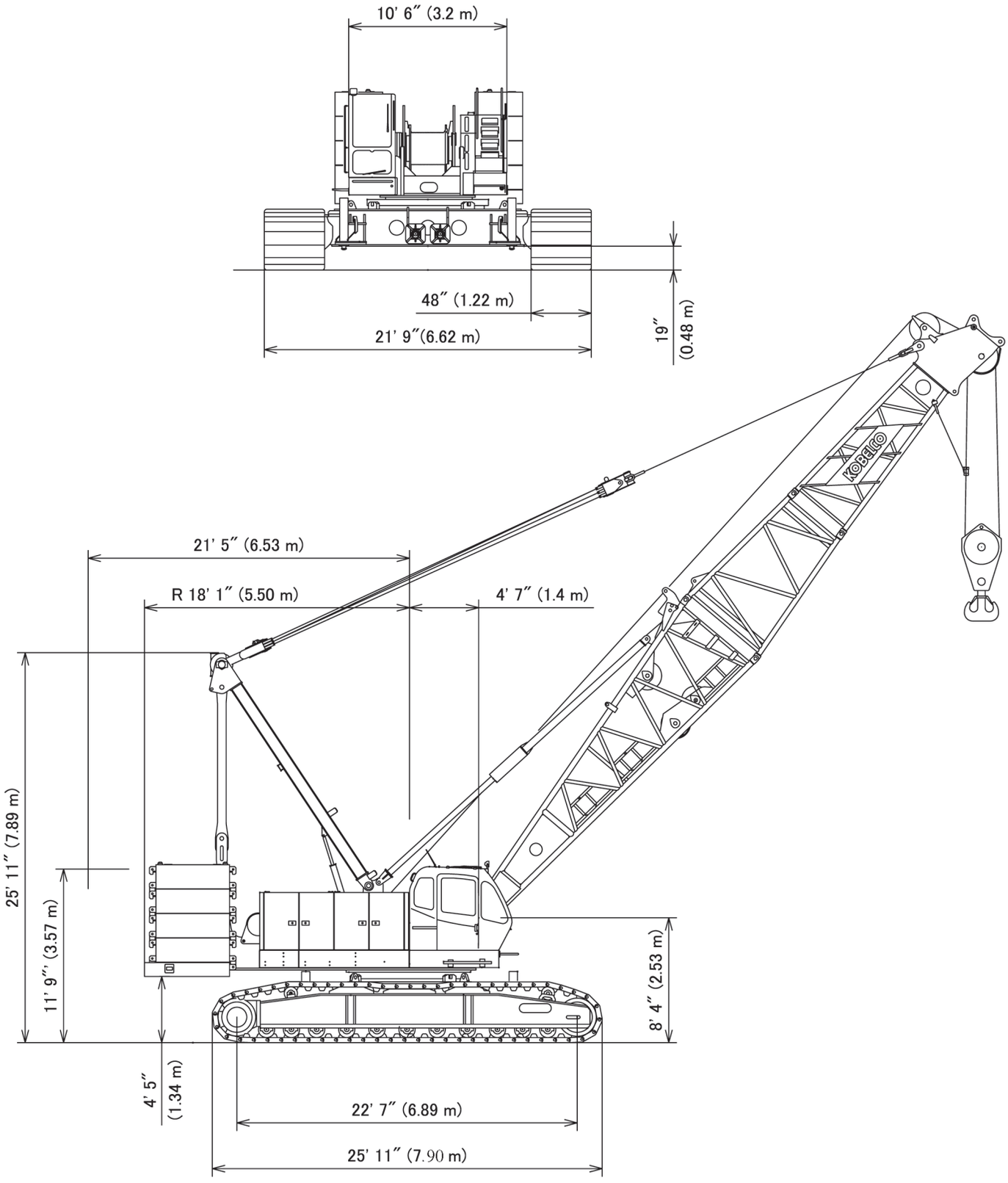
CK1600-II General Dimensions



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CK1600-II Dimension and Weight

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Base Machine-1

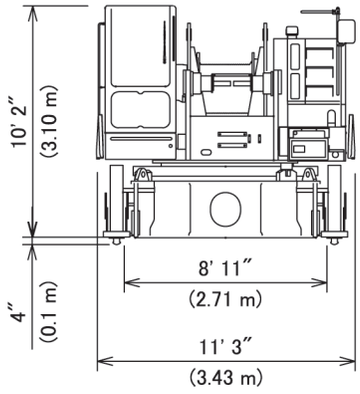
Boom base with self-assembly sheave, Counterweight Self-Removal Cylinder, Translifter and Front, Rear, Boom hoist wire rope
Weight: 86,420 lbs (39,200 kg)

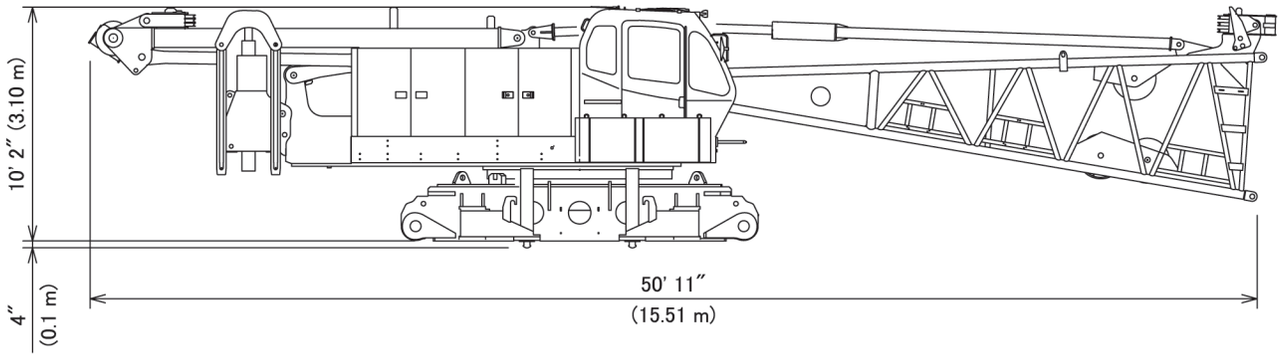
Base Machine-2

In addition Base Machine-1, optional Front/Rear Free-Fall Break equipped.
Weight: 88,180 lbs (40,000 kg)

Base Machine-3

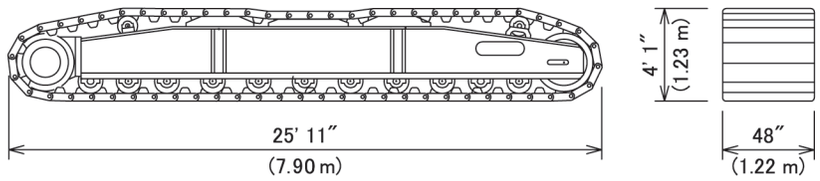
In addition Base Machine-2, optional Third drum and wire rope equipped.
Weight: 92,480 lbs (41,950 kg)





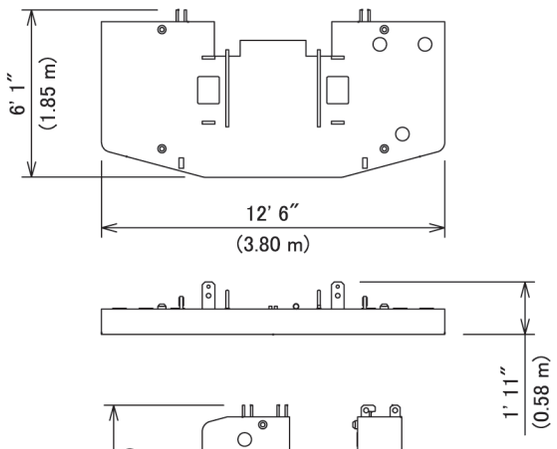
Crawler

Weight: 36,155 lbs (16,400 kg)



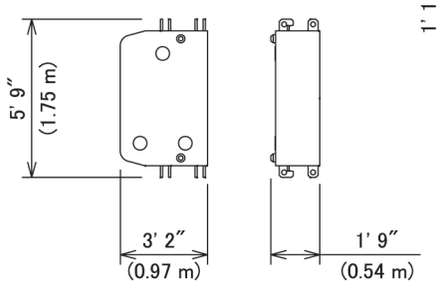
Counterweight (A)

Weight: 17,640 lbs (8,000 kg)



Counterweight (B)

Weight: 11,025 lbs (5,000 kg)



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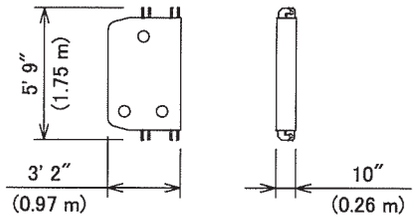
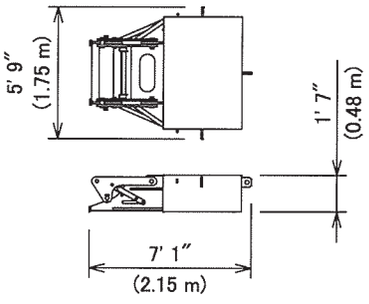
CK1600-II Dimension and Weight

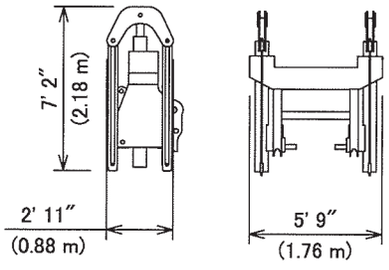
Counterweight (C) (optional)
Weight: 5,513 lbs (2,500 kg)



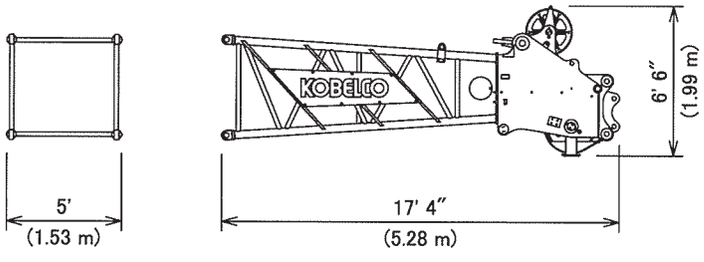
Carbody Weight (optional)
Weight: 11,025 lbs (5,000 kg)



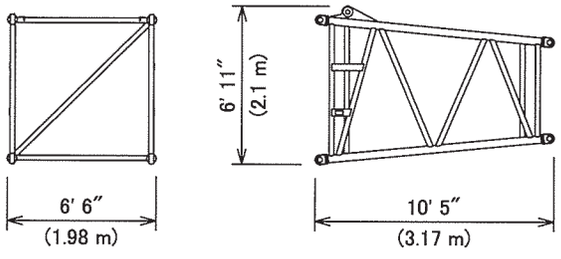
Counterweight Self-Removal Cylinde
Weight: 3,704 lbs (1,680 kg)



Boom Tip
Weight: 4,100 lbs (1,860 kg)
includes guy lines.



Taper Insert Boom
Weight: 1,190 lbs (540 kg)
includes cable roller.



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CK1600-II Dimension and Weight

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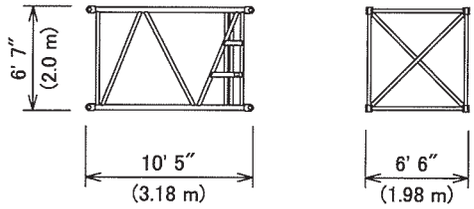
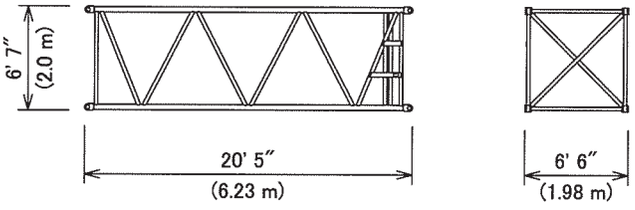
10 ft Insert Boom

Weight: 1,390 lbs (630 kg)
Includes cable roller and guy lines.



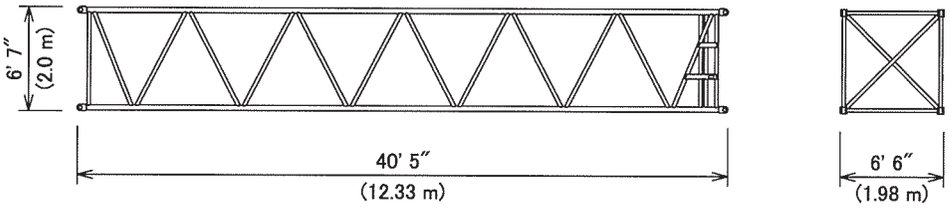
20 ft Insert Boom

Weight: 2,200 lbs (1,000 kg)
Includes cable roller and guy lines.



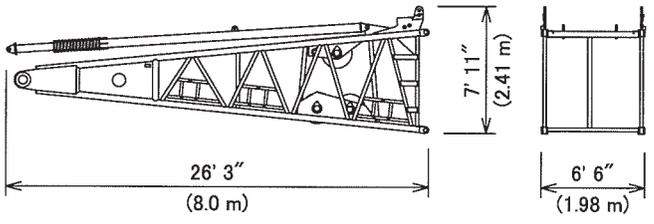
40 ft Insert Boom

Weight: 3,770 lbs (1,710 kg)
Includes cable roller and guy lines.



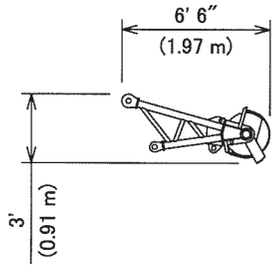
Boom Base with Backstop

Weight: 8,110 lbs (3,680 kg)



Auxiliary Sheave

Weight: 650 lbs (290 kg)



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CK1600-II Dimension and Weight

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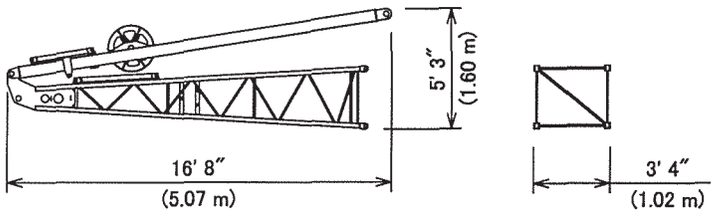
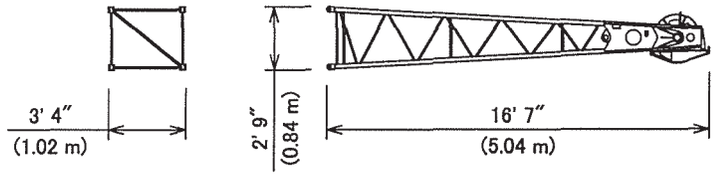
Jib Base with Strut

Weight: 2,270 lbs (1,030 kg)
Includes guy lines.



