

Hydraulic Crawler Crane

CK1600G-2

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

Max. Lifting Capacity - Luffing: 79,000 lbs
Max. Crane Boom Length : 157 ft
Max. Luffing Jib Length : 175 ft



CK1600G-2

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General Description



<i>Type</i>	Crawler mounted, Lattice boom, Hydraulic controlled
<i>Maximum lift capacity</i>	320,000 lbs (145,200 kg) @ 15' operating radius (50' boom)
<i>Basic boom length</i>	50' (15.2 m)
<i>Maximum boom length</i>	250' (76.2 m)
<i>Basic boom & jib length</i>	90' + 40' (27.4 m + 12.2 m)
<i>Maximum boom & jib length</i>	200' + 100' (61.0 m + 30.5 m)
<i>Working weight</i>	Approx. 308,725 lbs (140,000 kg)
<i>Ground bearing pressure</i>	Approx. 11.8 psi (81.7 kPa)
<i>Gradeability</i>	30%

Calculations to determine working weight, ground bearing pressure, and gradeability include the weight of the upper and lower works of the crane, counterweights, and carbody weights, 50' boom and hook block.

General Dimensions

<i>Height to top of gantry (lowered w/o crawlers)</i>	10'7" (3.215 m)
<i>Width of upper machine w/operator's cab</i>	9'10" (2.990 m)*
<i>Radius of rear end (counterweights)</i>	18' (5.5 m)
<i>Counterweight ground clearance</i>	4'5" (1.34 m)
<i>Center of rotation to boom foot pin</i>	4'7" (1.40 m)
<i>Height from ground to boom foot pin</i>	8'3" (2.525 m)
<i>Height over gantry (raised w/crawlers)</i>	25'10" (7.885 m)
<i>Overall length of crawlers</i>	25'11" (7.895 m)
<i>Overall width of crawlers</i>	21'9" (6.62 m)
<i>Center to center, idler to sprocket</i>	22'7" (6.89 m)
<i>Shoe width</i>	48" (1.22 m)
<i>Ground clearance of body</i>	1'7" (0.48 m)

Working Speed

<i>Hoist line speed (front and rear drums)</i>	393 ~ 10 ft/min (120 ~ 3 m/min)
<i>Lowering line speed (front and rear drums)</i>	393 ~ 10 ft/min (120 ~ 3 m/min)
<i>Boom hoist line speed (front and rear drums)</i>	157 ~ 6.6 ft/min (48 ~ 2 m/min)
<i>Boom lowering line speed (front and rear drums)</i>	157 ~ 6.6 ft/min (48 ~ 2 m/min)
<i>Swing speed (max.)</i>	2.1 rpm
<i>Travel speed (high/low)</i>	0.81/0.56 mph (1.3/0.9 km/h)

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

Upper Machinery

Power Plant:

Diesel engine - make and model

Hino P11C-VN
(Tier 4 Final)

No. of cylinders

6

Bore X stroke

122 mm x 150 mm

Cycles

4

Total displacement

642 cu.in. (10.520 ℓ)

Rated output SAE GROSS

363 HP / 1,850 rpm (271 kW / 1,850 min⁻¹)

Maximum torque

1,084 lbs-ft / 1,400 rpm (1,470 Nm / 1,400 min⁻¹)

Starter

24 Volts / 6.0 kW

Alternator

24 Volts / 80 Amp

Batteries

Two 12 volt, 136 AH/5 HR capacity series connected.

Radiator

Corrugated type core, thermostatically controlled, with cleanout screen.

Throttle

Twist grip type hand throttle, electrically controlled, in conjunction with floor mounted pedal.

Air cleaner

Dry type with replaceable paper element.

Fuel tank capacity

106 US gal. (400 liters)

Lube oil filters

Full flow and by-pass type with element cartridge type.

Fuel filter

Replaceable cartridge element.



* - 10'5" wide with Catwalks on cab side only.
11' wide with Catwalks on both sides.



Self Lifting Device - Standard Equipment

Counterweight and Carbody weight

Counterweight Base	1 x 22,050 (10,000 kg)
Counterweight (R)	5 x 9,925 (4,500 kg)
Counterweight (L)	5 x 9,925 (4,500 kg)
Total Counterweight	121,300 (55,000 kg)

Carbody weight	2 x 11,905 (5,405 kg)
Total Carbody weight	23,810 (10,810 kg)



Hydraulic system

Maximum pressure rating
4,626 psi (31.9MPa)

Cooling
Oil to air heat exchanger

Filtration
Full flow filters with replaceable paper elements

Hydraulic tank capacity
121.5 US gal. (460 liters)

Hydraulic pumps:

Load hoist and propel

2 piston pumps, max flow rate
69.5 US gal/min x 2 (263 ℓ/min x 2)

Boom hoist

1 piston pump, max flow rate
68.2 US gal/min (258 ℓ/min)

Swing

1 piston pump, max flow rate
47.6 US gal/min (180 ℓ/min)

Control system and auxiliary

2 Gear pumps, max flow rate
16 US gal/min + 11 US gal (61 ℓ/min + 40 ℓ/min)

Brake cooling system

2 gear pumps, max flow rate
16.1 US gal/min x 2 (61 ℓ/min x 2)

Gantry

This high folding type gantry is fitted with a sheave frame for boom reeving. Hydraulic lift is standard. It provides full up, full down positions with linkage.

Operators cab

Totally enclosed from weather, this full-vision cab has safety glass all around. The adjustable, high-backed seat with armrest is capable of adjustment with or without the control console. Auxiliary controls and instruments are on a side mounted console. A signal horn, windshield wipers, air conditioner/heater, storage compartment for manuals, and swing limiter are all standard features.

Controls

At the operator's right are console-mounted short levers for the front and rear drum and the boom hoist control. Fine inching control switch on LMI screen. Free fall activation switches are built in to the levers. Beside the seat on the right are two short levers for propel control, plus individual speed dial controls for front, rear, and boom drums. At the left is the console mounted swing lever, an optional 3rd drum control, switches for the front, rear, and boom drum pawls, and the engine start/stop key. A swing brake control switch and signal horn button are on the swing lever.

Swing:

Swing unit

Hydraulic motor driving spur gears through planetary reducers to output swing pinion for 360 degree rotation. There are three swing options: Free fast, free slow, and auto brake.

Swing brake

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

Swing circle

Single row ball bearing with an integral internally cut swing gear.

Swing lock

Manual, 4 position lock for transportation.



Line pull:

Max. line pull (single line) - 52,500 lbf (233 kN)

Rated line pull - 29,500 lbf (132 kN)

Lower Machinery

Crawlers:

Crawler assemblies are designed with a 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.

Crawler drive:

The independent two speed 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.

Crawler brakes:

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

Steering mechanism:

A hydraulic propel system provides both skid steering and counter rotating steering.

Crawler shoe:

60 shoes - 48" wide, each crawler.

Track rollers:

The track rollers are sealed for maintenance free operation.

Front drum:

Front and rear drums for load hoist powered by hydraulic variable plunger motors, driven through planetary reducers.

Negative brake

A spring-set, hydraulically released multiple disk brake is mounted on the hoist motor and operated through a counter-balance valve.

Drum lock External ratchet for locking drum

Drums:

Front drum -

666 mm P.C.D. x 672 mm Lg., grooved for 26 mm wire rope. Rope capacity is 902' (275 m) working length and 1,148' (350 m) storage length.

Rear drum -

666 mm P.C.D. x 672 mm Lg., grooved for 26 mm wire rope. Rope capacity is 837' (255 m) working length and 1,148' (350 m) storage length.

3rd drum (optional) -

614 mm P.C.D. x 617 mm Lg., grooved for 26 mm wire rope. Rope capacity is 787' (240 m) working length and 987' (300 m) storage length.



Crane Attachments

Boom:

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

<i>Maximum boom length</i>	250' (76.2 m)
<i>Basic boom length</i>	50' (15.2 m)
<i>Boom base section</i>	25' (7.6 m)
<i>Boom tip section (with Taper insert boom)</i>	25' (7.6 m)

Boom insert (optional):

Optional boom inserts are available to provide extension capabilities. They are robotic welded, laser aligned, lattice constructed with tubular, high-tension steel chords and pin connections.

<i>Boom insert</i>	10' (3.1 m), 20' (6.1 m), 40' (12.2 m)
--------------------	--

Jib (optional):

Jib inserts are available to provide extension capabilities. The optional jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections.

<i>Maximum jib length</i>	100' (30.5 m)
<i>Basic jib length</i>	40' (12.2 m)
<i>Jib base section</i>	15' (4.6 m)
<i>Jib tip section</i>	15' (4.6 m)
<i>Jib insert</i>	10' (3.1 m), 20' (6.1 m)

Jib is useable on booms of 90' (27.4 m) through 200' (61.0 m)

Standard Equipment

Lights:

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

Gauges and warning display

Gauges

- One (1) tachometer
- One (1) hour meter
- One (1) fuel gauge
- One (1) water temperature
- One (1) DEF gauge

Warning display

- Battery charge
- Engine oil pressure
- Air cleaner
- Engine oil filter
- Control main pressure
- Hydraulic oil temperature
- DPF condition indicator
- Exhaust temperature

Others

- Air conditioner/heater
- Drum turn indicator (front/rear)
- Foot pedal / throttle
- Electric fuel tank transfer pump
- Counterweight self-removal device
- KCross Telematics
- Self assembly sheaves in base boom with ATB
- Translifters

Safety Service

- Function lock lever
- Boom over hoist limit switch
- Signal horn
- Front/rear hoist drum lock
- Swing Limiter (Buzzer, lamps, or stops)
- Overload prevention device (LMI)
- Hook over hoist shut off (Anti-two-block)
- Boom angle indicator
- Travel alarm

Safety Service (cont)

- Boom hoist drum lock
- Swing locks, anti drift, and mechanical
- Boom backstops
- Boom catwalks w/fall protection
- Upper machinery catwalk, handrails and ladder

Tools and Accessories

A set of tools and manuals are furnished.

Optional Equipment

- Third drum
- Hook block
- Hook ball
- Auxiliary sheave
- Fixed jib
- Luffing jib
- Boom inserts
- Free fall winches



Auxiliary sheave (optional):

Auxiliary sheave is extendible on booms of 50' (15.2 m) through 240' (73.2 m)
Maximum line: 2 parts of 26 mm wire rope.

Boom hoist reeving:

Twelve (12) parts of 20.0 mm diameter high strength wire rope.