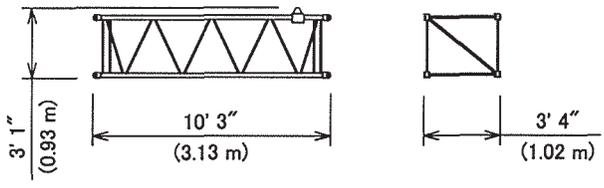
Jib Tip

Weight: 690 lbs (310 kg)
Includes cable roller



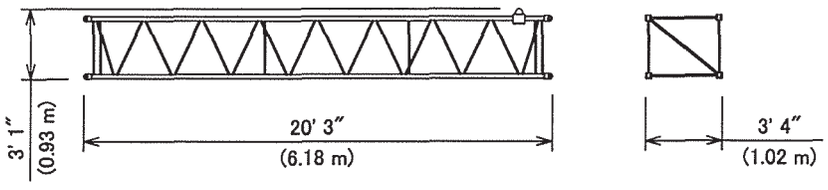
10 ft Insert Jib

Weight: 270 lbs (120 kg)
Includes cable roller



20 ft Insert Jib

Weight: 520 lbs (240 kg)
Includes cable roller and guy lines



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CK1600-II Dimension and Weight

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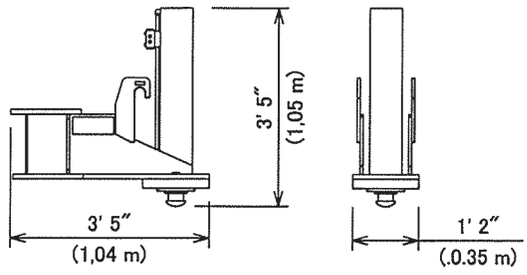
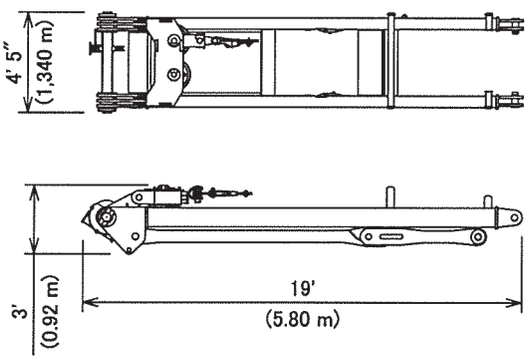
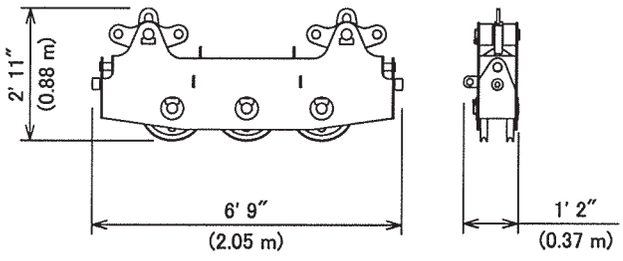
Translifter
Weight: 820 lbs (370 kg)



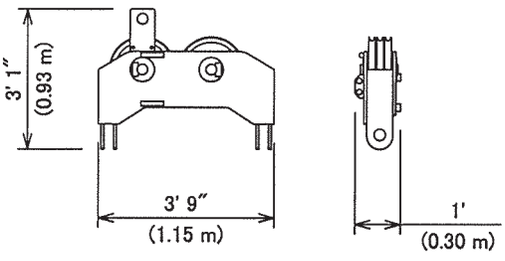
Gantry with Lower Spreader
Weight: 5,560 lbs (2,520 kg)



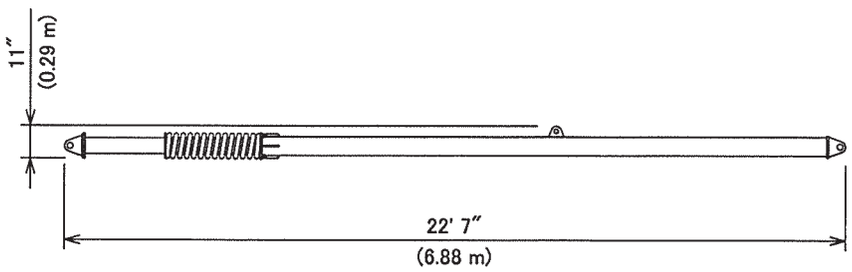
Upper Spreader
Weight: 1,070 lbs (485 kg)



Lower Spreader
Weight: 700 lbs (320 kg)



Boom Backstop
Weight: 1,140 lbs (515 kg)



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CK1600-II Transportation Plan

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250 ft boom and 100 ft jib

Description of item	Weight lbs (kg)	Trailer Loads #1	#2	#3	#4	#5	#6	#7
Base Machine with Boom Base	86,420 (39,200)	1						
Crawler	36,155 (16,400)		1	1				
Counterweight (A)	17,640 (8,000)					1		
Counterweight (B)	11,025 (5,000)				3	2	3	
Counterweight (C)	5,513 (2,500)							2
Carbody Weight	11,025 (5,000)							2
10 ft Insert Boom and Guy Line	1,390 (630)				1	1		
20 ft Inser Boom and Guy Line	2,200 (1,000)						1	
40 ft Insert Boom and Guy Line	3,770 (1,710)		1	1	1	1		
Taper Insert Boom	1,190 (540)						1	
Boom Tip and Guy Line	4,100 (1,860)						1	
Jib Base and Guy Line	2,270 (1,030)							1
10 ft Inser Jib	270 (120)							1
20 ft Insert Jib and Guy Line	520 (240)							3
Jib Tip	690 (310)							1
Approx. Total Shipping Weight	lbs (kg)	86,420 (39,200)	39,925 (18,110)	39,925 (18,110)	38,235 (17,340)	44,850 (20,340)	40,565 (18,400)	37,866 (17,180)

Target of payload: 45,000 lbs weight, 48 ft long, 8 ft 6 inch width and 13 ft 6 inch height from ground
Above plan may vary by each state low or specification of trailers.

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CK1600-II Transportation Plan

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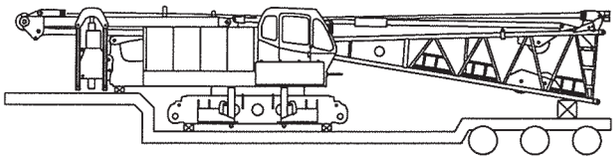
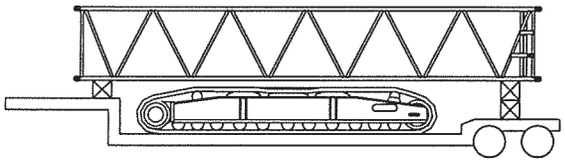
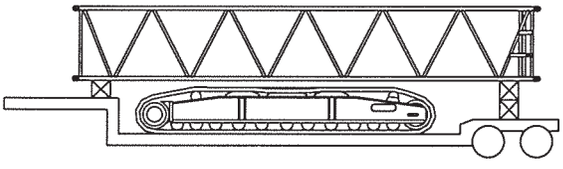
Trailer #1



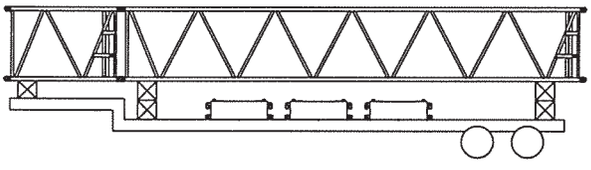
Trailer #2



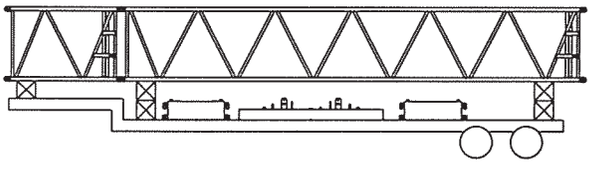
Trailer #3



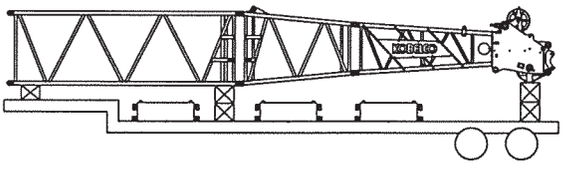
Trailer #4



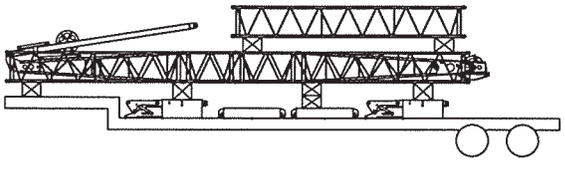
Trailer #5



Trailer #6



Trailer #7



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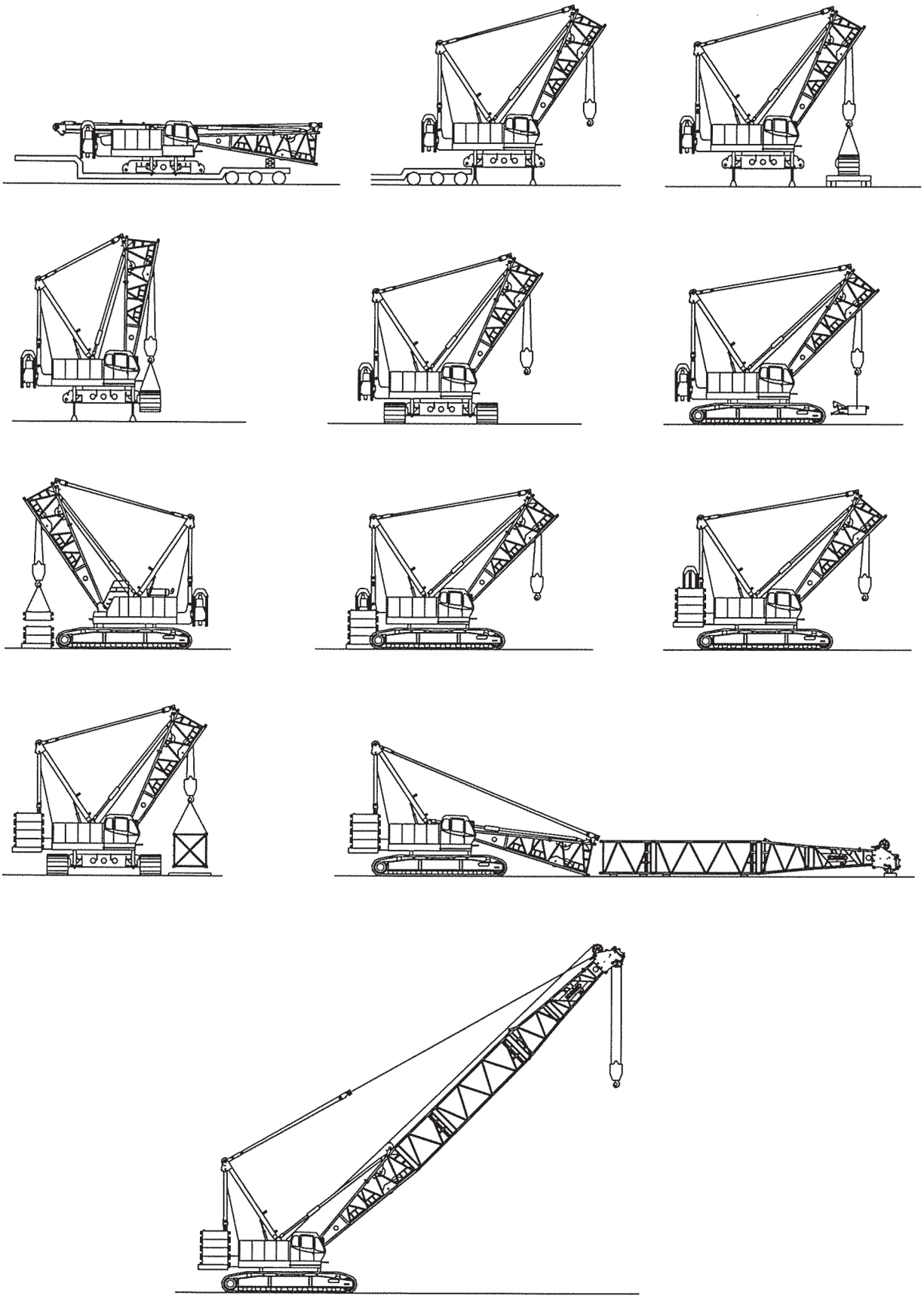
CK1600-II Self Assembly Procedure



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CK1600-II Boom and Jib Arrangement

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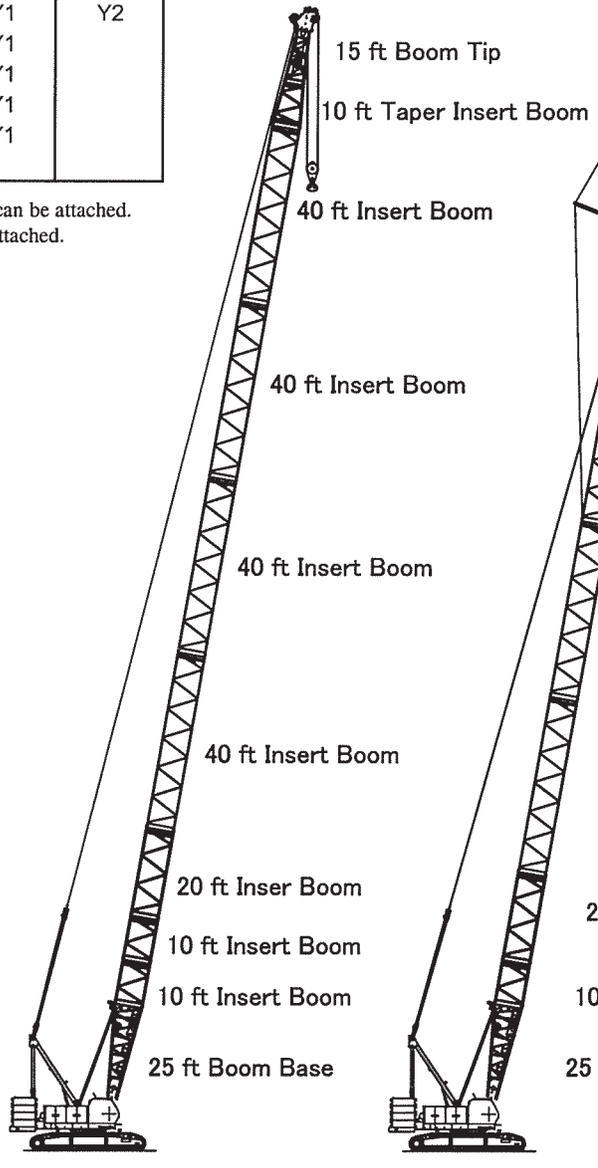
Boom Arrangement

Boom	Insert Boom 10 ft	Insert Boom 20 ft	Insert Boom 40 ft	Aux. Sheave	Fixed Jib
50 ft				Y1	
60 ft	1			Y1	
70 ft		1		Y1	
80 ft	1	1		Y1	
90 ft	2	1		Y1	Y2
100 ft	1	2		Y1	Y2
110 ft	2	2		Y1	Y2
120 ft	1	1	1	Y1	Y2
130 ft	2	1	1	Y1	Y2
140 ft	1	2	1	Y1	Y2
150 ft	2	2	1	Y1	Y2
160 ft	1	1	2	Y1	Y2
170 ft	2	1	2	Y1	Y2
180 ft	1	2	2	Y1	Y2
190 ft	2	2	2	Y1	Y2
200 ft	1	1	3	Y1	Y2
210 ft	2	1	3	Y1	
220 ft	1	2	3	Y1	
230 ft	2	2	3	Y1	
240 ft	1	1	4	Y1	
250 ft	2	1	4		

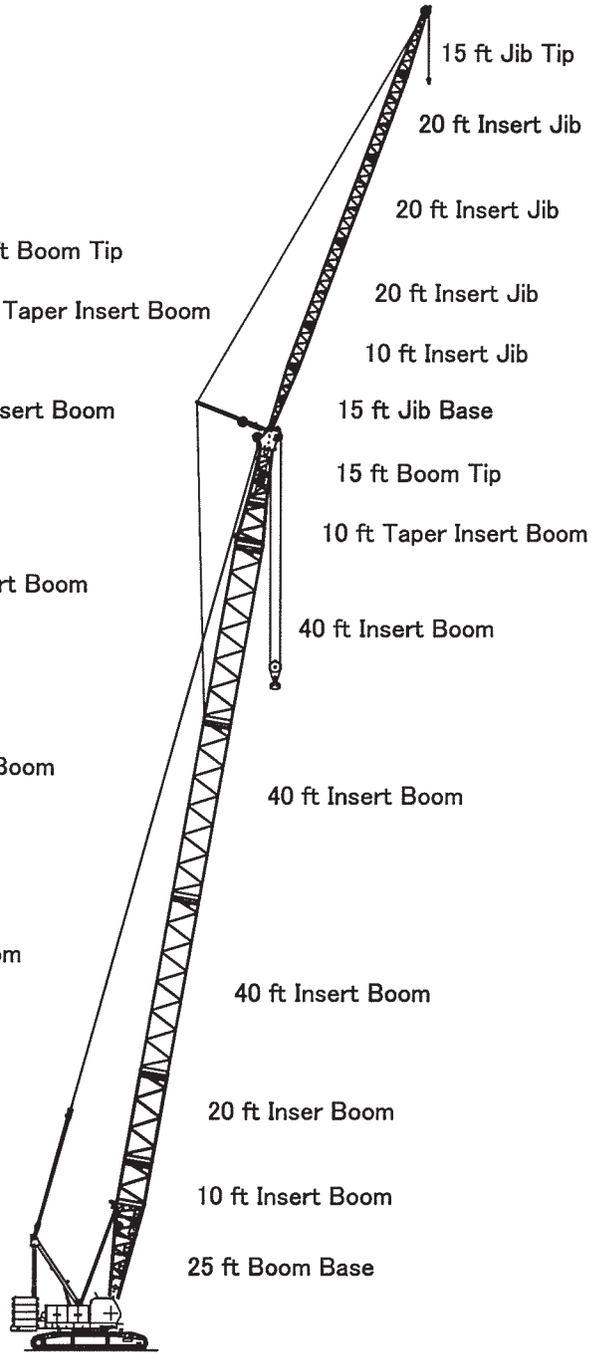
Y1: Auxiliary sheave can be attached.
Y2: Fixed jib can be attached.