Boom backstops:

Telescopic type with spring bumper

G-Mode

The G-modes are a standard exclusive energy and fuel saving system, with up to 30% in fuel savings. The G-Mode eliminates needless operations and engine functions allowing for reduced fuel consumption by using three basic modes that are all operator selectable.

Auto Idling Stop Mode (AIS):

An Industry First

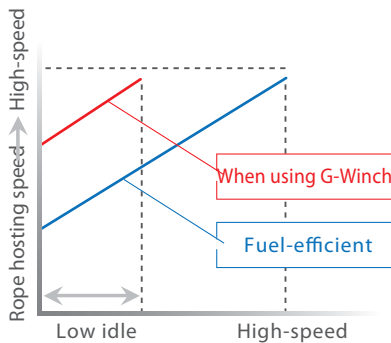
The AIS mode can conserve fuel by stopping the engine, with an operator prompt, after 10 seconds of idling time. Restarting the engine is simple by just twisting the throttle.



G-Winch Mode:

An Industry First

The G-winch mode can produce maximum winch line speed at a low engine RPM.



The high speed mode allows the line to be raised or lowered at maximum line speed without raising engine speed when lifting without a load.

G-Engine Mode:

An Industry First

The G-engine mode limits maximum engine speed to approx. 1,500 RPM and controls the pumps to make engine operation in the most efficient condition.



G-Winch



AIS



G-Engine



Exhaust cleaning DPR:

The DPR (diesel particulate active reduction system) burns PM (particulate matter) and includes:

- DPF: Diesel Particulate Filter
- SCR: Selective Catalytic Reduction
- DEF: Diesel Exhaust Fluid

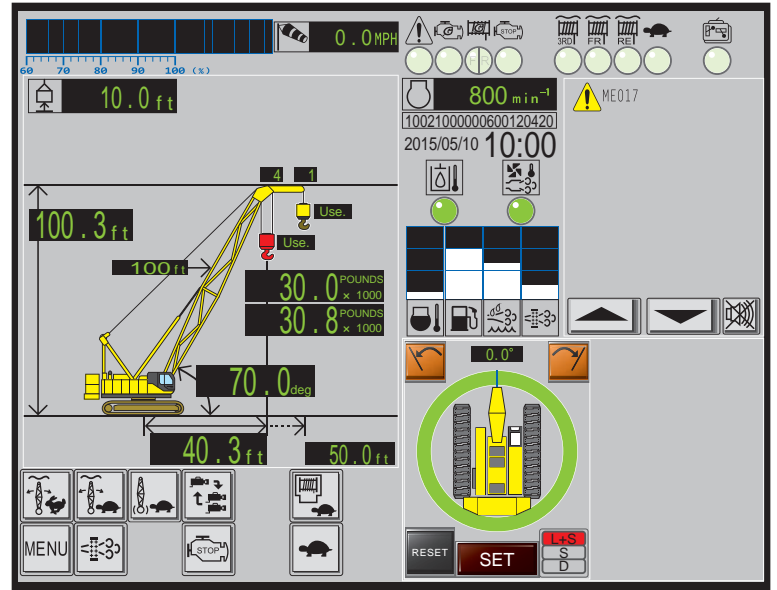
The DPR creates this new clean diesel system - although diesel engines consume less fuel and emit less CO₂ than gasoline engines, they also emit more harmful particulate matter and nitrogen oxide (NO_x). The “new clean energy system” engine utilizes a DPF, SCR and DEF to reduce particulate matter, which is also kept to a minimum using negative ions. This means that the exhaust gas from the diesel engine is cleaner, conforming with current EPA Tier 4 Final regulations.

This system requires the use of low sulfur diesel.

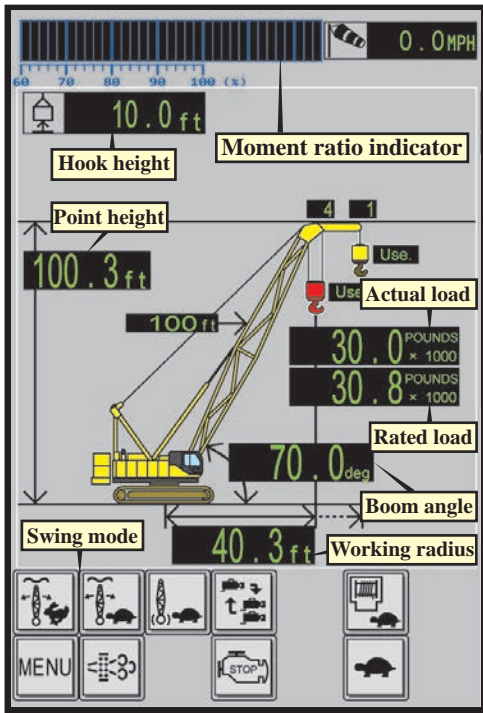
* Warning: High sulfur diesel will damage the engine.

Load Moment Indicator (LMI)

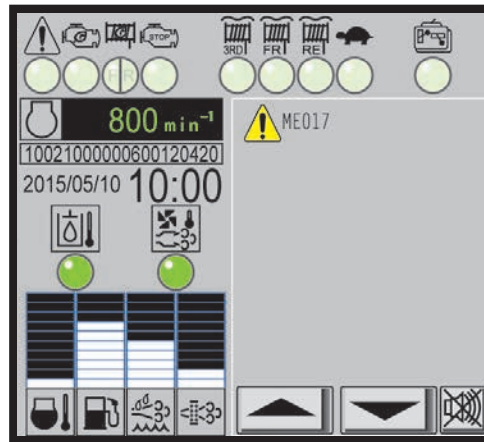
The Kobelco designed 12" touch panel screen with sunshade and screen protector is an industry first. This intuitive and easy to understand new touch screen monitor gives the operator a full display of essential data. Universal pictograms are used providing easy visual recognition, making this new technology easy to read and understand the information. This new monitor includes: Hook Height, Engine Speed, Display Lamp of standard functions, Gauges, Over-Swing Prevention Device, Maximum Load Radius, Switches, and Error Messages. Load charts include standard, jib, reduced counterweight, barge, and clamshell.



Moment Limiter (Left Side)



Gauges (Right Side)



Display Lamp	
G-Engine	Engine warning lamp
G-Winch	Remote control connection
AIS operation	Free fall (main/auxiliary)
Inching Mode	Free fall (3rd)

Error Message
Touch to display details in a pop-up window.

Gauges	
DEF gauge	Hydraulic oil temp lamp
Fuel gauge	Exhaust system cooling lamp
Diesel particulate filter gauge	
Coolant temperature	

** Figures for the above gauges are only shown when the bar is touched.*

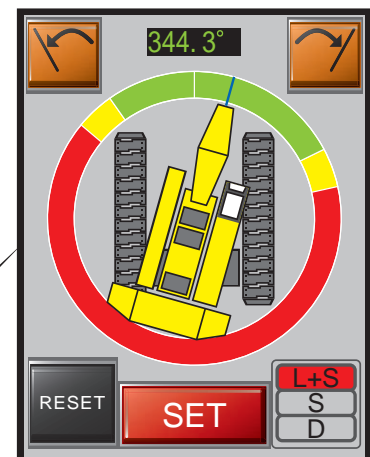
Main Menu



Adjustment Mode

Service Mode

Over-Swing Prevention
An over-swing preventative device is standard. It limits the swing of the crane. Configuration is simple and can be done from the touch panel.



Winch Performance Data

Note:

Line speed and line pull based on Hino P11C-VN at 1,850 rpm.

Line speed and line pull based on single line.

Max. line pull is based on referential performance, not wire rope strength.

Front & Rear Drum

Wire Rope Diameter = See spec in chart below

Rated Line Pull = 29,500 lbf (132 kN)

Maximum Line Pull = 52,500 lbf (233 kN)

Total Storage Capacity = 1,153 ft (351.3 m)

		Line speed (ft/min)					
		1	2	3	4	5	6
	0	394	420	446	472	498	
	5,000	394	420	446	472	498	
	10,000	394	420	446	472	498	
	15,000	391	390	390	390	390	
Line Pull	20,000	300	300	300	300	300	storage
(lbs)	25,000	240	240	240	240	240	only
	29,500	204	204	203	203	203	
	35,000	186	189	174	157	136	
	40,000	150	132	116	106	0	
	45,000	104	94	0			
Storage Capacity (ft)		165	176	187	198	208	219

Third Drum (for Load hoist)

Wire Rope Diameter = See spec in chart below

Rated Line Pull = 29,500 lbf (132 kN)

Maximum Line Pull = 50,000 lbf (222 kN)

Total Storage Capacity = 986 ft (300.4 m)

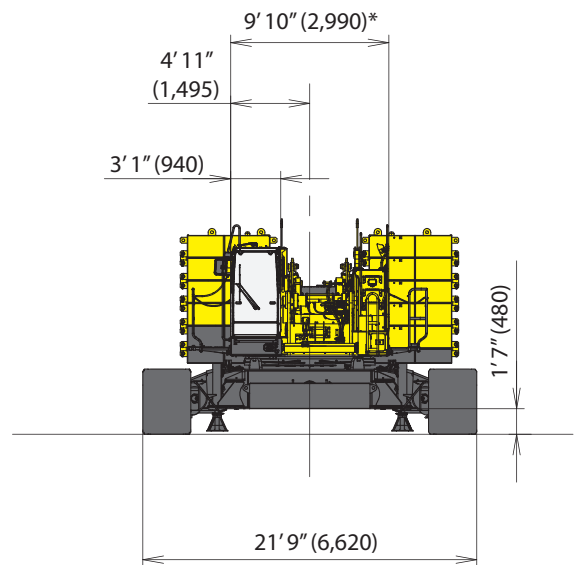
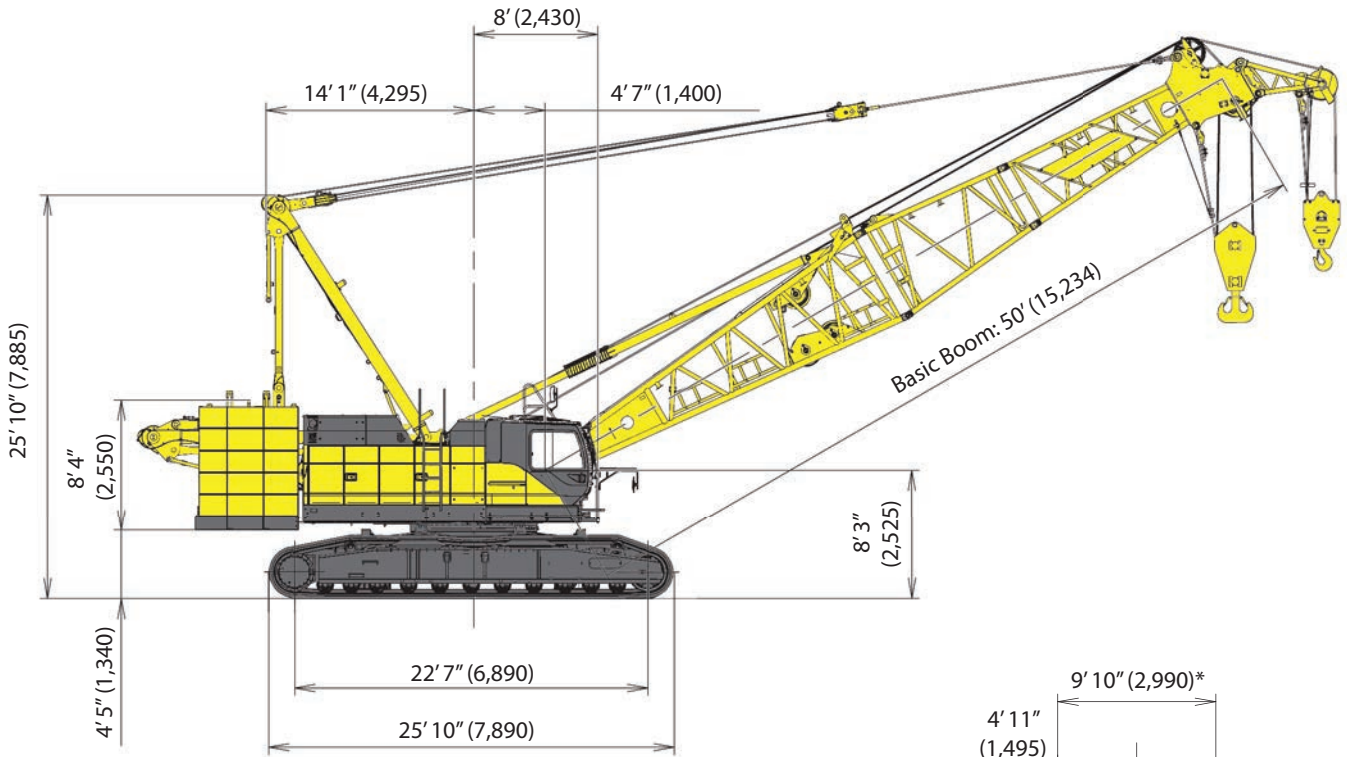
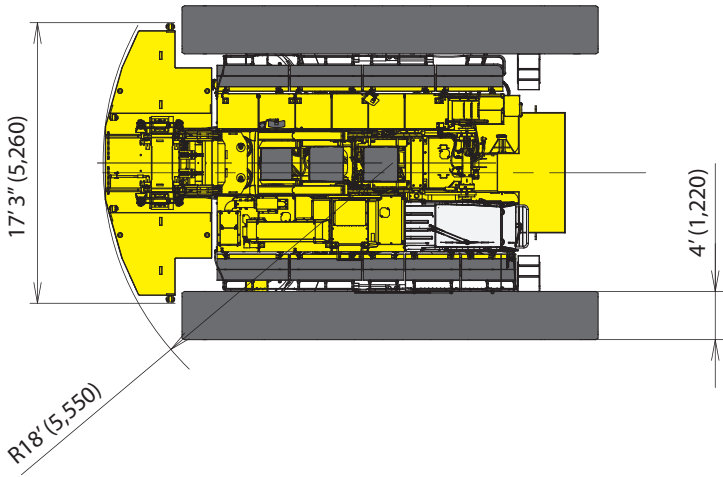
		Line speed (ft/min)					
		1	2	3	4	5	6
	0	394	394	394	394	394	
	5,000	370	394	394	394	394	
	10,000	249	249	249	249	249	
	15,000	166	166	166	166	166	
Line Pull	20,000	124	124	124	124	124	storage
(lbs)	25,000	99	99	99	99	99	only
	29,500	84	84	84	84	83	
	35,000	71	70	68	66	67	
	40,000	60	58	59	59	59	
	45,000	52	53	53			
Storage Capacity (ft)		139	149	159	169	179	189

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	1.049" to 1.070" (26.65 mm to 27.17 mm)	902ft (275 m)	3.5: 1	135,110 lbf (601 kN)
Rear drum	UNI rope (U3 x SeS48) Regular lay, Right hand lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	837ft (255 m)	3.5: 1	135,110 lbf (601 kN)
Boom Drum	6 x 31 P Warrington seal Right hand lay, Regular lay	0.807" to 0.823" (20.50 mm to 20.90 mm)	623ft (190 m)	3.5: 1	73,737 lbf (328 kN)
Third drum (Optional)	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	787ft (240 m)	3.5: 1	120,048 lbf (534 kN)
Rear drum (Luffing main hoist)	UNI rope (U3 x SeS48) Regular lay, Right hand lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	1,115 ft (340m)	3.5: 1	135,110 lbf (601 kN)
Luffing boom hoist	6 x 31 P Warrington seal Right hand lay, Regular lay	0.807" to 0.823" (20.50 mm to 20.90 mm)	623ft (190 m)	3.5: 1	73,737 lbf (328 kN)
Luffing jib hoist	6 x 31 P Warrington seal Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	558ft (170m)	3.5: 1	124,544 lbf (554 kN)

CK1600G-2 SPECIFICATIONS

General Dimensions



* - 10' 5" wide with Catwalks on cab side only.
11' wide with Catwalks on both sides.

CK1600G-2 SPECIFICATIONS

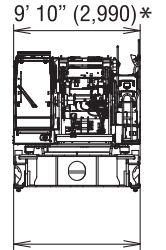
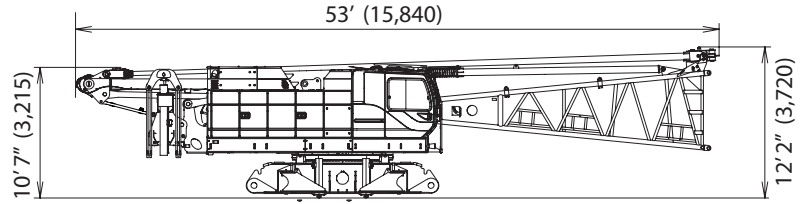
Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

Base Machine - 1

Weight: 84,815 lbs (38,470 kg)

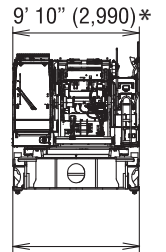
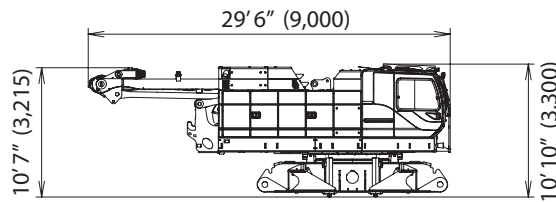
Boom base, gantry, crane backstop, self removal unit, and wire ropes (front, rear, and boom hoist)



Base Machine - 2

Weight: 70,715 lbs (32,075 kg)

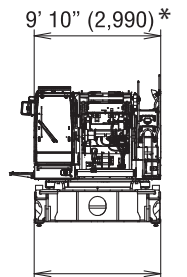
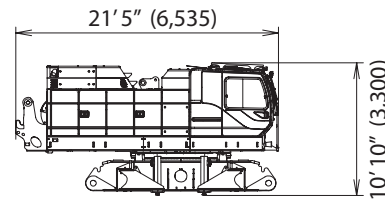
Gantry, wire ropes (front, rear, and boom hoist)



Base Machine - 3

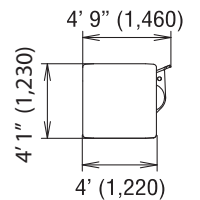
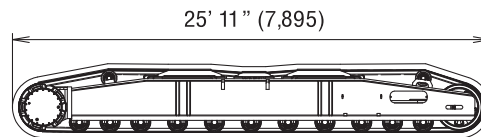
Weight: 64,480 lbs (29,250 kg)

Wire ropes (front, rear, and boom hoist)



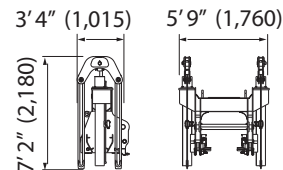
Crawler

Weight: 36,510 lbs (16,560 kg)



Counterweight Self-Removal Cylinder

Weight: 3,380 lbs (1,535 kg)



* - 10'5" wide with Catwalks on cab side only.
11' wide with Catwalks on both sides.

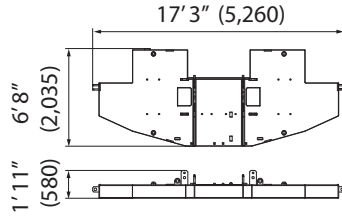
CK1600G-2 SPECIFICATIONS

Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

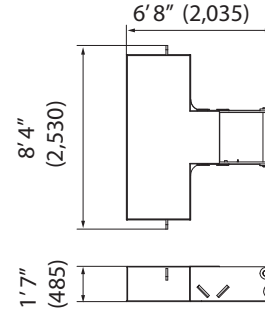
Counterweight Base

Weight: 22,050 lbs (10,000 kg)



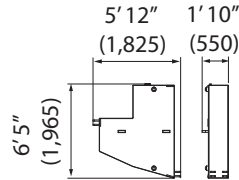
Carbody Weight

Weight: 11,905 lbs (5,400 kg)



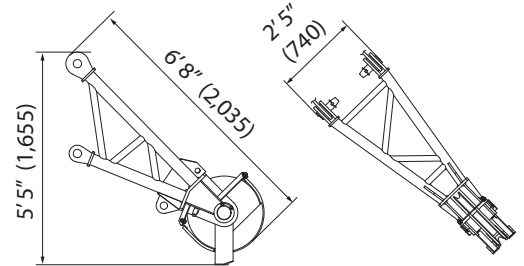
Counterweight

Weight: 9,925 lbs (4,500 kg)



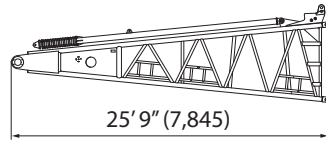
Auxiliary Sheave

Weight: 665 lbs (300 kg)