Jib Arrangement

Jib	Insert Jib 10 ft	Insert Jib 20 ft
40 ft	1	
60 ft	1	1
80 ft	1	2
100 ft	1	3



250 ft (76.2 m) Main Boom



200 ft (60.1 m) Main Boom
and 100 ft (30.5 m) Jib

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CK1600-II Main Boom Working Range

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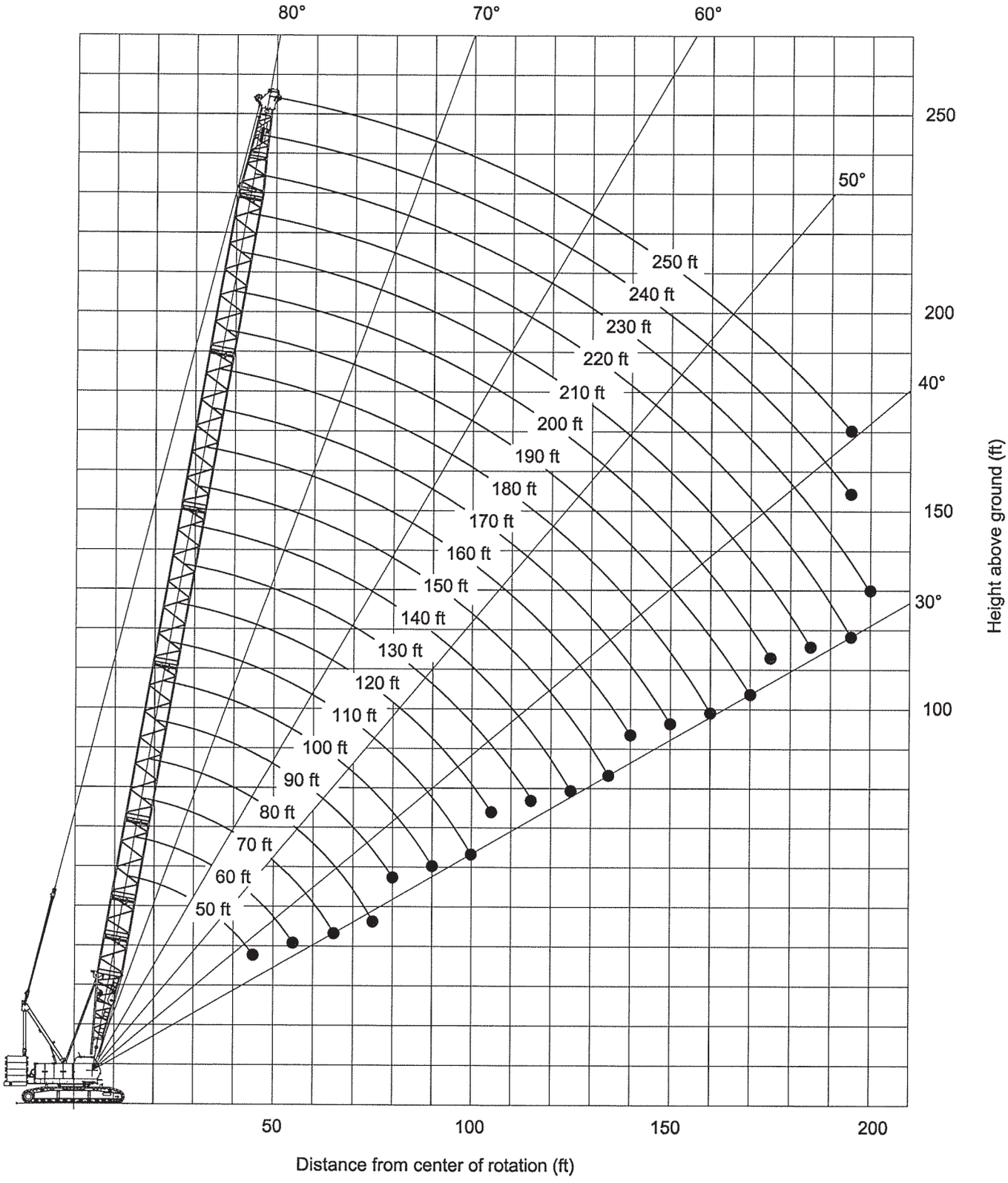

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CK1600-II Jib Working Range

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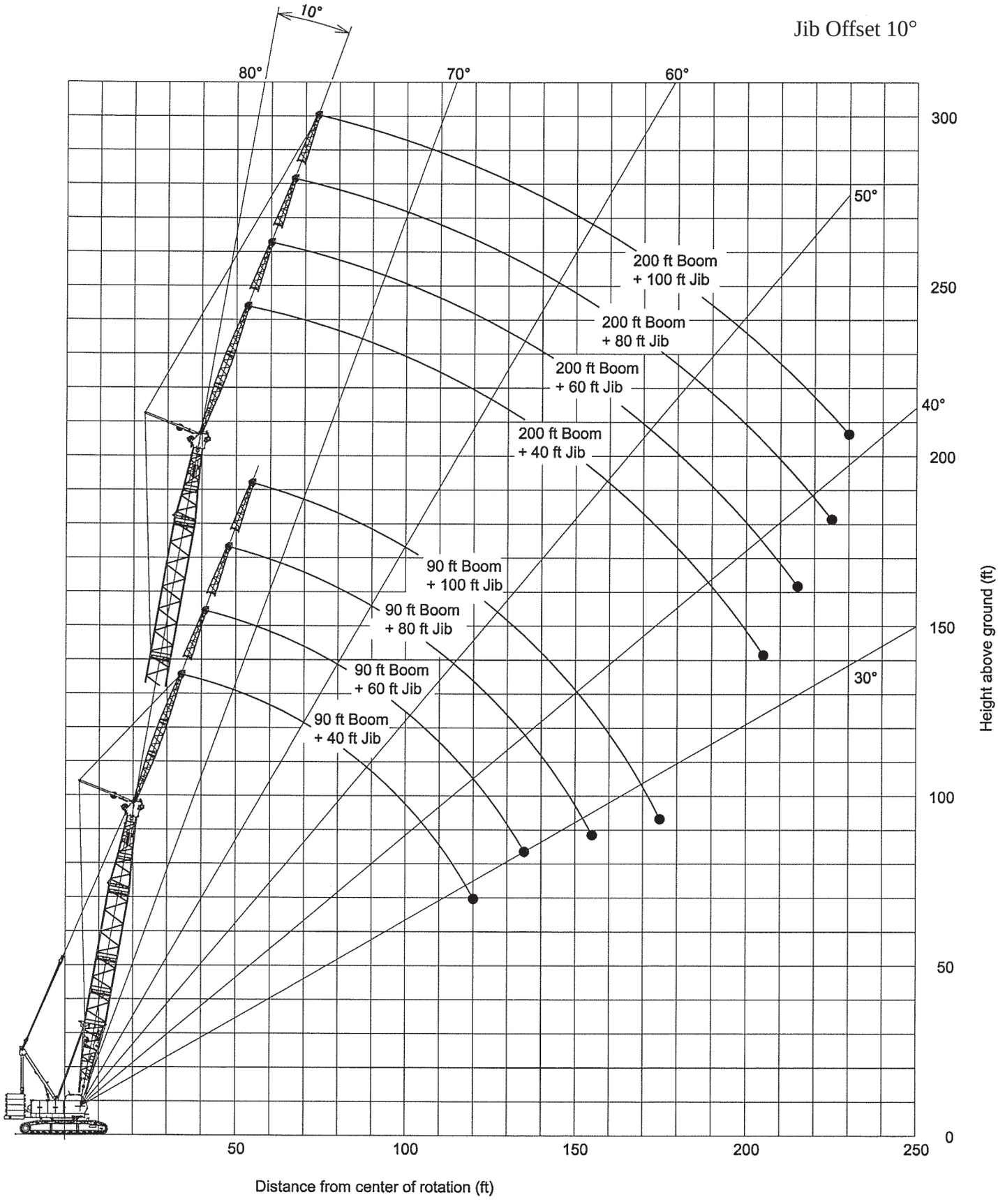

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CK1600-II Jib Working Range

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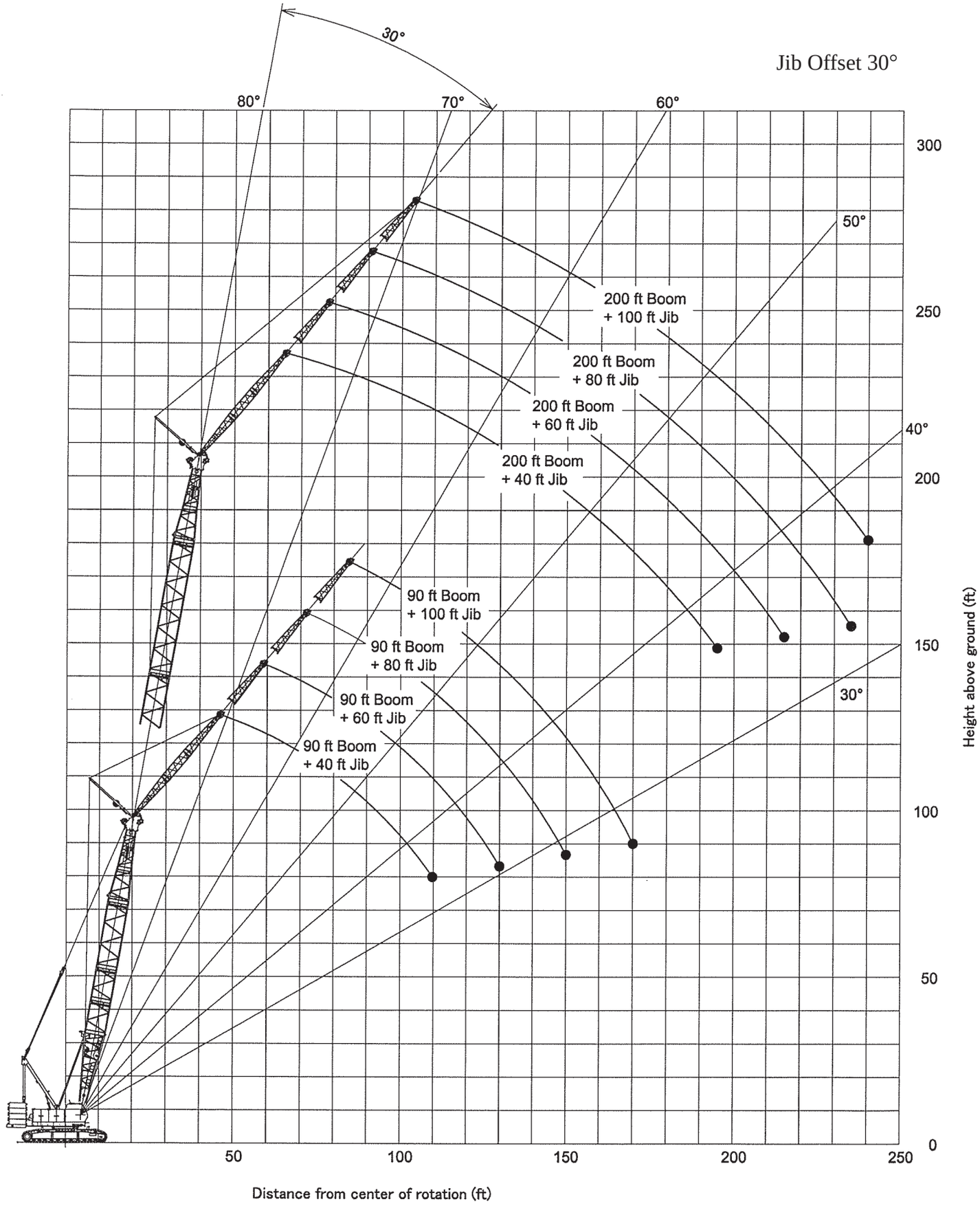

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KOBELCO CK1600-II Main boom rated loads in pounds

Counterweight: 116,840 lbs (53,000 kg)

Carbody weight: 22,050 lbs (10,000 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. 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.

Jib Length (ft)	Aux	40	60	80	100
Deductions (lbs)	1,250	7,055	8,010	8,965	9,920

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

9. Boom lengths for jib mounting are 90 ft (27.4 m) to 200 ft (61.0 m)

10. 40 ft (12.2m) jib length with offset angle of 10 degrees, and one part of line on the hook is not allowed.

11. The total load that can be lifted by the auxiliary sheave is: the rated load for the boom (without auxiliary sheave installed) minus 1,250 lbs; however, the auxiliary sheave rated load should not exceed 59,000 lbs.

12. Boom lengths that can attach auxiliary sheave are from 50 ft (15.2 m) to 240 ft (73.2 m).

13. The boom should be erected over the front of the crawlers, not laterally.
    When lifting from or lowering to the ground the boom at length of 240 ft (73.2 m) or over, the blocks must be placed at the end of crawlers.

14. Least stable position is over the side.

15. 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)	29,500	59,000	88,500	118,000	147,500

No. of Parts of line	6	7	8	9	10
Maximum Loads (lbs)	177,000	206,500	236,000	265,500	295,000

No. of Parts of line	11
Maximum Loads (lbs)	320,000

Main Load For Jib Hoist

No. of Parts of line	1	2
Maximum Loads (lbs)	29,500	59,000

Main Load for Auxialiary Sheave

No. of Parts of line	1	2
Maximum Loads (lbs)	29,500	59,000

16. Weight of the recommended hook block.

Hook Block	160 Ust	110 Ust	70 Ust	30 Ust	15 Ust ball hook
Weight (lbs)	5,275	3,960	2,775	2,200	1,315

17. 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.

18. 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

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CK1600-II Main Boom Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

50 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
15.0	79.9	320,000 *
16.0	78.7	300,100 *
17.0	77.5	282,500 *
18.0	76.3	266,800 *
19.0	75.1	252,700 *
20.0	73.9	240,100 *
22.0	71.5	218,300 *
24.0	69.1	197,700 *
26.0	66.5	177,400 *
28.0	64.0	160,400 *
30.0	61.4	145,900 *
32.0	58.7	133,300 *
34.0	55.9	122,100 *
36.0	53.0	112,200 *
38.0	50.0	103,300 *
40.0	46.8	95,200 *
45.0	38.0	76,900 *

60 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
17.0	79.6	280,000 *
18.0	78.7	266,000 *
19.0	77.7	251,900 *
20.0	76.7	239,300 *
22.0	74.7	218,000 *
24.0	72.7	197,500 *
26.0	70.7	178,300 *
28.0	68.6	162,200 *
30.0	66.5	148,300
32.0	64.4	134,900
34.0	62.2	123,600
36.0	60.0	113,900
38.0	57.7	105,800
40.0	55.4	98,500
45.0	49.3	83,900
50.0	42.4	72,000 *
55.0	34.4	60,100 *

70 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
19.0	79.5	251,100 *
20.0	78.6	238,500 *
22.0	76.9	217,100 *
24.0	75.3	194,600 *
26.0	73.5	176,300 *
28.0	71.8	160,900 *
30.0	70.1	147,900 *
32.0	68.3	134,700
34.0	66.5	123,400
36.0	64.7	113,700
38.0	62.8	105,500
40.0	61.0	98,300
45.0	56.1	83,700
50.0	50.9	72,700
55.0	45.3	64,300
60.0	39.0	57,300 *
65.0	31.7	48,700 *

80 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0	78.6	211,800 *
24.0	77.1	190,200 *
26.0	75.7	172,600 *
28.0	74.2	157,800 *
30.0	72.7	145,500 *
32.0	71.1	134,400
34.0	69.6	123,000
36.0	68.1	113,300
38.0	66.5	105,100
40.0	64.9	97,800
45.0	60.8	83,300
50.0	56.6	72,300
55.0	52.1	63,900
60.0	47.4	56,800
65.0	42.2	51,300
70.0	36.3	46,700 *
75.0	29.5	40,300 *

90 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0	79.9	207,600 *
24.0	78.6	186,500 *
26.0	77.3	169,000 *
28.0	76.0	154,700 *
30.0	74.6	142,600 *
32.0	73.3	132,200 *
34.0	72.0	122,700
36.0	70.6	113,000
38.0	69.3	104,700
40.0	67.9	97,400
45.0	64.4	82,800
50.0	60.8	72,000
55.0	57.0	63,400
60.0	53.1	56,400
65.0	48.9	50,900
70.0	44.4	46,200
75.0	39.6	42,300
80.0	34.1	38,800 *

100 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
24.0	79.8	183,400 *
26.0	78.6	166,400 *
28.0	77.4	152,300 *
30.0	76.2	140,400 *
32.0	75.0	130,200 *
34.0	73.8	121,400 *
36.0	72.6	112,800
38.0	71.4	104,700
40.0	70.2	97,400
45.0	67.1	82,800
50.0	63.9	71,800
55.0	60.7	63,200
60.0	57.3	56,400
65.0	53.8	50,700
70.0	50.1	46,000
75.0	46.2	41,800
80.0	42.0	38,500
85.0	37.4	35,700
90.0	32.3	32,800 *

110 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
26.0	79.6	164,200 *
28.0	78.6	150,100 *
30.0	77.5	138,200 *
32.0	76.4	128,300 *
34.0	75.4	119,400 *
36.0	74.3	111,900 *
38.0	73.2	104,400
40.0	72.1	97,200
45.0	69.3	82,600
50.0	66.5	71,600
55.0	63.6	63,000
60.0	60.6	56,200
65.0	57.5	50,400
70.0	54.4	45,600
75.0	51.1	41,600
80.0	47.6	38,300
85.0	43.9	35,200
90.0	39.9	32,800
95.0	35.6	30,400
100.0	30.7	27,900 *

120 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
28.0	79.5	147,000 *
30.0	78.6	135,500 *
32.0	77.6	125,600 *
34.0	76.6	117,000 *
36.0	75.6	109,500 *
38.0	74.6	102,900 *
40.0	73.6	96,700
45.0	71.1	82,200
50.0	68.6	71,200
55.0	65.9	62,600
60.0	63.3	55,500
65.0	60.6	50,000
70.0	57.8	45,100
75.0	54.9	41,200
80.0	51.9	37,600
85.0	48.7	34,800
90.0	45.4	32,100
95.0	41.9	29,900
100.0	38.1	27,900
105.0	34.0	26,000