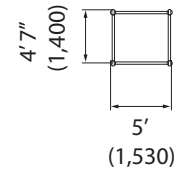
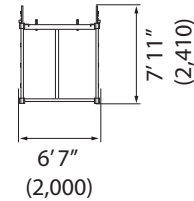
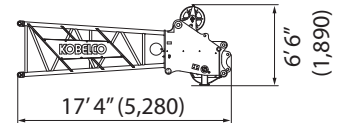
Boom Base (with backstop)

Weight: 9,400 lbs (4,265 kg)



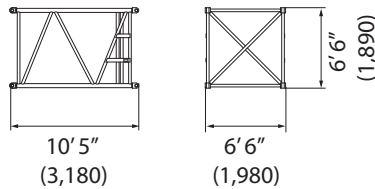
Boom Tip

Weight: 3,770 lbs (1,710 kg)



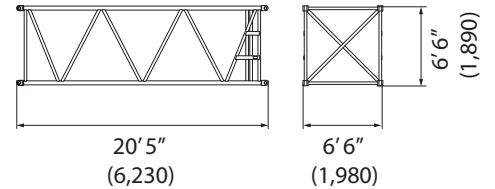
10 ft (3.0 m) Insert Boom

Weight: 1,115 lbs (505 kg)



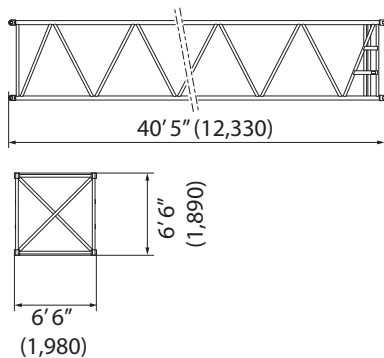
20 ft (6.1 m) Insert Boom

Weight: 1,810 lbs (820 kg)



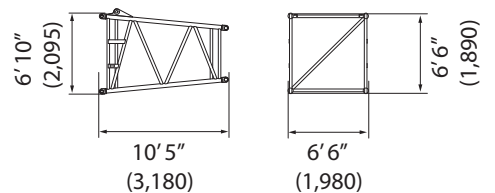
40 ft (12.2 m) Insert Boom

Weight: 3,190 lbs (1,445 kg)



Taper Insert Boom

Weight: 1,225 lbs (555 kg)



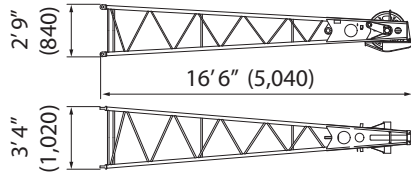
CK1600G-2 SPECIFICATIONS

Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

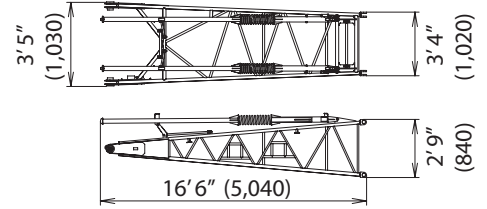
Jib Tip

Weight: 695 lbs (315 kg)



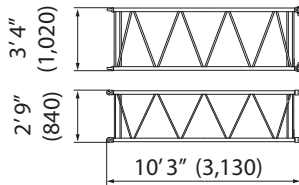
Jib Base

Weight: 465 lbs (210 kg)



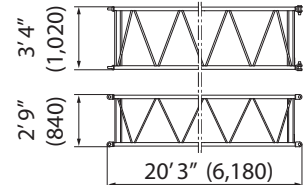
10 ft (3.0 m) Insert Jib

Weight: 245 lbs (110 kg)



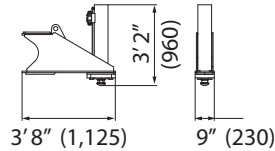
20 ft (6.1 m) Jib Insert

Weight: 420 lbs (190 kg)



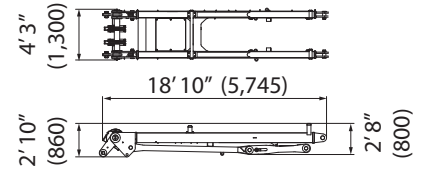
Translifter

Weight: 620 lbs (280 kg)



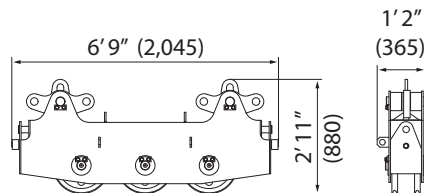
Gantry

Weight: 4,610 lbs (2,090 kg)



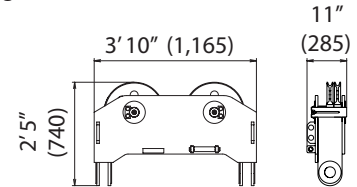
Upper Spreader (for crane)

Weight: 1,050 lbs (475 kg)



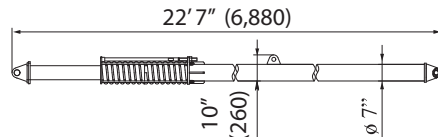
Lower Spreader (for crane)

Weight: 665 lbs (300 kg)



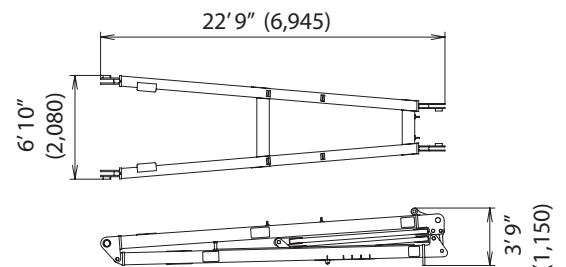
Boom Backstop

Weight: 1,150 lbs (520 kg)



Jib Strut

Weight: 4,435 lbs (2,010 kg)



Transportation Plan

Refer to pages 10-12

Shipping plan for 250 ft Boom and 100' Jib

Description of Item	Weight		Trailer Loads							
	lbs	(kg)	#1	#2	#3	#4	#5	#6	#7	#8
Base Machine with Boom Base*	84,815	(38,470)	1							
Crawler	36,510	(16,560)		1	1					
Counterweight Base	22,100	(10,000)				1				
Counterweight (L)	9,925	(4,500)					1	3	1	
Counterweight (R)	9,925	(4,500)							2	3
Carbody Weight	11,905	(5,405)					2			
10 ft Insert Boom and Guy Line	1,115	(640)		1	1					
20 ft Insert Boom and Guy Line	1,810	(1,005)		1						
40 ft Insert Boom and Guy Line	3,190	(1,715)					1	1	1	1
Taper Insert Boom	1,115	(505)				1				
Boom Tip and Guy Line	3,770	(1,805)				1				
Jib Base, Strut, and Guy Line	1,130	(1,040)			1					
10 ft Insert Jib and Guy Line	245	(120)		1						
20 ft Insert Jib and Guy Line	420	(252)					1	1	1	
Jib Tip	695	(315)			1					
Auxiliary Sheave	665	(275)							1	
75 Ton Block	3,000	(1,361)								1
13 Ton Ball	800	(365)								1
Approx. Total Shipping Weight		lbs (kg)	84,815 (38,470)	39,680 (18,325)	39,450 (18,555)	26,985 (12,310)	37,345 (17,277)	33,385 (15,467)	34,050 (15,742)	36,765 (16,941)

* Third drum is not included. Add 6,100 lbs if third drum is installed.

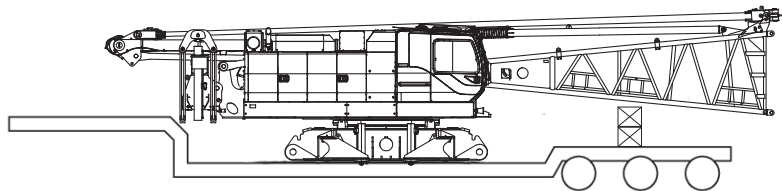
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck.

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

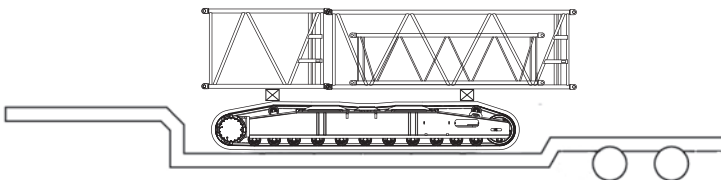
* Double drop trailer required.

* Add 3,185 lbs with Free Fall.