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CK1600-II Main Boom Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

130 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
30.0	79.5	134,000 *
32.0	78.6	124,100 *
34.0	77.7	115,500 *
36.0	76.7	108,200 *
38.0	75.8	101,600 *
40.0	74.9	95,600 *
45.0	72.6	82,000
50.0	70.3	70,900
55.0	67.9	62,300
60.0	65.5	55,500
65.0	63.0	49,800
70.0	60.5	44,900
75.0	57.9	41,000
80.0	55.3	37,400
85.0	52.5	34,600
90.0	49.7	31,900
95.0	46.7	29,700
100.0	43.5	27,500
105.0	40.2	25,700
110.0	36.6	24,200
115.0	32.6	22,700 *

140 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
32.0	79.4	122,100 *
34.0	78.5	113,500 *
36.0	77.7	106,200 *
38.0	76.9	99,800 *
40.0	76.0	94,100 *
45.0	73.9	81,700
50.0	71.7	70,700
55.0	69.6	62,100
60.0	67.4	55,100
65.0	65.1	49,300
70.0	62.8	44,700
75.0	60.5	40,700
80.0	58.1	37,200
85.0	55.6	34,100
90.0	53.1	31,700
95.0	50.5	29,300
100.0	47.7	27,300
105.0	44.9	25,300
110.0	41.8	23,800
115.0	38.6	22,200
120.0	35.2	20,900
125.0	31.4	19,600 *

150 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
34.0	79.3	112,600 *
36.0	78.5	105,100 *
38.0	77.8	98,700 *
40.0	77.0	93,000 *
45.0	75.0	81,100 *
50.0	73.0	70,500
55.0	71.0	61,900
60.0	69.0	54,800
65.0	66.9	49,100
70.0	64.8	44,500
75.0	62.6	40,300
80.0	60.4	37,000
85.0	58.2	33,900
90.0	55.9	31,300
95.0	53.6	29,100
100.0	51.1	26,800
105.0	48.6	25,100
110.0	46.0	23,300
115.0	43.2	22,000
120.0	40.3	20,700
125.0	37.2	19,400
130.0	33.9	18,200 *
135.0	30.2	16,500 *

160 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
34.0	80.0	110,800 *
36.0	79.3	103,600 *
38.0	78.5	97,000 *
40.0	77.8	91,200 *
45.0	76.0	79,500 *
50.0	74.1	70,100
55.0	72.2	61,500
60.0	70.3	54,600
65.0	68.4	48,900
70.0	66.5	44,000
75.0	64.5	40,100
80.0	62.5	36,500
85.0	60.4	33,500
90.0	58.3	30,800
95.0	56.2	28,600
100.0	54.0	26,600
105.0	51.7	24,600
110.0	49.4	23,100
115.0	47.0	21,600
120.0	44.4	20,200
125.0	41.8	18,900
130.0	39.0	17,800
135.0	36.0	16,700
140.0	32.8	15,600 *

170 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
36.0	79.9	102,000 *
38.0	79.2	95,600 *
40.0	78.5	89,900 *
45.0	76.8	78,200 *
50.0	75.1	69,200 *
55.0	73.3	61,200
60.0	71.5	54,200
65.0	69.7	48,500
70.0	67.9	43,800
75.0	66.1	39,600
80.0	64.2	36,300
85.0	62.3	33,200
90.0	60.4	30,600
95.0	58.4	28,200
100.0	56.4	26,200
105.0	54.4	24,400
110.0	52.2	22,700
115.0	50.1	21,100
120.0	47.8	19,800
125.0	45.5	18,700
130.0	43.0	17,400
135.0	40.5	16,500
140.0	37.8	15,400
145.0	34.9	14,500
150.0	31.8	13,200 *

180 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
38.0	79.8	88,400 *
40.0	79.2	88,400 *
45.0	77.6	77,600 *
50.0	75.9	68,500 *
55.0	74.3	61,000 *
60.0	72.6	54,000
65.0	70.9	48,200
70.0	69.2	43,600
75.0	67.5	39,400
80.0	65.8	36,100
85.0	64.0	33,000
90.0	62.2	30,400
95.0	60.4	27,900
100.0	58.5	26,000
105.0	56.6	24,000
110.0	54.7	22,400
115.0	52.7	20,900
120.0	50.6	19,600
125.0	48.5	18,200
130.0	46.4	17,100
135.0	44.1	16,000
140.0	41.7	15,200
145.0	39.3	14,300
150.0	36.6	13,400 *
155.0	33.8	12,300 *
160.0	30.8	11,000 *

190 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
40.0	79.8	88,100 *
45.0	78.2	76,400 *
50.0	76.7	67,200 *
55.0	75.1	59,900 *
60.0	73.5	53,700
65.0	72.0	48,000
70.0	70.4	43,200
75.0	68.7	39,200
80.0	67.1	35,700
85.0	65.5	32,600
90.0	63.8	29,900
95.0	62.1	27,700
100.0	60.4	25,500
105.0	58.6	23,800
110.0	56.8	22,000
115.0	55.0	20,500
120.0	53.1	19,100
125.0	51.2	18,000
130.0	49.2	16,700
135.0	47.2	15,800
140.0	45.0	14,700
145.0	42.9	13,800
150.0	40.6	13,000
155.0	38.2	12,300 *
160.0	35.6	11,200 *
165.0	32.9	10,100 *
170.0	30.0	9,000 *

200 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
45.0	78.8	75,100 *
50.0	77.3	66,100 *
55.0	75.9	58,800 *
60.0	74.4	52,900 *
65.0	72.9	47,600
70.0	71.4	42,900
75.0	69.9	38,800
80.0	68.3	35,200
85.0	66.8	32,400
90.0	65.2	29,700
95.0	63.6	27,300
100.0	62.0	25,300
105.0	60.3	23,300
110.0	58.7	21,800
115.0	57.0	20,200
120.0	55.2	18,700
125.0	53.5	17,600
130.0	51.6	16,500
135.0	49.8	15,400
140.0	47.9	14,300
145.0	45.9	13,400
150.0	43.8	12,700
155.0	41.7	11,900
160.0	39.5	11,200 *
165.0	37.1	10,300 *
170.0	34.7	9,200 *
175.0	32.0	8,300 *

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CK1600-II Main Boom Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

210 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
45.0	79.4	73,800	*
50.0	78.0	65,000	*
55.0	76.6	57,700	*
60.0	75.1	51,800	*
65.0	73.7	46,900	*
70.0	72.3	42,500	
75.0	70.9	38,300	
80.0	69.4	34,800	
85.0	67.9	31,900	
90.0	66.5	29,300	
95.0	64.9	26,800	
100.0	63.4	24,900	
105.0	61.9	22,900	
110.0	60.3	21,300	
115.0	58.7	19,800	
120.0	57.1	18,500	
125.0	55.5	17,100	
130.0	53.8	16,000	
135.0	52.1	14,900	
140.0	50.3	13,800	
145.0	48.5	13,000	
150.0	46.6	12,300	
155.0	44.7	11,400	
160.0	42.7	10,500	
165.0	40.6	9,900	
170.0	38.5	9,200	*
175.0	36.2	8,100	*
180.0	33.8	7,200	*
185.0	31.2	6,300	*

220 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
45.0	79.8	58,800	*
50.0	78.5	58,800	*
55.0	77.2	57,700	*
60.0	75.8	51,800	*
65.0	74.5	46,700	*
70.0	73.1	42,300	*
75.0	71.8	38,300	
80.0	70.4	34,800	
85.0	69.0	31,700	
90.0	67.6	29,100	
95.0	66.2	26,800	
100.0	64.7	24,600	
105.0	63.3	22,900	
110.0	61.8	21,100	
115.0	60.3	19,600	
120.0	58.8	18,200	
125.0	57.2	16,900	
130.0	55.7	15,800	
135.0	54.1	14,700	
140.0	52.4	13,800	
145.0	50.8	13,000	
150.0	49.1	12,100	
155.0	47.3	11,200	
160.0	45.5	10,300	
165.0	43.6	9,700	
170.0	41.7	9,000	*
175.0	39.7	8,100	*
180.0	37.6	7,200	*
185.0	35.3	6,600	*
190.0	33.0	5,700	*
195.0	30.5	4,800	*

230 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
50.0	79.0	58,800	*
55.0	77.7	55,700	*
60.0	76.5	50,700	*
65.0	75.2	45,800	*
70.0	73.9	41,400	*
75.0	72.6	37,900	*
80.0	71.3	34,600	
85.0	69.9	31,500	
90.0	68.6	28,800	
95.0	67.3	26,400	
100.0	65.9	24,400	
105.0	64.5	22,400	
110.0	63.1	20,900	
115.0	61.7	19,400	
120.0	60.3	17,800	
125.0	58.8	16,700	
130.0	57.4	15,400	
135.0	55.9	14,500	
140.0	54.3	13,400	
145.0	52.8	12,500	
150.0	51.2	11,600	
155.0	49.6	10,800	
160.0	47.9	9,900	
165.0	46.2	9,200	
170.0	44.4	8,500	
175.0	42.6	7,900	*
180.0	40.7	7,000	*
185.0	38.7	6,300	*
190.0	36.7	5,700	*
195.0	34.5	4,800	*
200.0	32.2	4,100	*

240 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
50.0	79.5	54,400	*
55.0	78.3	51,300	*
60.0	77.0	48,200	*
65.0	75.8	44,700	*
70.0	74.6	40,500	*
75.0	73.3	37,000	*
80.0	72.1	33,700	*
85.0	70.8	31,000	*
90.0	69.5	28,400	
95.0	68.3	26,000	
100.0	67.0	24,000	
105.0	65.7	22,000	
110.0	64.3	20,500	
115.0	63.0	18,900	
120.0	61.7	17,600	
125.0	60.3	16,300	
130.0	58.9	15,200	
135.0	57.5	14,100	
140.0	56.0	13,000	
145.0	54.6	12,100	
150.0	53.1	11,000	
155.0	51.6	10,300	
160.0	50.0	9,400	
165.0	48.5	8,800	
170.0	46.8	7,900	
175.0	45.2	7,200	
180.0	43.4	6,800	*
185.0	41.7	6,100	*
190.0	39.8	5,200	*
195.0	37.9	4,600	*

250 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
50.0	79.9	50,200	*
55.0	78.7	47,300	*
60.0	77.6	44,500	*
65.0	76.4	42,100	*
70.0	75.2	39,600	*
75.0	74.0	36,100	*
80.0	72.8	33,000	*
85.0	71.6	30,200	*
90.0	70.4	27,900	*
95.0	69.2	25,700	*
100.0	67.9	23,500	
105.0	66.7	21,800	
110.0	65.4	20,000	
115.0	64.2	18,500	
120.0	62.9	17,100	
125.0	61.6	15,800	
130.0	60.3	14,700	
135.0	58.9	13,600	
140.0	57.6	12,500	

250 ' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
145.0	56.2	11,600	
150.0	54.8	10,800	
155.0	53.4	9,900	
160.0	51.9	9,000	
165.0	50.5	8,300	
170.0	49.0	7,400	
175.0	47.4	6,800	
180.0	45.8	6,300	*
185.0	44.2	5,700	*
190.0	42.5	5,000	*
195.0	40.8	4,400	*

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CK1600-II Jib Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

90 ft Boom

Load Radius (ft.)	40' Jib 10° Offset Boom Angle (deg.)	40' Jib 10° Offset Rated Load (lbs.)	40' Jib 30° Offset Boom Angle (deg.)	40' Jib 30° Offset Rated Load (lbs.)	60' Jib 10° Offset Boom Angle (deg.)	60' Jib 10° Offset Rated Load (lbs.)	60' Jib 30° Offset Boom Angle (deg.)	60' Jib 30° Offset Rated Load (lbs.)
34	79.5	59,000 *						
36	78.6	59,000 *						
38	77.7	59,000 *						
40	76.8	59,000 *			79.6	42,500 *		
42	75.8	58,800 *			78.8	42,200 *		
44	74.9	58,200 *			78.0	42,000 *		
46	74.0	57,600 *	79.5	40,100 *	77.2	41,700 *		
48	73.1	57,000 *	78.5	39,200 *	76.5	41,500 *		
50	72.2	56,400 *	77.5	38,200 *	75.7	41,300 *		
55	69.8	55,100 *	75.1	36,100 *	73.7	40,300 *		
60	67.4	53,900 *	72.7	34,300 *	71.6	39,300 *	78.8	27,000 *
65	65.0	51,000 *	70.2	32,600 *	69.6	38,400 *	76.6	25,500 *
70	62.5	47,200	67.6	31,200 *	67.5	36,100 *	74.5	24,200 *
75	59.9	43,100	64.9	29,800 *	65.4	33,600 *	72.3	23,100 *
80	57.3	39,600	62.2	28,700 *	63.2	31,500 *	70.0	22,000 *
85	54.5	36,600	59.4	27,600 *	61.0	29,600 *	67.7	21,100 *
90	51.7	33,900	56.5	26,700 *	58.7	27,900 *	65.4	20,200 *
95	48.8	31,600	53.4	25,900 *	56.3	26,400 *	62.9	19,400 *
100	45.6	29,500	50.1	25,100 *	53.9	25,100 *	60.4	18,700 *
105	42.3	27,700	46.6	24,500 *	51.4	23,900 *	57.8	18,100 *
110	38.8	26,000	42.9	23,900 *	48.8	22,800 *	55.1	17,500 *
115	34.9	24,400 *			46.1	21,800 *	52.2	17,000 *
120	30.6	21,900 *			43.2	20,900 *	49.2	16,600 *
125					40.2	20,100 *	45.9	16,100 *
130					36.9	19,400 *	42.3	15,800 *
135					33.3	18,700 *		

90 ft Boom

Load Radius (ft.)	80' Jib 10° Offset Boom Angle (deg.)	80' Jib 10° Offset Rated Load (lbs.)	80' Jib 30° Offset Boom Angle (deg.)	80' Jib 30° Offset Rated Load (lbs.)	100' Jib 10° Offset Boom Angle (deg.)	100' Jib 10° Offset Rated Load (lbs.)	100' Jib 30° Offset Boom Angle (deg.)	100' Jib 30° Offset Rated Load (lbs.)
46	79.7	22,000 *						
48	79.0	21,800 *						
50	78.3	21,600 *			79.6	13,200 *		
55	76.6	21,300 *			78.1	13,000 *		
60	74.8	20,900 *			76.5	12,700 *		
65	73.0	20,600 *			75.0	12,400 *		
70	71.2	20,000 *	79.7	16,700 *	73.4	12,100 *		
75	69.4	19,400 *	77.8	16,300 *	71.8	11,600 *		
80	67.5	18,700 *	75.9	15,900 *	70.1	11,200 *	79.8	9,100 *
85	65.7	18,100 *	74.0	15,500 *	68.5	10,800 *	78.1	8,900 *
90	63.7	17,600 *	72.0	15,200 *	66.8	10,400 *	76.4	8,600 *
95	61.8	17,100 *	69.9	14,900 *	65.1	10,000 *	74.6	8,400 *
100	59.8	16,600 *	67.9	14,500 *	63.4	9,700 *	72.8	8,200 *
105	57.7	16,200 *	65.7	13,900 *	61.7	9,400 *	71.0	8,000 *
110	55.6	15,800 *	63.5	13,500 *	59.9	9,100 *	69.2	7,800 *
115	53.5	15,400 *	61.3	13,000 *	58.1	8,800 *	67.3	7,600 *
120	51.2	15,000 *	58.9	12,600 *	56.2	8,500 *	65.4	7,400 *
125	48.9	14,700 *	56.5	12,200 *	54.3	8,300 *	63.4	7,300 *
130	46.5	14,400 *	53.9	11,900 *	52.3	8,100 *	61.3	7,100 *
135	43.9	14,100 *	51.2	11,500 *	50.3	7,900 *	59.2	7,000 *
140	41.3	13,900 *	48.3	11,200 *	48.2	7,700 *	57.0	6,900 *
145	38.4	13,600 *	45.2	11,000 *	46.0	7,500 *	54.7	6,800 *
150	35.4	13,400 *	41.9	10,800 *	43.8	7,300 *	52.3	6,700 *
155	32.0	13,200 *			41.4	7,100 *	49.8	6,600 *
160					38.9	7,000 *	47.1	6,500 *
165					36.2	6,900 *	44.2	6,500 *
170					33.3	6,700 *	41.0	6,400 *
175					30.2	6,600 *		