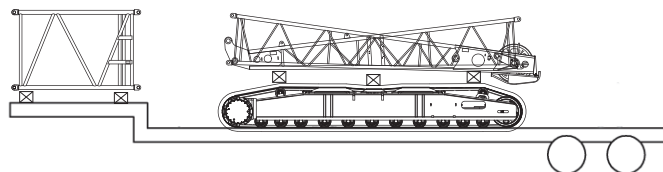
Trailer #1



Trailer #2 *



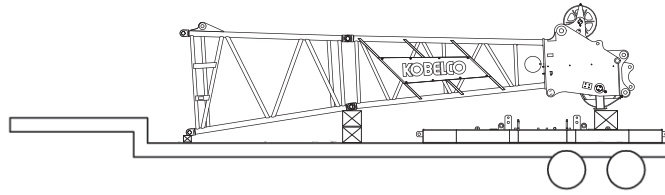
Trailer #3



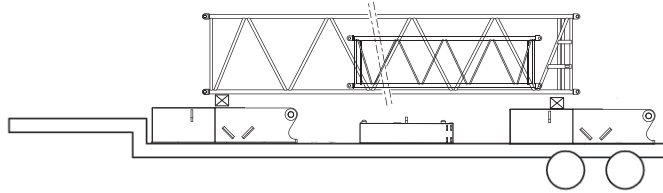
Transportation Plan

Refer to pages 10-12

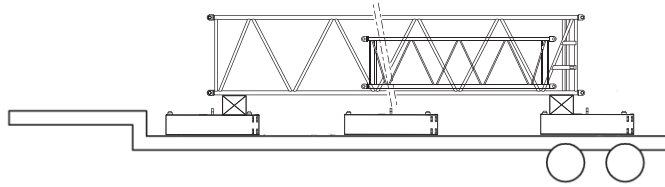
Trailer #4



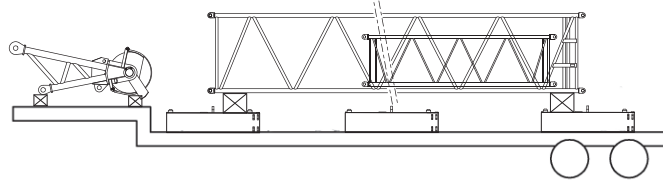
Trailer #5



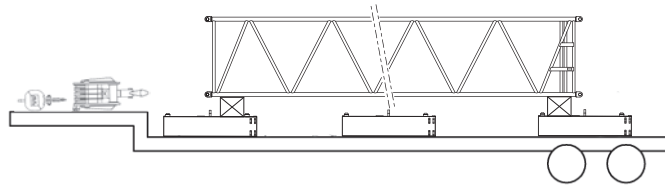
Trailer #6



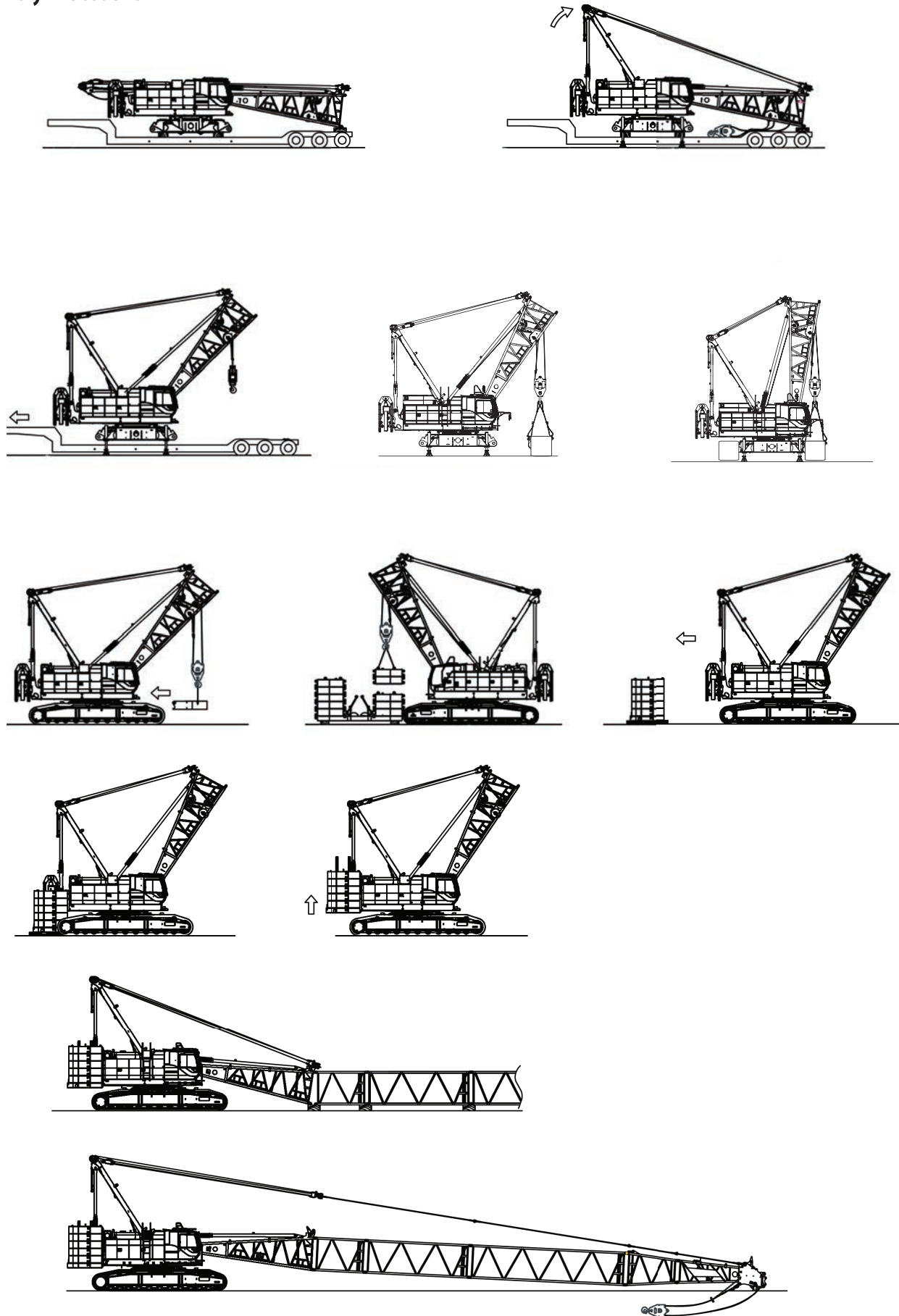
Trailer #7



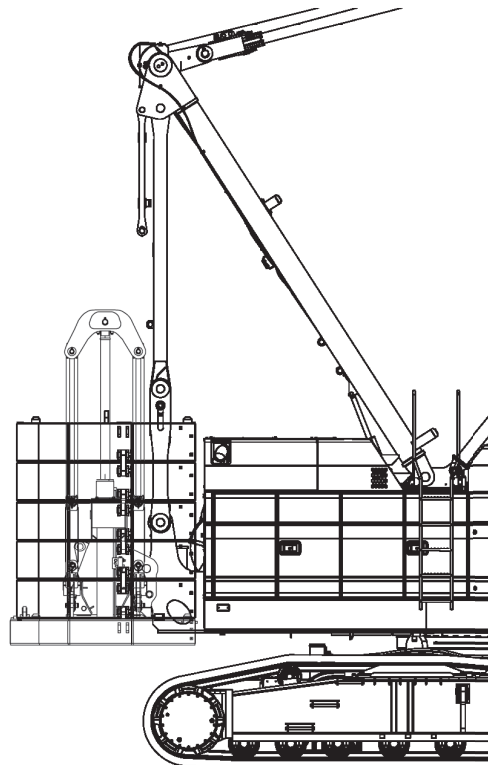
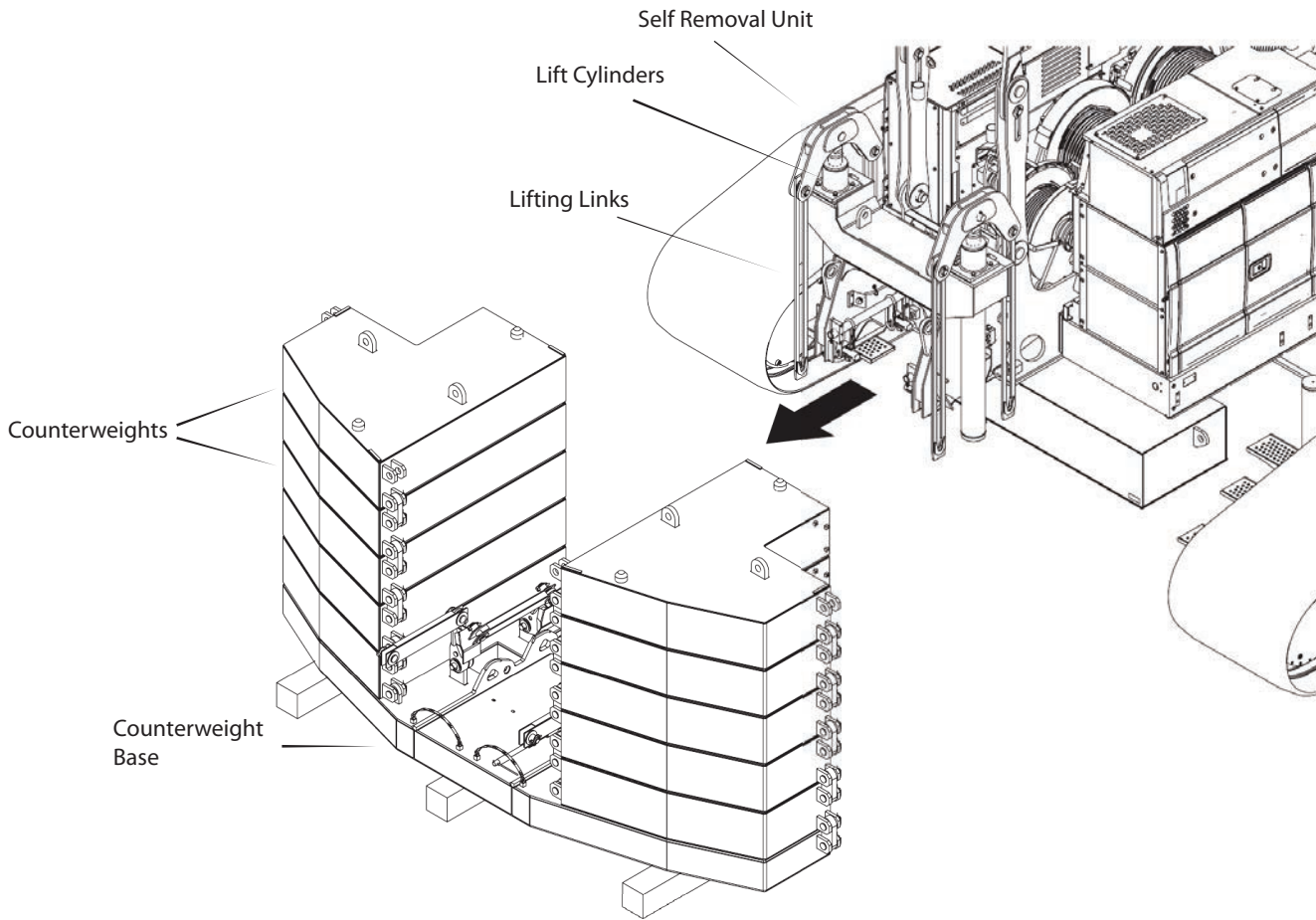
Trailer #8



Self-Assembly Procedure



Counterweight Self-Removal Device



Boom and Fixed Jib Arrangement

Boom Arrangement

Boom length ft (m)	Boom arrangement
50 (15.2)	
60 (18.3)	※
70 (21.3)	※
80 (24.3)	※
90 (27.4)	※
100 (30.5)	※
110 (33.5)	※
120 (36.6)	※
130 (39.6)	※
140 (42.7)	※
150 (45.7)	※
160 (48.8)	※
170 (51.8)	※

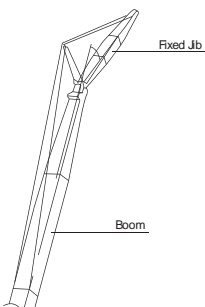
Boom length ft (m)	Boom arrangement
180 (54.9)	※
190 (57.9)	※
200 (61.0)	※
210 (64.0)	※
220 (67.1)	※
230 (70.1)	※
240 (73.2)	※
250 (76.2)	※

Symbol	Boom Length	Remarks
	25.0 ft (7.6 m)	Boom Base
	15.0 ft (4.5 m)	Boom Top
	10.0 ft (3.1 m)	Tapered Boom
	10.0 ft (3.1 m)	Insert Boom
	20.0 ft (6.1 m)	Insert Boom
	40.0 ft (12.2 m)	Insert Boom

↗ mark shows the guy line installing position when the fixed jib is used.