100 ft Boom

Load Radius (ft.)	40' Jib 10° Offset Boom Angle (deg.)	40' Jib 10° Offset Rated Load (lbs.)	40' Jib 30° Offset Boom Angle (deg.)	40' Jib 30° Offset Rated Load (lbs.)	60' Jib 10° Offset Boom Angle (deg.)	60' Jib 10° Offset Rated Load (lbs.)	60' Jib 30° Offset Boom Angle (deg.)	60' Jib 30° Offset Rated Load (lbs.)
36	79.4	59,000 *						
38	78.6	59,000 *						
40	77.7	59,000 *						
42	76.9	59,000 *			79.5	42,400 *		
44	76.0	58,900 *			78.8	42,200 *		
46	75.2	58,300 *			78.1	41,900 *		
48	74.3	57,700 *	79.4	40,000 *	77.3	41,700 *		
50	73.5	57,200 *	78.5	39,100 *	76.6	41,500 *		
55	71.3	55,900 *	76.3	37,100 *	74.7	40,800 *		
60	69.1	54,700 *	74.0	35,200 *	72.8	39,900 *	79.5	27,600 *
65	66.9	51,600	71.7	33,600 *	70.9	39,000 *	77.6	26,100 *
70	64.6	46,900	69.4	32,100 *	69.0	38,000 *	75.6	24,900 *
75	62.3	42,800	67.0	30,800 *	67.0	35,500 *	73.5	23,700 *
80	59.9	39,300	64.6	29,600 *	65.0	33,200 *	71.5	22,700 *
85	57.5	36,300	62.0	28,600 *	63.0	31,300 *	69.4	21,700 *
90	55.0	33,600	59.4	27,600 *	60.9	29,500 *	67.2	20,800 *
95	52.4	31,300	56.7	26,800 *	58.8	27,900 *	65.0	20,100 *
100	49.6	29,200	53.9	26,000 *	56.6	26,600 *	62.7	19,400 *
105	46.8	27,300	51.0	25,300 *	54.3	25,300 *	60.4	18,700 *
110	43.8	25,600	47.9	24,700 *	52.0	24,100 *	58.0	18,100 *
115	40.7	24,100	44.5	24,100 *	49.6	23,100 *	55.5	17,600 *
120	37.3	22,700	40.9	23,000	47.1	22,100 *	52.8	17,100 *
125	33.5	21,100 *			44.5	21,300 *	50.1	16,700 *
130					41.7	20,500 *	47.1	16,300 *
135					38.8	19,700	43.9	15,900 *
140					35.6	18,600 *	40.5	15,600 *
145					32.1	17,000 *		

100 ft Boom

Load Radius (ft.)	80' Jib 10° Offset Boom Angle (deg.)	80' Jib 10° Offset Rated Load (lbs.)	80' Jib 30° Offset Boom Angle (deg.)	80' Jib 30° Offset Rated Load (lbs.)	100' Jib 10° Offset Boom Angle (deg.)	100' Jib 10° Offset Rated Load (lbs.)	100' Jib 30° Offset Boom Angle (deg.)	100' Jib 30° Offset Rated Load (lbs.)
48	79.6	21,900 *						
50	79.0	21,800 *						
55	77.3	21,400 *			78.7	13,100 *		
60	75.7	21,100 *			77.2	12,800 *		
65	74.0	20,800 *			75.7	12,500 *		
70	72.3	20,500 *			74.2	12,300 *		
75	70.6	19,800 *	78.6	16,400 *	72.7	11,900 *		
80	68.9	19,200 *	76.8	16,000 *	71.2	11,500 *		
85	67.1	18,600 *	75.0	15,700 *	69.6	11,000 *	78.7	8,900 *
90	65.3	18,000 *	73.1	15,400 *	68.1	10,700 *	77.1	8,700 *
95	63.5	17,500 *	71.2	15,100 *	66.5	10,300 *	75.5	8,500 *
100	61.7	17,100 *	69.3	14,800 *	64.9	10,000 *	73.8	8,300 *
105	59.8	16,600 *	67.4	14,300 *	63.2	9,700 *	72.1	8,100 *
110	57.9	16,200 *	65.4	13,800 *	61.6	9,300 *	70.4	7,900 *
115	55.9	15,800 *	63.3	13,400 *	59.9	9,100 *	68.7	7,700 *
120	53.9	15,400 *	61.2	13,000 *	58.2	8,800 *	66.9	7,500 *
125	51.8	15,100 *	59.0	12,600 *	56.4	8,500 *	65.1	7,400 *
130	49.6	14,800 *	56.7	12,200 *	54.6	8,300 *	63.2	7,200 *
135	47.4	14,500 *	54.3	11,900 *	52.7	8,100 *	61.3	7,100 *
140	45.0	14,200 *	51.9	11,600 *	50.8	7,900 *	59.3	7,000 *
145	42.6	14,000 *	49.2	11,300 *	48.9	7,700 *	57.2	6,900 *
150	40.0	13,700 *	46.4	11,100 *	46.8	7,500 *	55.1	6,800 *
155	37.2	13,500 *	43.4	10,800 *	44.7	7,400 *	52.8	6,700 *
160	34.2	13,300 *	40.2	10,600 *	42.5	7,200 *	50.5	6,600 *
165	31.0	13,200 *			40.2	7,000 *	48.0	6,500 *
170					37.8	6,900 *	45.4	6,500 *
175					35.2	6,800 *	42.6	6,400 *
180					32.4	6,700 *		

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CK1600-II Jib Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

110 ft Boom

Load Radius (ft.)	40' Jib 10° Offset Boom Angle (deg.)	40' Jib 10° Offset Rated Load (lbs.)	40' Jib 30° Offset Boom Angle (deg.)	40' Jib 30° Offset Rated Load (lbs.)	60' Jib 10° Offset Boom Angle (deg.)	60' Jib 10° Offset Rated Load (lbs.)	60' Jib 30° Offset Boom Angle (deg.)	60' Jib 30° Offset Rated Load (lbs.)
38	79.3	59,000 *						
40	78.6	59,000 *						
42	77.8	59,000 *						
44	77.0	59,000 *			79.5	42,300 *		
46	76.2	58,900 *			78.8	42,100 *		
48	75.4	58,400 *			78.1	41,900 *		
50	74.6	57,800 *	79.3	39,900 *	77.4	41,700 *		
55	72.6	56,600 *	77.3	37,900 *	75.6	41,200 *		
60	70.6	55,400 *	75.2	36,100 *	73.9	40,300 *		
65	68.5	51,300	73.1	34,500 *	72.1	39,500 *	78.4	26,700 *
70	66.4	46,500	70.9	33,000 *	70.3	38,600 *	76.5	25,400 *
75	64.3	42,500	68.8	31,700 *	68.5	37,300 *	74.6	24,300 *
80	62.1	38,900	66.5	30,500 *	66.6	35,000 *	72.7	23,300 *
85	59.9	35,900	64.2	29,500 *	64.7	32,900 *	70.8	22,300 *
90	57.6	33,300	61.9	28,500 *	62.8	31,100 *	68.8	21,400 *
95	55.3	30,900	59.5	27,600 *	60.8	29,400 *	66.8	20,700 *
100	52.9	28,800	57.0	26,800 *	58.8	28,000 *	64.7	19,900 *
105	50.4	27,000	54.4	26,100 *	56.8	26,600 *	62.6	19,300 *
110	47.8	25,300	51.7	25,400 *	54.7	25,400 *	60.4	18,700 *
115	45.1	23,800	48.9	24,100	52.5	24,200	58.1	18,100 *
120	42.2	22,400	45.9	22,700	50.3	22,800	55.8	17,600 *
125	39.2	21,100	42.6	21,400	48.0	21,500	53.3	17,200 *
130	35.9	20,000			45.6	20,400	50.8	16,700 *
135	32.3	18,200 *			43.0	19,300	48.1	16,400 *
140					40.4	18,300	45.3	16,000 *
145					37.5	17,400	42.2	15,700 *
150					34.4	16,200 *		
155					31.1	14,800 *		

110 ft Boom

Load Radius (ft.)	80' Jib 10° Offset Boom Angle (deg.)	80' Jib 10° Offset Rated Load (lbs.)	80' Jib 30° Offset Boom Angle (deg.)	80' Jib 30° Offset Rated Load (lbs.)	100' Jib 10° Offset Boom Angle (deg.)	100' Jib 10° Offset Rated Load (lbs.)	100' Jib 30° Offset Boom Angle (deg.)	100' Jib 30° Offset Rated Load (lbs.)
50	79.6	21,900 *						
55	78.0	21,600 *			79.3	13,100 *		
60	76.5	21,200 *			77.8	12,900 *		
65	74.9	20,900 *			76.4	12,600 *		
70	73.3	20,600 *			75.0	12,400 *		
75	71.7	20,200 *	79.2	16,600 *	73.6	12,200 *		
80	70.1	19,600 *	77.6	16,200 *	72.1	11,700 *		
85	68.4	19,000 *	75.9	15,800 *	70.7	11,300 *	79.3	9,000 *
90	66.8	18,400 *	74.1	15,500 *	69.2	10,900 *	77.8	8,800 *
95	65.1	17,900 *	72.4	15,200 *	67.7	10,600 *	76.3	8,500 *
100	63.3	17,500 *	70.6	14,900 *	66.2	10,200 *	74.7	8,300 *
105	61.6	17,000 *	68.8	14,700 *	64.6	9,900 *	73.1	8,200 *
110	59.8	16,600 *	66.9	14,200 *	63.1	9,600 *	71.5	8,000 *
115	58.0	16,200 *	65.0	13,800 *	61.5	9,300 *	69.9	7,800 *
120	56.1	15,800 *	63.1	13,300 *	59.9	9,100 *	68.2	7,600 *
125	54.2	15,500 *	61.1	12,900 *	58.3	8,800 *	66.5	7,500 *
130	52.2	15,200 *	59.1	12,600 *	56.6	8,600 *	64.8	7,300 *
135	50.2	14,900 *	56.9	12,200 *	54.9	8,300 *	63.0	7,200 *
140	48.1	14,600 *	54.7	11,900 *	53.1	8,100 *	61.2	7,100 *
145	45.9	14,300 *	52.4	11,600 *	51.3	7,900 *	59.3	7,000 *
150	43.7	14,100 *	50.0	11,400 *	49.5	7,800 *	57.4	6,900 *
155	41.3	13,800 *	47.5	11,100 *	47.6	7,600 *	55.4	6,800 *
160	38.8	13,600 *	44.7	10,900 *	45.6	7,400 *	53.3	6,700 *
165	36.1	13,400 *	41.8	10,700 *	43.5	7,200 *	51.1	6,600 *
170	33.2	13,300 *			41.4	7,100 *	48.8	6,500 *
175	30.0	12,500 *			39.2	7,000 *	46.4	6,500 *
180					36.8	6,900 *	43.8	6,400 *
185					34.2	6,700 *	41.1	6,400 *
190					31.5	6,700 *		

120 ft Boom

Load Radius (ft.)	40' Jib 10° Offset Boom Angle (deg.)	40' Jib 10° Offset Rated Load (lbs.)	40' Jib 30° Offset Boom Angle (deg.)	40' Jib 30° Offset Rated Load (lbs.)	60' Jib 10° Offset Boom Angle (deg.)	60' Jib 10° Offset Rated Load (lbs.)	60' Jib 30° Offset Boom Angle (deg.)	60' Jib 30° Offset Rated Load (lbs.)
38	80.0	59,000 *						
40	79.3	59,000 *						
42	78.5	59,000 *						
44	77.8	59,000 *						
46	77.1	59,000 *			79.4	42,300 *		
48	76.3	59,000 *			78.8	42,100 *		
50	75.6	58,500 *	80.0	40,600 *	78.1	41,900 *		
55	73.7	57,200 *	78.1	38,700 *	76.5	41,400 *		
60	71.8	56,100 *	76.2	36,900 *	74.8	40,700 *		
65	69.9	50,900	74.2	35,300 *	73.1	39,900 *	79.1	27,200 *
70	68.0	46,100	72.2	33,900 *	71.4	39,100 *	77.3	25,900 *
75	66.0	42,000	70.2	32,600 *	69.7	38,400 *	75.6	24,800 *
80	64.0	38,500	68.2	31,400 *	68.0	36,600 *	73.8	23,800 *
85	62.0	35,400	66.1	30,300 *	66.2	34,500 *	72.0	22,900 *
90	59.9	32,800	64.0	29,300 *	64.5	32,600 *	70.1	22,000 *
95	57.8	30,400	61.8	28,400 *	62.6	30,900 *	68.3	21,200 *
100	55.6	28,300	59.5	27,600 *	60.8	28,800	66.3	20,500 *
105	53.4	26,500	57.2	26,800 *	58.9	26,900	64.4	19,800 *
110	51.1	24,800	54.8	25,300	57.0	25,200	62.4	19,200 *
115	48.7	23,300	52.3	23,700	55.0	23,700	60.3	18,700 *
120	46.2	21,900	49.7	22,300	53.0	22,300	58.2	18,200 *
125	43.5	20,600	47.0	21,000	50.9	21,000	56.1	17,700 *
130	40.8	19,500	44.1	19,800	48.7	19,900	53.8	17,200 *
135	37.8	18,400	41.0	18,700	46.5	18,800	51.4	16,800 *
140	34.7	17,100 *			44.1	17,800	49.0	16,500 *
145	31.2	15,500 *			41.7	16,900	46.4	16,200 *
150					39.1	16,100	43.6	15,800 *
155					36.4	15,100 *	40.6	15,600 *
160					33.4	13,800 *		
165					30.1	12,600 *		

120 ft Boom

Load Radius (ft.)	80' Jib 10° Offset Boom Angle (deg.)	80' Jib 10° Offset Rated Load (lbs.)	80' Jib 30° Offset Boom Angle (deg.)	80' Jib 30° Offset Rated Load (lbs.)	100' Jib 10° Offset Boom Angle (deg.)	100' Jib 10° Offset Rated Load (lbs.)	100' Jib 30° Offset Boom Angle (deg.)	100' Jib 30° Offset Rated Load (lbs.)
55	78.6	21,700 *			79.7	13,200 *		
60	77.2	21,400 *			78.4	13,000 *		
65	75.7	21,000 *			77.1	12,700 *		
70	74.2	20,800 *			75.7	12,500 *		
75	72.7	20,500 *	79.8	16,700 *	74.4	12,300 *		
80	71.1	19,900 *	78.2	16,300 *	73.0	12,000 *		
85	69.6	19,400 *	76.6	16,000 *	71.6	11,500 *	79.9	9,100 *
90	68.0	18,800 *	75.0	15,700 *	70.2	11,100 *	78.4	8,900 *
95	66.4	18,300 *	73.4	15,400 *	68.8	10,800 *	77.0	8,600 *
100	64.8	17,900 *	71.7	15,100 *	67.3	10,500 *	75.5	8,400 *
105	63.2	17,400 *	70.0	14,900 *	65.9	10,100 *	74.0	8,200 *
110	61.5	17,000 *	68.3	14,600 *	64.4	9,800 *	72.5	8,100 *
115	59.8	16,600 *	66.6	14,100 *	62.9	9,600 *	71.0	7,900 *
120	58.1	16,200 *	64.8	13,700 *	61.4	9,300 *	69.4	7,700 *
125	56.3	15,900 *	62.9	13,300 *	59.9	9,000 *	67.8	7,600 *
130	54.5	15,500 *	61.0	12,900 *	58.3	8,800 *	66.2	7,400 *
135	52.7	15,200 *	59.1	12,600 *	56.7	8,600 *	64.5	7,300 *
140	50.8	14,900 *	57.1	12,300 *	55.1	8,300 *	62.8	7,200 *
145	48.8	14,700 *	55.0	11,900 *	53.5	8,200 *	61.1	7,100 *
150	46.8	14,400 *	52.9	11,700 *	51.8	8,000 *	59.3	7,000 *
155	44.6	14,100 *	50.7	11,400 *	50.0	7,800 *	57.5	6,900 *
160	42.4	13,900 *	48.3	11,200 *	48.2	7,600 *	55.6	6,800 *
165	40.1	13,700 *	45.8	11,000 *	46.4	7,500 *	53.7	6,700 *
170	37.7	13,500 *	43.2	10,800 *	44.4	7,300 *	51.6	6,600 *
175	35.1	12,700 *	40.3	10,600 *	42.4	7,200 *	49.5	6,500 *
180	32.3	11,700 *			40.3	7,000 *	47.3	6,500 *
185					38.2	6,900 *	44.9	6,400 *
190					35.8	6,800 *	42.4	6,400 *
195					33.4	6,700 *		
200					30.7	6,600 *		

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CK1600-II Jib Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

130 ft Boom

Load Radius (ft.)	40' Jib, 10° Offset: Boom Angle (deg.)	40' Jib, 10° Offset: Rated Load (lbs.)	40' Jib, 30° Offset: Boom Angle (deg.)	40' Jib, 30° Offset: Rated Load (lbs.)	60' Jib, 10° Offset: Boom Angle (deg.)	60' Jib, 10° Offset: Rated Load (lbs.)	60' Jib, 30° Offset: Boom Angle (deg.)	60' Jib, 30° Offset: Rated Load (lbs.)
40	79.9	59,000 *						
42	79.2	59,000 *						
44	78.5	59,000 *						
46	77.9	59,000 *			80.0	42,400 *		
48	77.2	59,000 *			79.4	42,200 *		
50	76.5	59,000 *			78.7	42,000 *		
55	74.7	57,800 *	78.8	39,400 *	77.2	41,600 *		
60	73.0	56,400	77.0	37,600 *	75.6	41,100 *		
65	71.2	50,600	75.2	36,100 *	74.1	40,300 *	79.7	27,700 *
70	69.4	45,800	73.4	34,600 *	72.5	39,500 *	78.0	26,400 *
75	67.5	41,700	71.5	33,300 *	70.9	38,800 *	76.4	25,300 *
80	65.7	38,200	69.6	32,200 *	69.2	38,100 *	74.7	24,300 *
85	63.8	35,100	67.7	31,100 *	67.6	35,700	73.0	23,400 *
90	61.9	32,500	65.7	30,100 *	65.9	33,000	71.3	22,500 *
95	59.9	30,100	63.7	29,200 *	64.2	30,600	69.6	21,800 *
100	57.9	28,000	61.7	28,300 *	62.5	28,500	67.8	21,000 *
105	55.9	26,100	59.6	26,800	60.8	26,600	66.0	20,400 *
110	53.8	24,500	57.4	25,000	59.0	24,900	64.1	19,700 *
115	51.6	22,900	55.2	23,400	57.1	23,400	62.3	19,200 *
120	49.4	21,600	52.8	22,000	55.3	22,000	60.3	18,600 *
125	47.1	20,300	50.4	20,700	53.4	20,700	58.3	18,200 *
130	44.7	19,100	47.9	19,500	51.4	19,500	56.3	17,700 *
135	42.1	18,100	45.3	18,400	49.4	18,500	54.2	17,300 *
140	39.4	17,100	42.5	17,300	47.3	17,500	52.0	16,900 *
145	36.6	16,000 *			45.1	16,600	49.7	16,600 *
150	33.5	14,600 *			42.8	15,700	47.3	16,200 *
155	30.2	13,200 *			40.5	14,900	44.8	15,500
160					38.0	14,100 *	42.1	14,700
165					35.3	13,000 *		
170					32.4	11,900 *		

130 ft Boom

Load Radius (ft.)	80' Jib, 10° Offset: Boom Angle (deg.)	80' Jib, 10° Offset: Rated Load (lbs.)	80' Jib, 30° Offset: Boom Angle (deg.)	80' Jib, 30° Offset: Rated Load (lbs.)	100' Jib, 10° Offset: Boom Angle (deg.)	100' Jib, 10° Offset: Rated Load (lbs.)	100' Jib, 30° Offset: Boom Angle (deg.)	100' Jib, 30° Offset: Rated Load (lbs.)
55	79.2	21,800 *						
60	77.8	21,500 *			78.9	13,000 *		
65	76.4	21,200 *			77.6	12,800 *		
70	74.9	20,900 *			76.4	12,600 *		
75	73.5	20,600 *			75.1	12,400 *		
80	72.1	20,300 *	78.9	16,400 *	73.7	12,200 *		
85	70.6	19,700 *	77.3	16,100 *	72.4	11,800 *		
90	69.1	19,200 *	75.8	15,800 *	71.1	11,400 *	79.0	8,900 *
95	67.6	18,700 *	74.3	15,500 *	69.8	11,000 *	77.6	8,700 *
100	66.1	18,200 *	72.7	15,200 *	68.4	10,700 *	76.2	8,500 *
105	64.6	17,800 *	71.1	15,000 *	67.0	10,400 *	74.8	8,300 *
110	63.0	17,300 *	69.5	14,800 *	65.6	10,100 *	73.4	8,200 *
115	61.4	16,900 *	67.9	14,400 *	64.2	9,800 *	71.9	8,000 *
120	59.8	16,600 *	66.2	14,000 *	62.8	9,500 *	70.4	7,800 *
125	58.2	16,200 *	64.5	13,600 *	61.4	9,300 *	68.9	7,700 *
130	56.5	15,900 *	62.8	13,200 *	59.9	9,000 *	67.4	7,500 *
135	54.8	15,600 *	61.0	12,900 *	58.4	8,800 *	65.9	7,400 *
140	53.0	15,300 *	59.2	12,600 *	56.9	8,600 *	64.3	7,300 *
145	51.2	15,000 *	57.3	12,300 *	55.3	8,400 *	62.7	7,200 *
150	49.4	14,700 *	55.3	12,000 *	53.8	8,200 *	61.1	7,000 *
155	47.5	14,500 *	53.3	11,700 *	52.1	8,000 *	59.4	6,900 *
160	45.5	14,200 *	51.2	11,500 *	50.5	7,800 *	57.6	6,900 *
165	43.4	13,900	49.1	11,200 *	48.8	7,700 *	55.9	6,800 *
170	41.3	13,300	46.8	11,000 *	47.0	7,500 *	54.0	6,700 *
175	39.0	12,700	44.3	10,900 *	45.2	7,400 *	52.1	6,600 *
180	36.7	11,900 *	41.8	10,700 *	43.3	7,200 *	50.1	6,500 *
185	34.1	11,000 *			41.4	7,100 *	48.1	6,500 *
190	31.4	10,000 *			39.4	7,000 *	45.9	6,400 *
195					37.2	6,900 *	43.6	6,400 *
200					35.0	6,800 *	41.1	6,400 *
205					32.5	6,700 *		

140 ft Boom

Load Radius (ft.)	40' Jib, 10° Offset: Boom Angle (deg.)	40' Jib, 10° Offset: Rated Load (lbs.)	40' Jib, 30° Offset: Boom Angle (deg.)	40' Jib, 30° Offset: Rated Load (lbs.)	60' Jib, 10° Offset: Boom Angle (deg.)	60' Jib, 10° Offset: Rated Load (lbs.)	60' Jib, 30° Offset: Boom Angle (deg.)	60' Jib, 30° Offset: Rated Load (lbs.)
42	79.8	59,000 *						
44	79.2	59,000 *						
46	78.5	59,000 *						
48	77.9	59,000 *			79.9	42,400 *		
50	77.2	59,000 *			79.3	42,200 *		
55	75.6	58,400 *	79.5	40,000 *	77.8	41,700 *		
60	73.9	56,100	77.8	38,300 *	76.4	41,300 *		
65	72.3	50,300	76.1	36,700 *	74.9	40,700 *		
70	70.6	45,500	74.4	35,400 *	73.4	39,900 *	78.7	26,900 *
75	68.9	41,400	72.6	34,100 *	71.9	39,200 *	77.1	25,800 *
80	67.1	37,800	70.9	32,900 *	70.3	38,400	75.6	24,800 *
85	65.4	34,800	69.1	31,800 *	68.8	35,300	74.0	23,900 *
90	63.6	32,100	67.2	30,800 *	67.2	32,600	72.4	23,000 *
95	61.8	29,800	65.4	29,900 *	65.6	30,300	70.7	22,200 *
100	59.9	27,700	63.5	28,400	64.0	28,200	69.1	21,500 *
105	58.0	25,800	61.6	26,500	62.4	26,300	67.4	20,800 *
110	56.1	24,100	59.6	24,700	60.7	24,600	65.7	20,200 *
115	54.1	22,600	57.5	23,100	59.0	23,000	63.9	19,700 *
120	52.1	21,200	55.5	21,700	57.3	21,600	62.1	19,100 *
125	50.0	19,900	53.3	20,400	55.5	20,300	60.3	18,600 *
130	47.9	18,800	51.1	19,200	53.7	19,200	58.4	18,200 *
135	45.6	17,700	48.7	18,000	51.9	18,100	56.5	17,700 *
140	43.3	16,700	46.3	17,000	50.0	17,100	54.5	17,300 *
145	40.8	15,800	43.7	16,100	48.0	16,200	52.5	16,900
150	38.3	14,900 *	41.0	15,200	46.0	15,300	50.3	16,000
155	35.5	13,600 *			43.9	14,600	48.1	15,200
160	32.5	12,400 *			41.7	13,800	45.8	14,400
165					39.3	13,000 *	43.3	13,700
170					36.9	12,100 *	40.7	13,000
175					34.3	11,100 *		
180					31.5	10,100 *		

140 ft Boom

Load Radius (ft.)	80' Jib, 10° Offset: Boom Angle (deg.)	80' Jib, 10° Offset: Rated Load (lbs.)	80' Jib, 30° Offset: Boom Angle (deg.)	80' Jib, 30° Offset: Rated Load (lbs.)	100' Jib, 10° Offset: Boom Angle (deg.)	100' Jib, 10° Offset: Rated Load (lbs.)	100' Jib, 30° Offset: Boom Angle (deg.)	100' Jib, 30° Offset: Rated Load (lbs.)
55	79.7	21,900 *						
60	78.4	21,600 *			79.4	13,100 *		
65	77.0	21,300 *			78.2	12,900 *		
70	75.7	21,000 *			76.9	12,700 *		
75	74.3	20,800 *			75.7	12,500 *		
80	72.9	20,500 *	79.4	16,500 *	74.4	12,300 *		
85	71.5	20,100 *	78.0	16,200 *	73.2	12,000 *		
90	70.1	19,500 *	76.5	15,900 *	71.9	11,600 *	79.5	9,000 *
95	68.7	19,000 *	75.1	15,600 *	70.6	11,300 *	78.2	8,800 *
100	67.3	18,600 *	73.6	15,400 *	69.4	10,900 *	76.8	8,600 *
105	65.8	18,100 *	72.1	15,100 *	68.1	10,600 *	75.5	8,400 *
110	64.4	17,700 *	70.6	14,900 *	66.7	10,300 *	74.1	8,200 *
115	62.9	17,300 *	69.1	14,700 *	65.4	10,000 *	72.8	8,100 *
120	61.4	16,900 *	67.5	14,300 *	64.1	9,700 *	71.4	7,900 *
125	59.8	16,600 *	65.9	13,900 *	62.7	9,500 *	70.0	7,800 *
130	58.3	16,200 *	64.3	13,500 *	61.3	9,200 *	68.5	7,600 *
135	56.7	15,900 *	62.6	13,200 *	59.9	9,000 *	67.1	7,500 *
140	55.0	15,600 *	60.9	12,800 *	58.5	8,800 *	65.6	7,400 *
145	53.4	15,300 *	59.2	12,500 *	57.0	8,600 *	64.1	7,200 *
150	51.7	15,000 *	57.4	12,300 *	55.5	8,400 *	62.6	7,100 *
155	49.9	14,800 *	55.6	12,000 *	54.0	8,200 *	61.0	7,000 *
160	48.1	14,300	53.7	11,700 *	52.5	8,000 *	59.4	6,900 *
165	46.3	13,600	51.7	11,500 *	50.9	7,900 *	57.8	6,900 *
170	44.3	13,000	49.7	11,300 *	49.3	7,700 *	56.1	6,800 *
175	42.3	12,300	47.6	11,100 *	47.6	7,600 *	54.3	6,700 *
180	40.2	11,800	45.3	10,900 *	45.9	7,400 *	52.5	6,600 *
185	38.1	11,000 *	43.0	10,800 *	44.2	7,300 *	50.7	6,500 *
190	35.7	10,200 *	40.5	10,600 *	42.3	7,100 *	48.7	6,500 *
195	33.3	9,300 *			40.4	7,000 *	46.7	6,400 *
200	30.6	8,500 *			38.4	6,900 *	44.6	6,400 *
205					36.4	6,800 *	42.3	6,400 *
210					34.1	6,700 *		
215					31.8	6,600 *		

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CK1600-II Jib Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

150 ft Boom

Load Radius (ft.)	40' Jib, 10° Offset: Boom Angle (deg.)	40' Jib, 10° Offset: Rated Load (lbs.)	40' Jib, 30° Offset: Boom Angle (deg.)	40' Jib, 30° Offset: Rated Load (lbs.)	60' Jib, 10° Offset: Boom Angle (deg.)	60' Jib, 10° Offset: Rated Load (lbs.)	60' Jib, 30° Offset: Boom Angle (deg.)	60' Jib, 30° Offset: Rated Load (lbs.)
44	79.8	59,000 *						
46	79.1	59,000 *						
48	78.5	59,000 *						
50	77.9	59,000 *			79.8	42,300 *		
55	76.4	58,900 *			78.4	41,900 *		
60	74.8	55,700	78.5	38,900 *	77.0	41,500 *		
65	73.2	49,900	76.9	37,400 *	75.6	41,000 *		
70	71.6	45,000	75.3	36,000 *	74.2	40,300 *	79.3	27,300 *
75	70.0	40,900	73.6	34,700 *	72.8	39,600 *	77.8	26,200 *
80	68.4	37,400	72.0	33,600 *	71.3	38,000	76.3	25,200 *
85	66.8	34,300	70.3	32,500 *	69.8	34,900	74.8	24,300 *
90	65.1	31,700	68.6	31,500 *	68.4	32,200	73.3	23,500 *
95	63.4	29,300	66.9	30,200	66.9	29,800	71.7	22,700 *
100	61.7	27,200	65.1	28,000	65.4	27,700	70.2	22,000 *
105	59.9	25,300	63.3	26,100	63.8	25,800	68.6	21,300 *
110	58.2	23,600	61.5	24,300	62.3	24,100	67.0	20,700 *
115	56.3	22,100	59.6	22,700	60.7	22,600	65.4	20,100 *
120	54.5	20,700	57.7	21,300	59.1	21,200	63.7	19,600 *
125	52.6	19,400	55.7	20,000	57.4	19,900	62.0	19,100 *
130	50.6	18,300	53.7	18,800	55.8	18,700	60.3	18,600 *
135	48.6	17,200	51.6	17,600	54.0	17,600	58.5	18,200 *
140	46.5	16,200	49.4	16,600	52.3	16,600	56.7	17,500
145	44.3	15,300	47.2	15,600	50.5	15,700	54.8	16,600
150	42.0	14,500	44.8	14,800	48.6	14,900	52.9	15,600
155	39.7	13,500 *	42.3	13,900	46.7	14,100	50.9	14,800
160	37.2	12,400 *			44.8	13,400	48.8	14,000
165	34.5	11,300 *			42.7	12,600	46.7	13,300
170	31.6	10,200 *			40.6	11,800 *	44.4	12,600
175					38.3	10,900 *	42.0	11,900
180					35.9	10,000 *		
185					33.4	9,100 *		
190					30.7	8,200 *		

150 ft Boom

Load Radius (ft.)	80' Jib, 10° Offset: Boom Angle (deg.)	80' Jib, 10° Offset: Rated Load (lbs.)	80' Jib, 30° Offset: Boom Angle (deg.)	80' Jib, 30° Offset: Rated Load (lbs.)	100' Jib, 10° Offset: Boom Angle (deg.)	100' Jib, 10° Offset: Rated Load (lbs.)	100' Jib, 30° Offset: Boom Angle (deg.)	100' Jib, 30° Offset: Rated Load (lbs.)
60	78.9	21,700 *			79.8	13,200 *		
65	77.6	21,400 *			78.7	13,000 *		
70	76.3	21,100 *			77.5	12,800 *		
75	75.0	20,900 *			76.3	12,600 *		
80	73.7	20,600 *	79.9	16,600 *	75.1	12,400 *		
85	72.4	20,400 *	78.5	16,300 *	73.9	12,200 *		
90	71.0	19,900 *	77.2	16,000 *	72.7	11,800 *	79.9	9,000 *
95	69.7	19,400 *	75.8	15,800 *	71.5	11,500 *	78.7	8,800 *
100	68.3	18,900 *	74.4	15,500 *	70.2	11,100 *	77.4	8,700 *
105	67.0	18,400 *	73.0	15,300 *	69.0	10,800 *	76.1	8,500 *
110	65.6	18,000 *	71.6	15,000 *	67.7	10,500 *	74.9	8,300 *
115	64.2	17,600 *	70.1	14,800 *	66.5	10,200 *	73.6	8,200 *
120	62.7	17,300 *	68.6	14,600 *	65.2	9,900 *	72.2	8,000 *
125	61.3	16,900 *	67.1	14,200 *	63.9	9,700 *	70.9	7,800 *
130	59.8	16,600 *	65.6	13,800 *	62.6	9,500 *	69.5	7,700 *
135	58.3	16,200 *	64.1	13,500 *	61.3	9,200 *	68.2	7,600 *
140	56.8	15,900 *	62.5	13,100 *	59.9	9,000 *	66.8	7,400 *
145	55.3	15,600 *	60.9	12,800 *	58.5	8,800 *	65.4	7,300 *
150	53.7	15,300 *	59.2	12,500 *	57.2	8,600 *	63.9	7,200 *
155	52.1	14,600	57.6	12,300 *	55.7	8,400 *	62.5	7,100 *
160	50.4	13,900	55.8	12,000 *	54.3	8,200 *	61.0	7,000 *
165	48.7	13,200	54.0	11,800 *	52.8	8,000 *	59.4	6,900 *
170	47.0	12,500	52.2	11,500 *	51.3	7,900 *	57.9	6,800 *
175	45.1	11,900	50.3	11,300 *	49.8	7,700 *	56.3	6,700 *
180	43.3	11,300	48.3	11,100 *	48.2	7,600 *	54.6	6,700 *
185	41.3	10,800 *	46.2	11,000 *	46.6	7,400 *	52.9	6,600 *
190	39.3	10,000 *	44.0	10,700	44.9	7,300 *	51.1	6,500 *
195	37.1	9,200 *	41.7	10,100 *	43.2	7,200 *	49.3	6,500 *
200	34.9	8,400 *			41.4	7,100 *	47.4	6,400 *
205	32.4	7,700 *			39.5	7,000 *	45.4	6,400 *
210					37.6	6,900 *	43.4	6,400 *
215					35.6	6,800 *	41.1	6,300 *
220					33.4	6,700 *		
225					31.1	6,000 *		