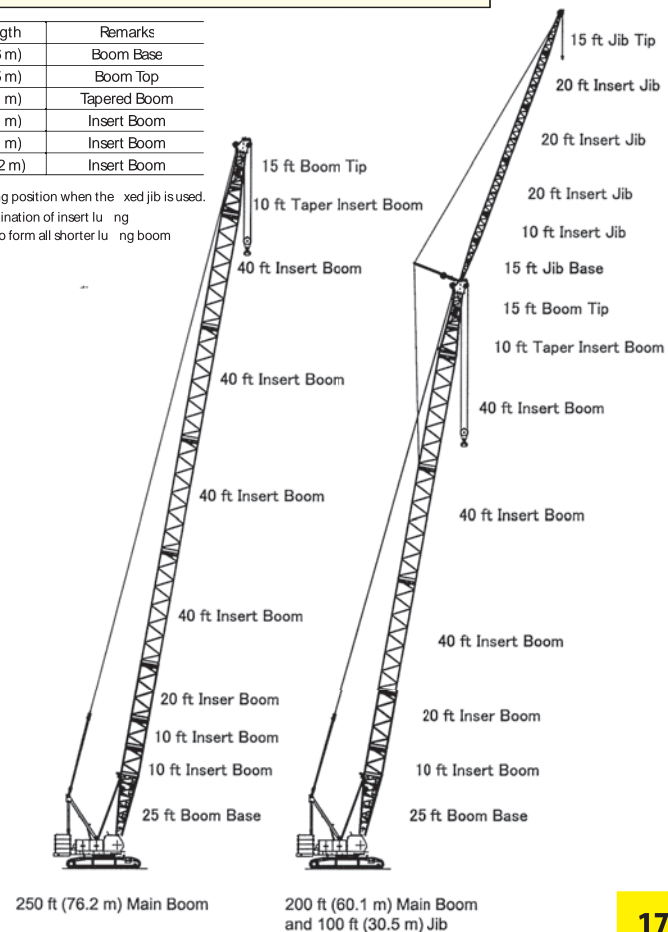
※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Fixed Jib Arrangement



Crane boom length	Jib length ft (m)	Jib arrangement
90 ft (27.4 m) } 200 ft (61.0 m)	40 (12.2)	
	60 (18.3)	
	80 (24.4)	
	100 (30.5)	

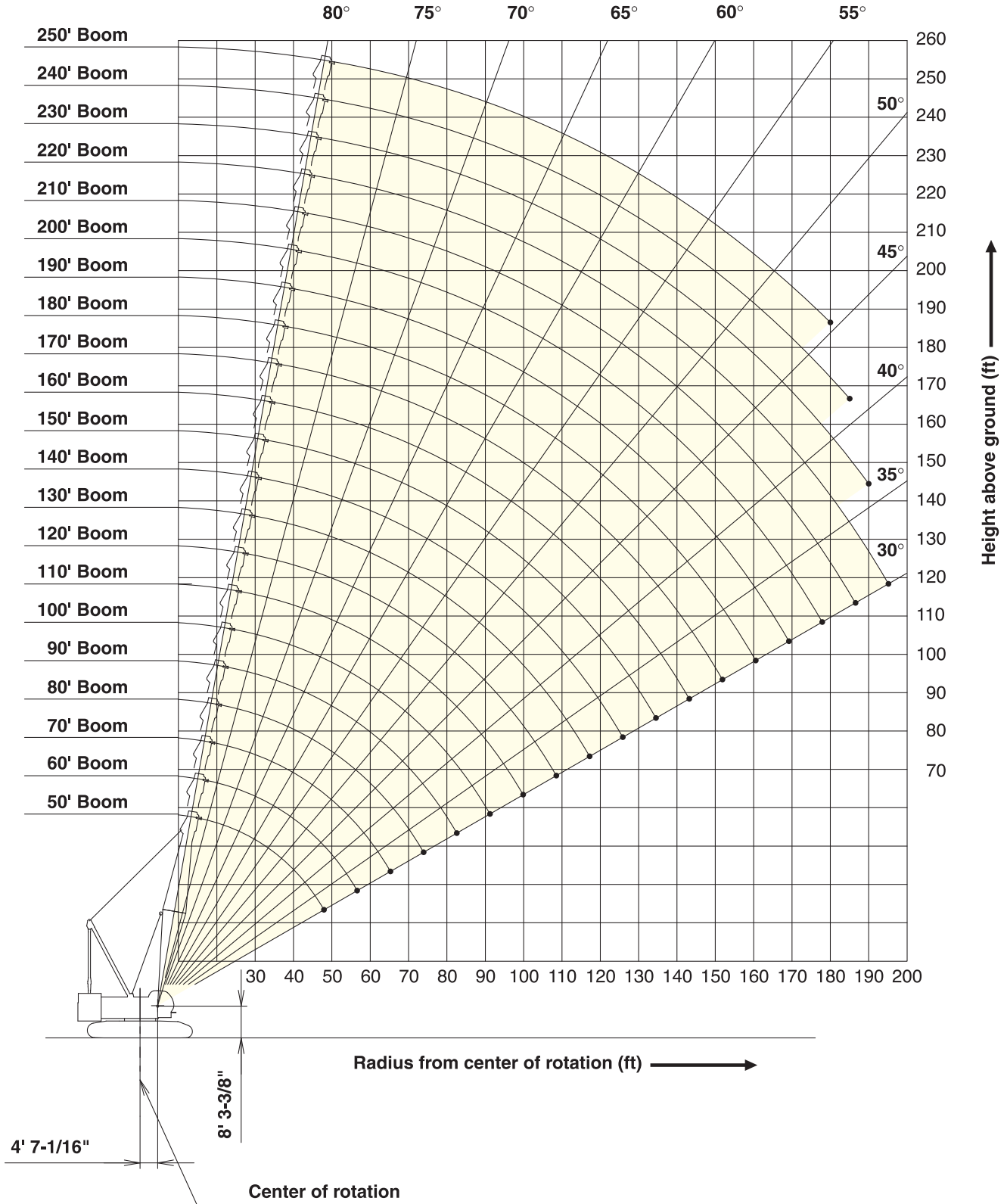
Symbol	Jib Length	Remarks
	15 ft (4.6 m)	Jib Base
	15 ft (4.6 m)	Jib Top
	10 ft (3.0 m)	Insert Jib
	20 ft (6.1 m)	Insert Jib



Working Ranges

Main Boom

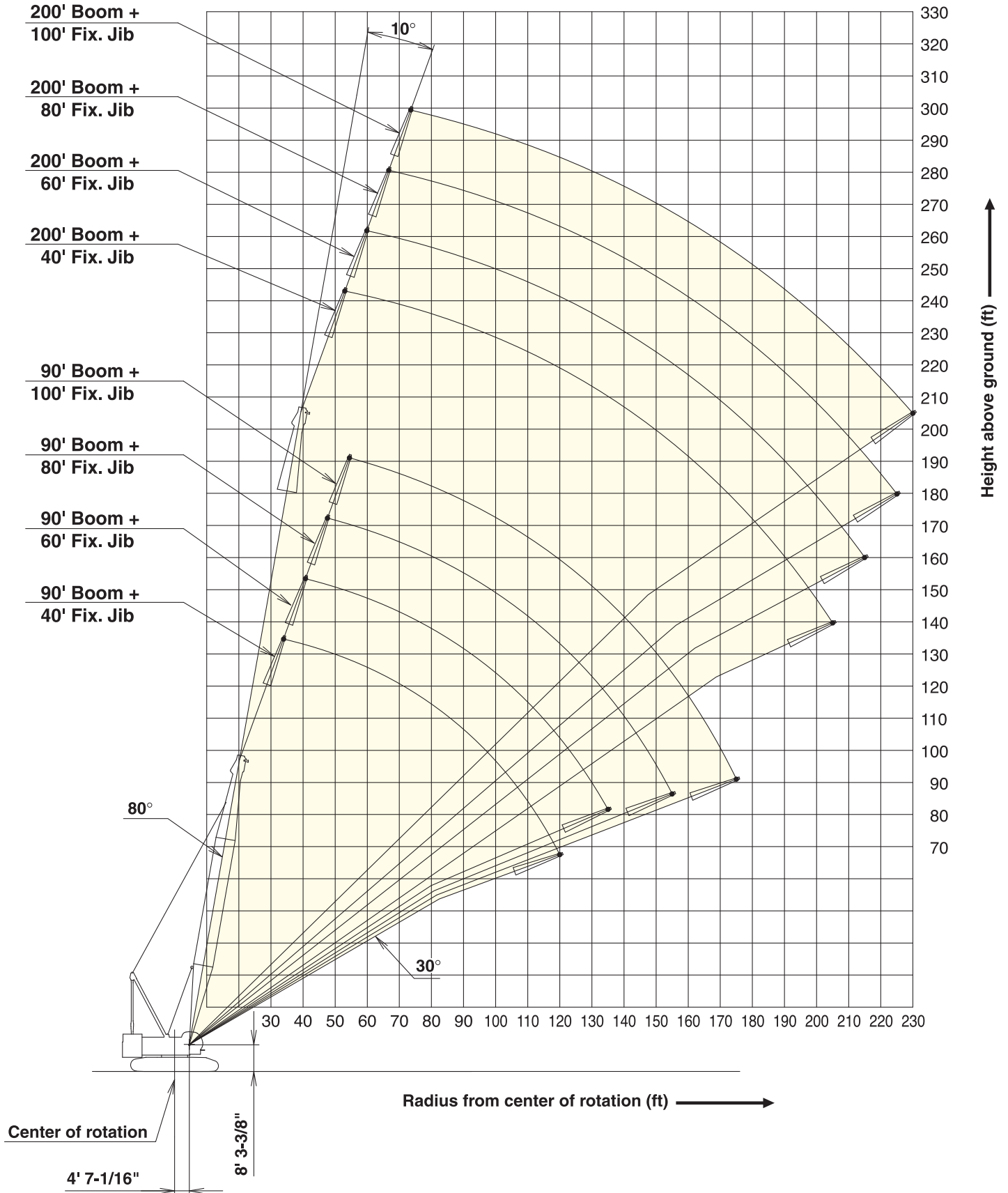
Unit : ft (m)