160 ft Boom

Load Radius (ft.)	40' Jib, 10° Offset: Boom Angle (deg.)	40' Jib, 10° Offset: Rated Load (lbs.)	40' Jib, 30° Offset: Boom Angle (deg.)	40' Jib, 30° Offset: Rated Load (lbs.)	60' Jib, 10° Offset: Boom Angle (deg.)	60' Jib, 10° Offset: Rated Load (lbs.)	60' Jib, 30° Offset: Boom Angle (deg.)	60' Jib, 30° Offset: Rated Load (lbs.)
46	79.7	59,000 *						
48	79.1	59,000 *						
50	78.5	59,000 *						
55	77.1	59,000 *			79.0	42,000 *		
60	75.6	55,400	79.1	39,500 *	77.6	41,600 *		
65	74.1	49,600	77.6	38,000 *	76.3	41,200 *		
70	72.6	44,700	76.0	36,600 *	74.9	40,600 *	79.8	27,700 *
75	71.1	40,600	74.5	35,400 *	73.6	39,900 *	78.4	26,600 *
80	69.5	37,100	72.9	34,200 *	72.2	37,700	77.0	25,600 *
85	68.0	34,100	71.4	33,100 *	70.8	34,600	75.5	24,800 *
90	66.4	31,400	69.8	32,100 *	69.4	31,900	74.1	23,900 *
95	64.8	29,000	68.1	30,000	68.0	29,500	72.7	23,100 *
100	63.2	26,900	66.5	27,800	66.6	27,400	71.2	22,400 *
105	61.6	25,000	64.8	25,800	65.1	25,500	69.7	21,800 *
110	59.9	23,300	63.1	24,000	63.7	23,800	68.2	21,100 *
115	58.3	21,800	61.4	22,500	62.2	22,300	66.7	20,500 *
120	56.5	20,400	59.6	21,000	60.7	20,900	65.1	20,000 *
125	54.8	19,100	57.8	19,700	59.1	19,600	63.5	19,500 *
130	53.0	17,900	56.0	18,500	57.6	18,400	61.9	19,000 *
135	51.1	16,900	54.1	17,400	56.0	17,300	60.3	18,400
140	49.2	15,900	52.1	16,300	54.3	16,300	58.6	17,300
145	47.2	15,000	50.1	15,400	52.7	15,400	56.9	16,300
150	45.2	14,100	48.0	14,500	51.0	14,500	55.1	15,400
155	43.1	13,400	45.8	13,700	49.2	13,800	53.3	14,600
160	40.9	12,400 *	43.5	12,900	47.4	13,000	51.4	13,800
165	38.6	11,400 *	41.1	12,000 *	45.6	12,300	49.5	13,000
170	36.2	10,400 *			43.6	11,600 *	47.5	12,300
175	33.6	9,400 *			41.6	10,800 *	45.4	11,700
180	30.7	8,500 *			39.6	9,900 *	43.1	11,000
185					37.4	9,100 *	40.8	10,300 *
190					35.0	8,300 *		
195					32.6	7,500 *		

160 ft Boom

Load Radius (ft.)	80' Jib, 10° Offset: Boom Angle (deg.)	80' Jib, 10° Offset: Rated Load (lbs.)	80' Jib, 30° Offset: Boom Angle (deg.)	80' Jib, 30° Offset: Rated Load (lbs.)	100' Jib, 10° Offset: Boom Angle (deg.)	100' Jib, 10° Offset: Rated Load (lbs.)	100' Jib, 30° Offset: Boom Angle (deg.)	100' Jib, 30° Offset: Rated Load (lbs.)
60	79.3	21,800 *						
65	78.1	21,500 *			79.1	13,000 *		
70	76.9	21,200 *			78.0	12,800 *		
75	75.6	21,000 *			76.8	12,600 *		
80	74.4	20,700 *			75.7	12,400 *		
85	73.1	20,500 *	79.1	16,400 *	74.5	12,300 *		
90	71.9	20,200 *	77.8	16,200 *	73.4	12,000 *		
95	70.6	19,700 *	76.4	15,900 *	72.2	11,700 *	79.2	8,900 *
100	69.3	19,200 *	75.1	15,600 *	71.0	11,300 *	77.9	8,700 *
105	68.0	18,800 *	73.8	15,400 *	69.8	11,000 *	76.7	8,500 *
110	66.7	18,400 *	72.4	15,200 *	68.7	10,700 *	75.5	8,400 *
115	65.3	17,900 *	71.1	14,900 *	67.4	10,400 *	74.3	8,200 *
120	64.0	17,600 *	69.7	14,700 *	66.2	10,100 *	73.0	8,100 *
125	62.6	17,200 *	68.3	14,500 *	65.0	9,900 *	71.7	7,900 *
130	61.2	16,900 *	66.8	14,100 *	63.7	9,700 *	70.5	7,800 *
135	59.8	16,500 *	65.4	13,800 *	62.5	9,400 *	69.2	7,600 *
140	58.4	16,200 *	63.9	13,400 *	61.2	9,200 *	67.8	7,500 *
145	57.0	15,900 *	62.4	13,100 *	59.9	9,000 *	66.5	7,400 *
150	55.5	15,100	60.8	12,800 *	58.6	8,800 *	65.1	7,300 *
155	54.0	14,300	59.3	12,500 *	57.3	8,600 *	63.8	7,200 *
160	52.4	13,600	57.7	12,300 *	55.9	8,400 *	62.4	7,100 *
165	50.9	12,900	56.0	12,000 *	54.5	8,200 *	60.9	7,000 *
170	49.2	12,200	54.3	11,800 *	53.1	8,100 *	59.5	6,900 *
175	47.6	11,600	52.6	11,600 *	51.7	7,900 *	58.0	6,800 *
180	45.9	11,000	50.8	11,400 *	50.2	7,800 *	56.4	6,700 *
185	44.1	10,400	48.9	11,000	48.7	7,600 *	54.9	6,700 *
190	42.3	9,800 *	47.0	10,400	47.2	7,500 *	53.2	6,600 *
195	40.4	9,100 *	45.0	9,900	45.6	7,400 *	51.6	6,500 *
200	38.4	8,400 *	42.8	9,300 *	44.0	7,200 *	49.9	6,500 *
205	36.3	7,700 *	40.6	8,500 *	42.3	7,100 *	48.1	6,400 *
210	34.1	7,000 *			40.5	7,000 *	46.2	6,400 *
215	31.7	6,300 *			38.7	6,900 *	44.3	6,400 *
220					36.8	6,600 *	42.2	6,300 *
225					34.8	6,000 *	40.1	6,300 *
230					32.7	5,400 *		
235					30.4	4,800 *		

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CK1600-II Jib Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

170 ft Boom

Load Radius (ft.)	40' Jib, 10° Offset: Boom Angle (deg.)	40' Jib, 10° Offset: Rated Load (lbs.)	40' Jib, 30° Offset: Boom Angle (deg.)	40' Jib, 30° Offset: Rated Load (lbs.)	60' Jib, 10° Offset: Boom Angle (deg.)	60' Jib, 10° Offset: Rated Load (lbs.)	60' Jib, 30° Offset: Boom Angle (deg.)	60' Jib, 30° Offset: Rated Load (lbs.)
48	79.6	59,000 *						
50	79.1	59,000 *						
55	77.7	59,000 *			79.5	42,100 *		
60	76.3	55,100	79.6	40,000 *	78.2	41,700 *		
65	74.9	49,300	78.2	38,600 *	76.9	41,400 *		
70	73.4	44,400	76.7	37,200 *	75.6	40,900 *		
75	72.0	40,300	75.3	36,000 *	74.3	40,200 *	78.9	27,000 *
80	70.6	36,800	73.8	34,800 *	73.0	37,400	77.6	26,000 *
85	69.1	33,700	72.3	33,700 *	71.7	34,300	76.2	25,100 *
90	67.6	31,000	70.8	32,100	70.4	31,600	74.9	24,300 *
95	66.1	28,700	69.3	29,700	69.0	29,200	73.5	23,500 *
100	64.6	26,500	67.7	27,500	67.7	27,100	72.1	22,800 *
105	63.1	24,700	66.2	25,500	66.3	25,200	70.7	22,200 *
110	61.5	23,000	64.6	23,800	64.9	23,500	69.3	21,600 *
115	59.9	21,400	63.0	22,200	63.5	21,900	67.8	21,000 *
120	58.3	20,000	61.3	20,700	62.1	20,500	66.4	20,400 *
125	56.7	18,800	59.6	19,400	60.6	19,200	64.9	19,900 *
130	55.0	17,600	57.9	18,200	59.2	18,000	63.4	19,200
135	53.3	16,500	56.2	17,000	57.7	17,000	61.8	18,100
140	51.6	15,500	54.4	16,000	56.1	16,000	60.3	17,000
145	49.8	14,600	52.5	15,100	54.6	15,000	58.7	16,000
150	47.9	13,800	50.6	14,200	53.0	14,200	57.0	15,100
155	46.0	13,000	48.7	13,300	51.4	13,400	55.4	14,300
160	44.0	12,200 *	46.6	12,600	49.7	12,600	53.6	13,500
165	42.0	11,200 *	44.5	11,800 *	48.0	11,900	51.9	12,700
170	39.8	10,300 *	42.3	10,900 *	46.3	11,300 *	50.0	12,000
175	37.6	9,400 *			44.5	10,500 *	48.1	11,400
180	35.2	8,500 *			42.6	9,700 *	46.2	10,800
185	32.7	7,700 *			40.6	8,900 *	44.1	10,200
190	30.0	6,800 *			38.6	8,200 *	42.0	9,300 *
195					36.5	7,500 *		
200					34.2	6,800 *		
205					31.8	6,000 *		

170 ft Boom

Load Radius (ft.)	80' Jib, 10° Offset: Boom Angle (deg.)	80' Jib, 10° Offset: Rated Load (lbs.)	80' Jib, 30° Offset: Boom Angle (deg.)	80' Jib, 30° Offset: Rated Load (lbs.)	100' Jib, 10° Offset: Boom Angle (deg.)	100' Jib, 10° Offset: Rated Load (lbs.)	100' Jib, 30° Offset: Boom Angle (deg.)	100' Jib, 30° Offset: Rated Load (lbs.)
60	79.8	21,800 *						
65	78.6	21,600 *			79.5	13,100 *		
70	77.4	21,300 *			78.4	12,900 *		
75	76.2	21,100 *			77.3	12,700 *		
80	75.0	20,800 *			76.2	12,500 *		
85	73.8	20,600 *	79.5	16,500 *	75.1	12,300 *		
90	72.6	20,400 *	78.3	16,200 *	74.0	12,200 *		
95	71.4	20,000 *	77.0	16,000 *	72.9	11,900 *	79.6	8,900 *
100	70.2	19,500 *	75.8	15,700 *	71.8	11,500 *	78.4	8,800 *
105	68.9	19,100 *	74.5	15,500 *	70.6	11,200 *	77.3	8,600 *
110	67.7	18,600 *	73.2	15,300 *	69.5	10,900 *	76.1	8,400 *
115	66.4	18,200 *	71.9	15,100 *	68.3	10,600 *	74.9	8,300 *
120	65.1	17,900 *	70.6	14,900 *	67.2	10,300 *	73.7	8,100 *
125	63.8	17,500 *	69.3	14,700 *	66.0	10,100 *	72.5	8,000 *
130	62.5	17,200 *	67.9	14,400 *	64.8	9,800 *	71.3	7,800 *
135	61.2	16,800 *	66.5	14,000 *	63.6	9,600 *	70.0	7,700 *
140	59.9	16,500 *	65.1	13,700 *	62.4	9,400 *	68.8	7,600 *
145	58.5	15,700	63.7	13,400 *	61.2	9,200 *	67.5	7,500 *
150	57.1	14,800	62.3	13,100 *	59.9	9,000 *	66.2	7,400 *
155	55.7	14,000	60.8	12,800 *	58.7	8,800 *	64.9	7,300 *
160	54.2	13,200	59.3	12,500 *	57.4	8,600 *	63.6	7,200 *
165	52.8	12,500	57.8	12,300 *	56.1	8,400 *	62.3	7,100 *
170	51.3	11,900	56.2	12,000 *	54.7	8,200 *	60.9	7,000 *
175	49.7	11,200	54.6	11,800 *	53.4	8,100 *	59.5	6,900 *
180	48.1	10,700	53.0	11,300	52.0	7,900 *	58.1	6,800 *
185	46.5	10,100	51.3	10,700	50.6	7,800 *	56.6	6,700 *
190	44.8	9,500 *	49.5	10,200	49.2	7,600 *	55.1	6,700 *
195	43.1	8,800 *	47.7	9,600	47.7	7,500 *	53.6	6,600 *
200	41.3	8,200 *	45.8	9,100 *	46.2	7,400 *	52.0	6,500 *
205	39.5	7,500 *	43.8	8,400 *	44.7	7,300 *	50.3	6,500 *
210	37.5	6,900 *	41.7	7,700 *	43.1	7,200 *	48.7	6,400 *
215	35.5	6,200 *			41.4	6,900 *	46.9	6,400 *
220	33.3	5,600 *			39.7	6,400 *	45.1	6,400 *
225	31.0	4,900 *			37.9	5,800 *	43.2	6,300 *
230					36.0	5,300 *	41.2	6,300 *
235					34.1	4,700 *		
240					32.0	4,200 *		

180 ft Boom

Load Radius (ft.)	40' Jib, 10° Offset: Boom Angle (deg.)	40' Jib, 10° Offset: Rated Load (lbs.)	40' Jib, 30° Offset: Boom Angle (deg.)	40' Jib, 30° Offset: Rated Load (lbs.)	60' Jib, 10° Offset: Boom Angle (deg.)	60' Jib, 10° Offset: Rated Load (lbs.)	60' Jib, 30° Offset: Boom Angle (deg.)	60' Jib, 30° Offset: Rated Load (lbs.)
50	79.6	59,000 *						
55	78.3	59,000 *			79.9	42,300 *		
60	76.9	54,700			78.7	41,900 *		
65	75.6	48,800	78.8	39,100 *	77.5	41,500 *		
70	74.2	44,000	77.4	37,700 *	76.2	41,200 *		
75	72.9	39,900	76.0	36,500 *	75.0	40,500 *	79.4	27,400 *
80	71.5	36,300	74.6	35,400 *	73.7	37,000	78.1	26,400 *
85	70.1	33,300	73.2	34,300 *	72.5	33,900	76.8	25,500 *
90	68.7	30,600	71.8	31,800	71.2	31,200	75.5	24,700 *
95	67.3	28,200	70.3	29,300	69.9	28,800	74.2	23,900 *
100	65.9	26,100	68.9	27,100	68.6	26,600	72.9	23,200 *
105	64.4	24,200	67.4	25,100	67.3	24,800	71.6	22,600 *
110	62.9	22,500	65.9	23,400	66.0	23,000	70.2	22,000 *
115	61.5	21,000	64.4	21,800	64.7	21,500	68.9	21,400 *
120	59.9	19,600	62.8	20,300	63.3	20,100	67.5	20,800 *
125	58.4	18,300	61.3	19,000	62.0	18,800	66.1	20,100
130	56.8	17,100	59.7	17,800	60.6	17,600	64.7	18,900
135	55.3	16,000	58.0	16,600	59.2	16,500	63.2	17,700
140	53.6	15,100	56.4	15,600	57.8	15,500	61.7	16,700
145	52.0	14,100	54.7	14,600	56.3	14,600	60.2	15,700
150	50.3	13,300	52.9	13,800	54.8	13,700	58.7	14,800
155	48.5	12,500	51.1	12,900	53.3	12,900	57.2	13,900
160	46.7	11,600 *	49.3	12,100	51.8	12,200	55.6	13,100
165	44.9	10,800 *	47.3	11,300 *	50.2	11,500	53.9	12,300
170	42.9	9,900 *	45.3	10,500 *	48.6	10,700 *	52.3	11,700
175	40.9	9,100 *	43.3	9,600 *	46.9	9,900 *	50.5	11,000
180	38.9	8,200 *	41.1	8,800 *	45.2	9,200 *	48.7	10,400
185	36.7	7,400 *			43.4	8,500 *	46.9	9,700 *
190	34.4	6,700 *			41.6	7,800 *	45.0	9,000 *
195	31.9	5,900 *			39.7	7,100 *	43.0	8,200 *
200					37.7	6,400 *	40.9	7,500 *
205					35.6	5,800 *		
210					33.4	5,100 *		
215					31.1	4,500 *		

180 ft Boom

Load Radius (ft.)	80' Jib, 10° Offset: Boom Angle (deg.)	80' Jib, 10° Offset: Rated Load (lbs.)	80' Jib, 30° Offset: Boom Angle (deg.)	80' Jib, 30° Offset: Rated Load (lbs.)	100' Jib, 10° Offset: Boom Angle (deg.)	100' Jib, 10° Offset: Rated Load (lbs.)	100' Jib, 30° Offset: Boom Angle (deg.)	100' Jib, 30° Offset: Rated Load (lbs.)
65	79.1	21,600 *			79.9	13,200 *		
70	77.9	21,400 *			78.8	13,000 *		
75	76.8	21,200 *			77.8	12,800 *		
80	75.6	20,900 *			76.7	12,600 *		
85	74.5	20,700 *	80.0	16,600 *	75.7	12,400 *		
90	73.3	20,500 *	78.8	16,300 *	74.6	12,200 *		
95	72.2	20,300 *	77.6	16,100 *	73.5	12,000 *	80.0	9,000 *
100	71.0	19,800 *	76.4	15,800 *	72.4	11,700 *	78.9	8,800 *
105	69.8	19,400 *	75.2	15,600 *	71.4	11,400 *	77.8	8,700 *
110	68.6	18,900 *	73.9	15,400 *	70.3	11,100 *	76.6	8,500 *
115	67.4	18,500 *	72.7	15,200 *	69.2	10,800 *	75.5	8,300 *
120	66.2	18,200 *	71.4	15,000 *	68.0	10,500 *	74.4	8,200 *
125	64.9	17,800 *	70.2	14,800 *	66.9	10,300 *	73.2	8,000 *
130	63.7	17,500 *	68.9	14,600 *	65.8	10,000 *	72.0	7,900 *
135	62.4	17,100 *	67.6	14,300 *	64.6	9,800 *	70.9	7,800 *
140	61.1	16,200	66.3	13,900 *	63.5	9,600 *	69.7	7,700 *
145	59.9	15,200	64.9	13,600 *	62.3	9,300 *	68.5	7,600 *
150	58.5	14,400	63.6	13,300 *	61.1	9,100 *	67.2	7,400 *
155	57.2	13,600	62.2	13,000 *	59.9	8,900 *	66.0	7,300 *
160	55.8	12,800	60.8	12,800 *	58.7	8,800 *	64.7	7,200 *
165	54.5	12,100	59.3	12,500 *	57.5	8,600 *	63.5	7,100 *
170	53.1	11,400	57.9	12,300	56.2	8,400 *	62.2	7,000 *
175	51.6	10,800	56.4	11,600	54.9	8,300 *	60.8	7,000 *
180	50.1	10,200	54.9	11,000	53.6	8,100 *	59.5	6,900 *
185	48.6	9,700	53.3	10,400	52.3	8,000 *	58.1	6,800 *
190	47.1	9,000 *	51.7	9,800	51.0	7,800 *	56.7	6,700 *
195	45.5	8,300 *	50.0	9,300	49.6	7,700 *	55.3	6,700 *
200	43.9	7,700 *	48.3	8,600 *	48.2	7,500 *	53.8	6,600 *
205	42.2	7,100 *	46.5	8,000 *	46.8	7,400 *	52.3	6,500 *
210	40.4	6,500 *	44.6	7,400 *	45.3	7,000 *	50.8	6,500 *
215	38.6	5,900 *	42.7	6,700 *	43.8	6,500 *	49.2	6,500 *
220	36.7	5,300 *	40.6	6,100 *	42.2	5,900 *	47.5	6,400 *
225	34.7	4,700 *			40.6	5,400 *	45.8	6,400 *
230	32.6	4,100 *			38.9	4,900 *	44.0	5,900 *
235					37.2	4,400 *	42.1	5,400 *
240							40.2	4,800 *

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CK1600-II Jib Rated Loads

with 11 counterweights (116,840 lbs) and 2 carbody weights (22,050 lbs)

Refer to notes page 19

190 ft Boom

Load Radius (ft.)	40' Jib 10° Offset Boom Angle (deg.)	40' Jib 10° Offset Rated Load (lbs.)	40' Jib 30° Offset Boom Angle (deg.)	40' Jib 30° Offset Rated Load (lbs.)	60' Jib 10° Offset Boom Angle (deg.)	60' Jib 10° Offset Rated Load (lbs.)	60' Jib 30° Offset Boom Angle (deg.)	60' Jib 30° Offset Rated Load (lbs.)
50	80.0	53,100 *						
55	78.8	52,400 *						
60	77.5	51,600 *			79.1	42,000 *		
65	76.2	48,300 *	79.3	39,600 *	78.0	41,600 *		
70	74.9	43,600	78.0	38,200 *	76.8	41,300 *		
75	73.6	39,500	76.6	37,000 *	75.6	40,000 *	79.9	27,700 *
80	72.3	36,000	75.3	35,900 *	74.4	36,600	78.6	26,800 *
85	71.0	32,900	74.0	34,300	73.2	33,500	77.4	25,900 *
90	69.7	30,200	72.6	31,500	72.0	30,800	76.2	25,100 *
95	68.3	27,800	71.2	29,000	70.8	28,400	74.9	24,300 *
100	67.0	25,700	69.9	26,800	69.5	26,300	73.7	23,600 *
105	65.6	23,800	68.5	24,800	68.3	24,400	72.4	22,900 *
110	64.2	22,100	67.1	23,100	67.1	22,700	71.1	22,300 *
115	62.8	20,600	65.6	21,400	65.8	21,100	69.8	21,700 *
120	61.4	19,200	64.2	20,000	64.5	19,700	68.5	21,200 *
125	59.9	17,900	62.7	18,600	63.2	18,400	67.2	19,900
130	58.5	16,700	61.2	17,400	61.9	17,200	65.8	18,600
135	57.0	15,700	59.7	16,300	60.6	16,100	64.5	17,400
140	55.5	14,700	58.1	15,200	59.2	15,100	63.1	16,400
145	53.9	13,800	56.5	14,300	57.9	14,200	61.7	15,400
150	52.3	12,900	54.9	13,400	56.5	13,300	60.2	14,500
155	50.7	12,100 *	53.3	12,600	55.0	12,500	58.8	13,600
160	49.1	11,200 *	51.6	11,800	53.6	11,800	57.3	12,800
165	47.4	10,300 *	49.8	10,900 *	52.1	11,000 *	55.8	12,000
170	45.6	9,500 *	48.0	10,100 *	50.6	10,200 *	54.2	11,300
175	43.8	8,700 *	46.1	9,300 *	49.1	9,500 *	52.6	10,700
180	41.9	8,000 *	44.2	8,500 *	47.5	8,800 *	51.0	10,000
185	40.0	7,200 *	42.2	7,700 *	45.9	8,100 *	49.3	9,400
190	37.9	6,500 *	40.0	7,000 *	44.2	7,400 *	47.6	8,700 *
195	35.8	5,700 *			42.5	6,800 *	45.7	8,000 *
200	33.6	5,000 *			40.7	6,100 *	43.9	7,300 *
205	31.1	4,300 *			38.8	5,500 *	41.9	6,600 *
210					36.9	4,900 *		
215					34.9	4,300 *		

190 ft Boom

Load Radius (ft.)	80' Jib 10° Offset Boom Angle (deg.)	80' Jib 10° Offset Rated Load (lbs.)	80' Jib 30° Offset Boom Angle (deg.)	80' Jib 30° Offset Rated Load (lbs.)	100' Jib 10° Offset Boom Angle (deg.)	100' Jib 10° Offset Rated Load (lbs.)	100' Jib 30° Offset Boom Angle (deg.)	100' Jib 30° Offset Rated Load (lbs.)
65	79.5	21,700 *						
70	78.4	21,500 *			79.2	13,000 *		
75	77.3	21,200 *			78.2	12,800 *		
80	76.2	21,000 *			77.2	12,600 *		
85	75.1	20,800 *			76.2	12,500 *		
90	74.0	20,600 *	79.2	16,400 *	75.2	12,300 *		
95	72.8	20,400 *	78.1	16,200 *	74.1	12,100 *		
100	71.7	20,100 *	76.9	15,900 *	73.1	11,900 *	79.3	8,900 *
105	70.6	19,600 *	75.8	15,700 *	72.0	11,600 *	78.2	8,700 *
110	69.4	19,200 *	74.6	15,500 *	71.0	11,300 *	77.1	8,500 *
115	68.3	18,800 *	73.4	15,300 *	69.9	11,000 *	76.1	8,400 *
120	67.1	18,400 *	72.2	15,100 *	68.8	10,700 *	75.0	8,200 *
125	65.9	18,100 *	71.0	14,900 *	67.8	10,400 *	73.8	8,100 *
130	64.8	17,700 *	69.8	14,700 *	66.7	10,200 *	72.7	8,000 *
135	63.6	16,900	68.5	14,500 *	65.6	10,000 *	71.6	7,800 *
140	62.3	15,800	67.3	14,200 *	64.5	9,700 *	70.5	7,700 *
145	61.1	14,900	66.0	13,800 *	63.4	9,500 *	69.3	7,600 *
150	59.9	14,000	64.7	13,600 *	62.2	9,300 *	68.1	7,500 *
155	58.6	13,200	63.4	13,300 *	61.1	9,100 *	67.0	7,400 *
160	57.3	12,500	62.1	13,000 *	59.9	8,900 *	65.8	7,300 *
165	56.0	11,700	60.7	12,700	58.7	8,700 *	64.6	7,200 *
170	54.7	11,100	59.4	12,000	57.6	8,600 *	63.3	7,100 *
175	53.3	10,400	58.0	11,300	56.4	8,400 *	62.1	7,000 *
180	52.0	9,800	56.5	10,700	55.1	8,300 *	60.8	6,900 *
185	50.6	9,200 *	55.1	10,100	53.9	8,100 *	59.5	6,900 *
190	49.1	8,500 *	53.6	9,500	52.6	8,000 *	58.2	6,800 *
195	47.6	7,900 *	52.0	8,900	51.3	7,800 *	56.9	6,700 *
200	46.1	7,300 *	50.5	8,300 *	50.0	7,700 *	55.5	6,700 *
205	44.6	6,700 *	48.8	7,600 *	48.7	7,100 *	54.1	6,600 *
210	43.0	6,100 *	47.1	7,000 *	47.3	6,600 *	52.7	6,500 *
215	41.3	5,600 *	45.4	6,400 *	45.9	6,100 *	51.2	6,500 *
220	39.6	5,000 *	43.6	5,900 *	44.4	5,500 *	49.7	6,500 *
225	37.8	4,500 *	41.7	5,300 *	42.9	5,000 *	48.1	6,100 *
230					41.4	4,600 *	46.5	5,600 *
235					39.8	4,100 *	44.8	5,100 *
240							43.0	4,600 *
245							41.2	4,100 *

200 ft Boom

Load Radius (ft.)	40' Jib 10° Offset Boom Angle (deg.)	40' Jib 10° Offset Rated Load (lbs.)	40' Jib 30° Offset Boom Angle (deg.)	40' Jib 30° Offset Rated Load (lbs.)	60' Jib 10° Offset Boom Angle (deg.)	60' Jib 10° Offset Rated Load (lbs.)	60' Jib 30° Offset Boom Angle (deg.)	60' Jib 30° Offset Rated Load (lbs.)
55	79.2	46,200 *						
60	78.0	45,500 *			79.6	42,100 *		
65	76.8	44,700 *	79.7	40,000 *	78.4	41,700 *		
70	75.6	42,900 *	78.5	38,700 *	77.3	41,400 *		
75	74.3	39,100 *	77.2	37,500 *	76.2	39,200 *		
80	73.1	35,700	76.0	36,400 *	75.0	35,900 *	79.1	27,100 *
85	71.8	32,600	74.7	33,800 *	73.9	33,000 *	77.9	26,200 *
90	70.6	30,000	73.4	31,100 *	72.7	30,400 *	76.7	25,400 *
95	69.3	27,600	72.1	28,800	71.6	28,100 *	75.5	24,700 *
100	68.0	25,500	70.8	26,600	70.4	26,000	74.3	24,000 *
105	66.7	23,600	69.5	24,600	69.2	24,100	73.1	23,300 *
110	65.4	21,800	68.1	22,800	68.0	22,400	71.9	22,700 *
115	64.0	20,300	66.8	21,200	66.8	20,800	70.7	22,100 *
120	62.7	18,900	65.4	19,700	65.6	19,400	69.4	21,000
125	61.3	17,600	64.0	18,400	64.3	18,100	68.2	19,600
130	60.0	16,400	62.6	17,200	63.1	16,900	66.9	18,400
135	58.5	15,400	61.1	16,000	61.8	15,800	65.6	17,200
140	57.1	14,400	59.7	15,000	60.5	14,800	64.3	16,100
145	55.7	13,400	58.2	14,000	59.3	13,900	63.0	15,100
150	54.2	12,500 *	56.7	13,100	57.9	13,000 *	61.6	14,200
155	52.7	11,600 *	55.2	12,300 *	56.6	12,100 *	60.2	13,400
160	51.1	10,800 *	53.6	11,400 *	55.2	11,300 *	58.8	12,600
165	49.6	9,900 *	52.0	10,600 *	53.9	10,500 *	57.4	11,800
170	48.0	9,100 *	50.3	9,700 *	52.5	9,800 *	56.0	11,100
175	46.3	8,400 *	48.6	9,000 *	51.0	9,100 *	54.5	10,400
180	44.6	7,700 *	46.8	8,200 *	49.6	8,400 *	53.0	9,700
185	42.8	6,900 *	45.0	7,500 *	48.1	7,700 *	51.4	9,000 *
190	41.0	6,300 *	43.1	6,800 *	46.5	7,000 *	49.8	8,300 *
195	39.1	5,600 *	41.1	6,100 *	44.9	6,400 *	48.1	7,700 *
200	37.1	4,900 *			43.3	5,800 *	46.4	7,000 *
205	35.0	4,200 *			41.6	5,200 *	44.7	6,400 *
210					39.9	4,700 *	42.8	5,700 *
215					38.0	4,100 *	40.9	5,100 *

200 ft Boom

Load Radius (ft.)	80' Jib 10° Offset Boom Angle (deg.)	80' Jib 10° Offset Rated Load (lbs.)	80' Jib 30° Offset Boom Angle (deg.)	80' Jib 30° Offset Rated Load (lbs.)	100' Jib 10° Offset Boom Angle (deg.)	100' Jib 10° Offset Rated Load (lbs.)	100' Jib 30° Offset Boom Angle (deg.)	100' Jib 30° Offset Rated Load (lbs.)
65	79.8	21,800 *						
70	78.8	21,600 *			79.6	13,100 *		
75	77.7	21,300 *			78.6	12,900 *		
80	76.7	21,100 *			77.6	12,700 *		
85	75.6	20,900 *			76.7	12,500 *		
90	74.6	20,700 *	79.6	16,500 *	75.7	12,400 *		
95	73.5	20,500 *	78.5	16,200 *	74.7	12,200 *		
100	72.4	20,300 *	77.4	16,000 *	73.7	12,100 *	79.7	8,900 *
105	71.3	19,900 *	76.3	15,800 *	72.7	11,700 *	78.6	8,700 *
110	70.2	19,500 *	75.2	15,600 *	71.6	11,400 *	77.6	8,600 *
115	69.1	19,100 *	74.0	15,400 *	70.6	11,100 *	76.6	8,400 *
120	68.0	18,700 *	72.9	15,200 *	69.6	10,900 *	75.5	8,300 *
125	66.9	18,300 *	71.7	15,000 *	68.6	10,600 *	74.4	8,200 *
130	65.7	17,700	70.6	14,800 *	67.5	10,400 *	73.4	8,000 *
135	64.6	16,600	69.4	14,600 *	66.5	10,100 *	72.3	7,900 *
140	63.4	15,600	68.2	14,400 *	65.4	9,900 *	71.2	7,800 *
145	62.3	14,600	67.0	14,100 *	64.3	9,700 *	70.1	7,700 *
150	61.1	13,800	65.8	13,800 *	63.2	9,500 *	69.0	7,600 *
155	59.9	12,900	64.5	13,500 *	62.2	9,300 *	67.9	7,500 *
160	58.6	12,200	63.3	13,200 *	61.0	9,100 *	66.7	7,400 *
165	57.4	11,500	62.0	12,500	59.9	8,900 *	65.6	7,300 *
170	56.2	10,800	60.7	11,700	58.8	8,700 *	64.4	7,200 *
175	54.9	10,100	59.4	11,100	57.6	8,600 *	63.2	7,100 *
180	53.6	9,400 *	58.1	10,400	56.5	8,400 *	62.0	7,000 *
185	52.3	8,800 *	56.7	9,800	55.3	8,300 *	60.8	6,900 *
190	50.9	8,100 *	55.3	9,200	54.1	8,100 *	59.5	6,900 *
195	49.5	7,500 *	53.9	8,500 *	52.9	7,800 *	58.3	6,800 *
200	48.1	6,900 *	52.4	7,900 *	51.6	7,200 *	57.0	6,700 *
205	46.7	6,400 *	50.9	7,300 *	50.4	6,700 *	55.7	6,700 *
210	45.2	5,800 *	49.3	6,700 *	49.1	6,200 *	54.3	6,600 *
215	43.7	5,300 *	47.7	6,200 *	47.8	5,700 *	53.0	6,500 *
220	42.1	4,700 *	46.1	5,600 *	46.4	5,200 *	51.5	6,300 *
225	40.5	4,200 *	44.4	5,100 *	45.0	4,700 *	50.1	5,800 *
230			42.6	4,500 *	43.6	4,200 *	48.6	5,300 *
235			40.7	4,000 *			47.1	4,800 *
240							45.5	4,300 *

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CK1600-II

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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