Working Ranges

Fixed Jib 10° (with additional counterweight)

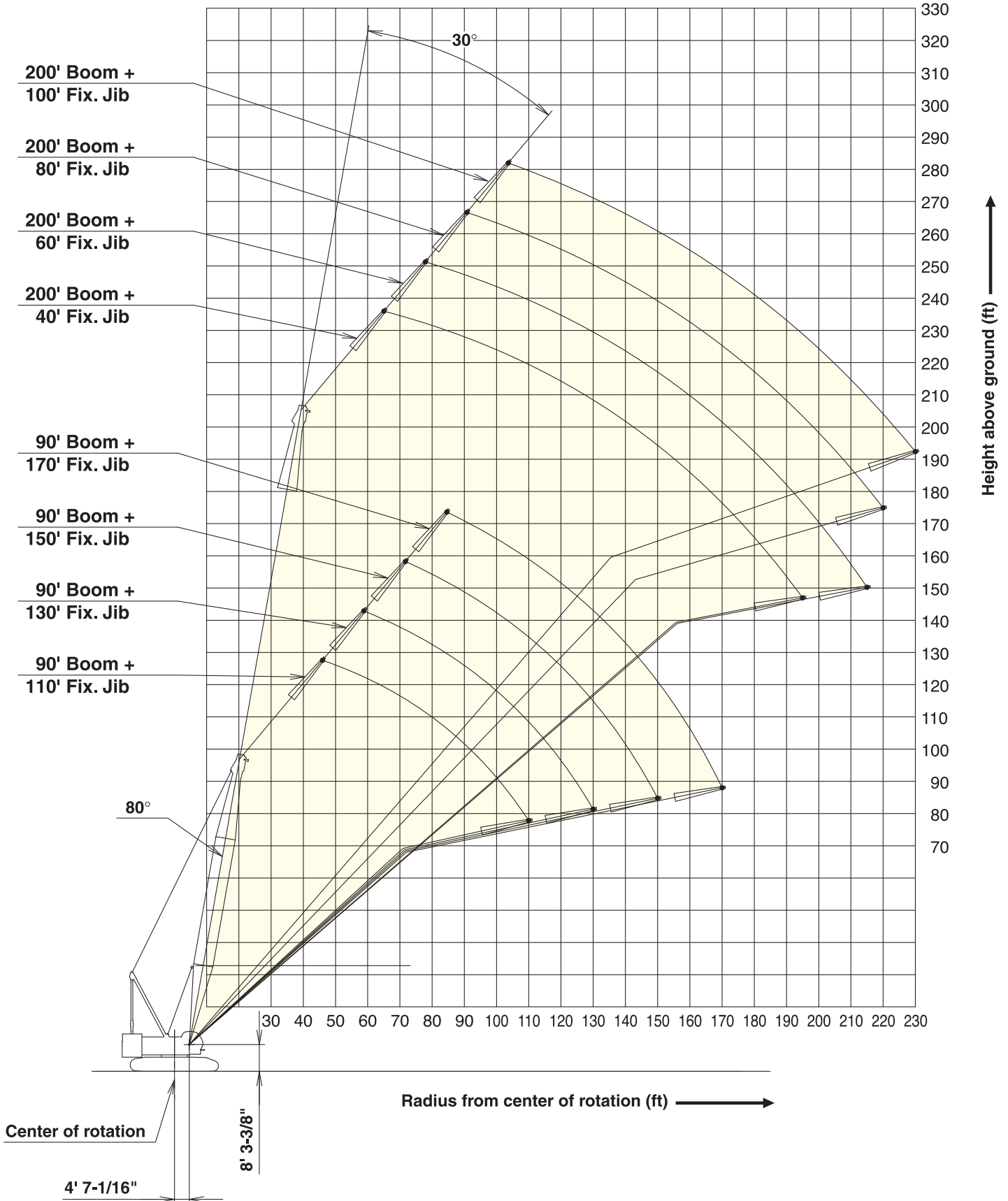
Unit : ft (m)



Working Ranges

Fixed Jib 30°

Unit : ft (m)



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.
 - The crane must be leveled to within 1% on a firm supporting surface.
 - Boom backstops are required for all boom length.
 - 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	Aux Sheave	40 ft	60 ft	80 ft	100 ft
Deduct (lbs)	1,200	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 (12.2 m) jib length with offset angle at 10 degrees, with one part of line on hook is not allowed.
11. The total load that can be lifted by the auxiliary sheave is the value for 1,250 lbs deducted from rated load for the boom (without auxiliary sheave installed); 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) with jib, the blocks for erections must be placed at the end of the crawlers.
14. Least stable position is over the side.
15. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	3	4	5
Maximum Loads (lbs)	25,000	50,000	75,000	100,000	125,000

No. of Parts of line	6	7	8	9	10
Maximum Loads (lbs)	150,000	175,000	200,000	225,000	240,000

Maximum Load for Fixed Jib

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

Maximum Load Auxiliary Sheave

No. of Parts of line	1	2
Maximum Loads (lbs)	24,000	50,000

16. Weight of recommended hook block

Hook Block	160 t	110 t	70 t	30 t	15 t 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 CONSTRUCTION MACHINERY 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.

CK1600G-2 SPECIFICATIONS

Main Boom Lift Capacity

Full Counterweight: 121,300 lbs Carbody Weight: 23,810

50' Boom			60' Boom			70' Boom			80' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
15.0	79.9	320,000 *	17.0	79.6	280,000 *	19.0	79.5	251,100 *	22.0	78.6	211,800 *
16.0	78.7	300,100 *	18.0	78.7	266,000 *	20.0	78.6	238,500 *	24.0	77.1	190,200 *
17.0	77.5	282,500 *	19.0	77.7	251,900 *	22.0	76.9	217,100 *	26.0	75.7	172,600 *
18.0	76.3	266,800 *	20.0	76.7	239,300 *	24.0	75.3	194,600 *	28.0	74.2	157,800 *
19.0	75.1	252,700 *	22.0	74.7	218,000 *	26.0	73.5	176,300 *	30.0	72.7	145,500 *
20.0	73.9	240,100 *	24.0	72.7	197,500 *	28.0	71.8	160,900 *	32.0	71.1	134,400
22.0	71.5	218,300 *	26.0	70.7	178,300 *	30.0	70.1	147,900 *	34.0	69.6	123,000
24.0	69.1	197,700 *	28.0	68.6	162,200 *	32.0	68.3	134,700	36.0	68.1	113,300
26.0	66.5	177,400 *	30.0	66.5	148,300	34.0	66.5	123,400	38.0	66.5	105,100
28.0	64.0	160,400 *	32.0	64.4	134,900	36.0	64.7	113,700	40.0	64.9	97,800
30.0	61.4	145,900 *	34.0	62.2	123,600	38.0	62.8	105,500	45.0	60.8	83,300
32.0	58.7	133,300 *	36.0	60.0	113,900	40.0	61.0	98,300	50.0	56.6	72,300
34.0	55.9	122,100 *	38.0	57.7	105,800	45.0	56.1	83,700	55.0	52.1	63,900
36.0	53.0	112,200 *	40.0	55.4	98,500	50.0	50.9	72,700	60.0	47.4	56,800
38.0	50.0	103,300 *	45.0	49.3	83,900	55.0	45.3	64,300	65.0	42.2	51,300
40.0	46.8	95,200 *	50.0	42.4	72,000 *	60.0	39.0	57,300 *	70.0	36.3	46,700 *
45.0	38.0	76,900 *	55.0	34.4	60,100 *	65.0	31.7	48,700 *	75.0	29.5	40,300 *
Reeves		11	Reeves		10	Reeves		9	Reeves		8
90' Boom			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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0	79.9	207,600 *	24.0	79.8	183,400 *	26.0	79.6	164,200 *	28.0	79.5	147,000 *
24.0	78.6	186,500 *	26.0	78.6	166,400 *	28.0	78.6	150,100 *	30.0	78.6	135,500 *
26.0	77.3	169,000 *	28.0	77.4	152,300 *	30.0	77.5	138,200 *	32.0	77.6	125,600 *
28.0	76.0	154,700 *	30.0	76.2	140,400 *	32.0	76.4	128,300 *	34.0	76.6	117,000 *
30.0	74.6	142,600 *	32.0	75.0	130,200 *	34.0	75.4	119,400 *	36.0	75.6	109,500 *
32.0	73.3	132,200 *	34.0	73.8	121,400 *	36.0	74.3	111,900 *	38.0	74.6	102,900 *
34.0	72.0	122,700	36.0	72.6	112,800	38.0	73.2	104,400	40.0	73.6	96,700
36.0	70.6	113,000	38.0	71.4	104,700	40.0	72.1	97,200	45.0	71.1	82,200
38.0	69.3	104,700	40.0	70.2	97,400	45.0	69.3	82,600	50.0	68.6	71,200
40.0	67.9	97,400	45.0	67.1	82,800	50.0	66.5	71,600	55.0	65.9	62,600
45.0	64.4	82,800	50.0	63.9	71,800	55.0	63.6	63,000	60.0	63.3	55,500
50.0	60.8	72,000	55.0	60.7	63,200	60.0	60.6	56,200	65.0	60.6	50,000
55.0	57.0	63,400	60.0	57.3	56,400	65.0	57.5	50,400	70.0	57.8	45,100
60.0	53.1	56,400	65.0	53.8	50,700	70.0	54.4	45,600	75.0	54.9	41,200
65.0	48.9	50,900	70.0	50.1	46,000	75.0	51.1	41,600	80.0	51.9	37,600
70.0	44.4	46,200	75.0	46.2	41,800	80.0	47.6	38,300	85.0	48.7	34,800
75.0	39.6	42,300	80.0	42.0	38,500	85.0	43.9	35,200	90.0	45.4	32,100
80.0	34.1	38,800 *	85.0	37.4	35,700	90.0	39.9	32,800	95.0	41.9	29,900
			90.0	32.3	32,800 *	95.0	35.6	30,400	100.0	38.1	27,900
						100.0	30.7	27,900 *	105.0	34.0	26,000
Reeves		8	Reeves		7	Reeves		6	Reeves		5

Note: Designed and rated to comply with ANSI Code B30.5
Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
Refer to notes on page 21.

CK1600G-2 SPECIFICATIONS

Main Boom Lift Capacity

Full Counterweight: 121,300 lbs Carbody Weight: 23,810

130' Boom			140' Boom			150' Boom			160' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
30.0	79.5	134,000 *	32.0	79.4	122,100 *	34.0	79.3	112,600 *	34.0	80.0	110,800 *
32.0	78.6	124,100 *	34.0	78.5	113,500 *	36.0	78.5	105,100 *	36.0	79.3	103,600 *
34.0	77.7	115,500 *	36.0	77.7	106,200 *	38.0	77.8	98,700 *	38.0	78.5	97,000 *
36.0	76.7	108,200 *	38.0	76.9	99,800 *	40.0	77.0	93,000 *	40.0	77.8	91,200 *
38.0	75.8	101,600 *	40.0	76.0	94,100 *	45.0	75.0	81,100 *	45.0	76.0	79,500 *
40.0	74.9	95,600 *	45.0	73.9	81,700	50.0	73.0	70,500	50.0	74.1	70,100
45.0	72.6	82,000	50.0	71.7	70,700	55.0	71.0	61,900	55.0	72.2	61,500
50.0	70.3	70,900	55.0	69.6	62,100	60.0	69.0	54,800	60.0	70.3	54,600
55.0	67.9	62,300	60.0	67.4	55,100	65.0	66.9	49,100	65.0	68.4	48,900
60.0	65.5	55,500	65.0	65.1	49,300	70.0	64.8	44,500	70.0	66.5	44,000
65.0	63.0	49,800	70.0	62.8	44,700	75.0	62.6	40,300	75.0	64.5	40,100
70.0	60.5	44,900	75.0	60.5	40,700	80.0	60.4	37,000	80.0	62.5	36,500
75.0	57.9	41,000	80.0	58.1	37,200	85.0	58.2	33,900	85.0	60.4	33,500
80.0	55.3	37,400	85.0	55.6	34,100	90.0	55.9	31,300	90.0	58.3	30,800
85.0	52.5	34,600	90.0	53.1	31,700	95.0	53.6	29,100	95.0	56.2	28,600
90.0	49.7	31,900	95.0	50.5	29,300	100.0	51.1	26,800	100.0	54.0	26,600
95.0	46.7	29,700	100.0	47.7	27,300	105.0	48.6	25,100	105.0	51.7	24,600
100.0	43.5	27,500	105.0	44.9	25,300	110.0	46.0	23,300	110.0	49.4	23,100
105.0	40.2	25,700	110.0	41.8	23,800	115.0	43.2	22,000	115.0	47.0	21,600
110.0	36.6	24,200	115.0	38.6	22,200	120.0	40.3	20,700	120.0	44.4	20,200
115.0	32.6	22,700 *	120.0	35.2	20,900	125.0	37.2	19,400	125.0	41.8	18,900
			125.0	31.4	19,600 *	130.0	33.9	18,200 *	130.0	39.0	17,800
						135.0	30.2	16,500 *	135.0	36.0	16,700
									140.0	32.8	15,600 *
Reeves		5	Reeves		5	Reeves		4	Reeves		4
170' Boom			180' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
36.0	79.9	102,000 *	38.0	79.8	88,400 *	40.0	79.8	88,100 *	45.0	78.8	75,100 *
38.0	79.2	95,600 *	40.0	79.2	88,400 *	45.0	78.2	76,400 *	50.0	77.3	66,100 *
40.0	78.5	89,900 *	45.0	77.6	77,600 *	50.0	76.7	67,200 *	55.0	75.9	58,800 *
45.0	76.8	78,200 *	50.0	75.9	68,500 *	55.0	75.1	59,900 *	60.0	74.4	52,900 *
50.0	75.1	69,200 *	55.0	74.3	61,000 *	60.0	73.5	53,700	65.0	72.9	47,600
55.0	73.3	61,200	60.0	72.6	54,000	65.0	72.0	48,000	70.0	71.4	42,900
60.0	71.5	54,200	65.0	70.9	48,200	70.0	70.4	43,200	75.0	69.9	38,800
65.0	69.7	48,500	70.0	69.2	43,600	75.0	68.7	39,200	80.0	68.3	35,200
70.0	67.9	43,800	75.0	67.5	39,400	80.0	67.1	35,700	85.0	66.8	32,400
75.0	66.1	39,600	80.0	65.8	36,100	85.0	65.5	32,600	90.0	65.2	29,700
80.0	64.2	36,300	85.0	64.0	33,000	90.0	63.8	29,900	95.0	63.6	27,300
85.0	62.3	33,200	90.0	62.2	30,400	95.0	62.1	27,700	100.0	62.0	25,300
90.0	60.4	30,600	95.0	60.4	27,900	100.0	60.4	25,500	105.0	60.3	23,300
95.0	58.4	28,200	100.0	58.5	26,000	105.0	58.6	23,800	110.0	58.7	21,800
100.0	56.4	26,200	105.0	56.6	24,000	110.0	56.8	22,000	115.0	57.0	20,200
105.0	54.4	24,400	110.0	54.7	22,400	115.0	55.0	20,500	120.0	55.2	18,700
110.0	52.2	22,700	115.0	52.7	20,900	120.0	53.1	19,100	125.0	53.5	17,600
115.0	50.1	21,100	120.0	50.6	19,600	125.0	51.2	18,000	130.0	51.6	16,500
120.0	47.8	19,800	125.0	48.5	18,200	130.0	49.2	16,700	135.0	49.8	15,400
125.0	45.5	18,700	130.0	46.4	17,100	135.0	47.2	15,800	140.0	47.9	14,300
130.0	43.0	17,400	135.0	44.1	16,000	140.0	45.0	14,700	145.0	45.9	13,400
135.0	40.5	16,500	140.0	41.7	15,200	145.0	42.9	13,800	150.0	43.8	12,700
140.0	37.8	15,400	145.0	39.3	14,300	150.0	40.6	13,000	155.0	41.7	11,900
145.0	34.9	14,500	150.0	36.6	13,400 *	155.0	38.2	12,300 *	160.0	39.5	11,200 *
150.0	31.8	13,200 *	155.0	33.8	12,300 *	160.0	35.6	11,200 *	165.0	37.1	10,300 *
			160.0	30.8	11,000 *	165.0	32.9	10,100 *	170.0	34.7	9,200 *
						170.0	30.0	9,000 *	175.0	32.0	8,300 *
Reeves		4	Reeves		3	Reeves		3	Reeves		3

Note: Designed and rated to comply with ANSI Code B30.5
Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
Refer to notes on page 21.

CK1600G-2 SPECIFICATIONS

Main Boom Lift Capacity

Full Counterweight: 121,300 lbs Carbody Weight: 23,810

210' Boom			220' Boom			230' Boom			240' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
45.0	79.4	73,800 *	45.0	79.8	58,800 *	50.0	79.0	58,800 *	50.0	79.5	54,400 *
50.0	78.0	65,000 *	50.0	78.5	58,800 *	55.0	77.7	55,700 *	55.0	78.3	51,300 *
55.0	76.6	57,700 *	55.0	77.2	57,700 *	60.0	76.5	50,700 *	60.0	77.0	48,200 *
60.0	75.1	51,800 *	60.0	75.8	51,800 *	65.0	75.2	45,800 *	65.0	75.8	44,700 *
65.0	73.7	46,900 *	65.0	74.5	46,700 *	70.0	73.9	41,400 *	70.0	74.6	40,500 *
70.0	72.3	42,500	70.0	73.1	42,300 *	75.0	72.6	37,900 *	75.0	73.3	37,000 *
75.0	70.9	38,300	75.0	71.8	38,300	80.0	71.3	34,600	80.0	72.1	33,700 *
80.0	69.4	34,800	80.0	70.4	34,800	85.0	69.9	31,500	85.0	70.8	31,000 *
85.0	67.9	31,900	85.0	69.0	31,700	90.0	68.6	28,800	90.0	69.5	28,400
90.0	66.5	29,300	90.0	67.6	29,100	95.0	67.3	26,400	95.0	68.3	26,000
95.0	64.9	26,800	95.0	66.2	26,800	100.0	65.9	24,400	100.0	67.0	24,000
100.0	63.4	24,900	100.0	64.7	24,600	105.0	64.5	22,400	105.0	65.7	22,000
105.0	61.9	22,900	105.0	63.3	22,900	110.0	63.1	20,900	110.0	64.3	20,500
110.0	60.3	21,300	110.0	61.8	21,100	115.0	61.7	19,400	115.0	63.0	18,900
115.0	58.7	19,800	115.0	60.3	19,600	120.0	60.3	17,800	120.0	61.7	17,600
120.0	57.1	18,500	120.0	58.8	18,200	125.0	58.8	16,700	125.0	60.3	16,300
125.0	55.5	17,100	125.0	57.2	16,900	130.0	57.4	15,400	130.0	58.9	15,200
130.0	53.8	16,000	130.0	55.7	15,800	135.0	55.9	14,500	135.0	57.5	14,100
135.0	52.1	14,900	135.0	54.1	14,700	140.0	54.3	13,400	140.0	56.0	13,000
140.0	50.3	13,800	140.0	52.4	13,800	145.0	52.8	12,500	145.0	54.6	12,100
145.0	48.5	13,000	145.0	50.8	13,000	150.0	51.2	11,600	150.0	53.1	11,000
150.0	46.6	12,300	150.0	49.1	12,100	155.0	49.6	10,800	155.0	51.6	10,300
155.0	44.7	11,400	155.0	47.3	11,200	160.0	47.9	9,900	160.0	50.0	9,400
160.0	42.7	10,500	160.0	45.5	10,300	165.0	46.2	9,200	165.0	48.5	8,800
165.0	40.6	9,900	165.0	43.6	9,700	170.0	44.4	8,500	170.0	46.8	7,900
170.0	38.5	9,200 *	170.0	41.7	9,000 *	175.0	42.6	7,900 *	175.0	45.2	7,200
175.0	36.2	8,100 *	175.0	39.7	8,100 *	180.0	40.7	7,000 *	180.0	43.4	6,800 *
180.0	33.8	7,200 *	180.0	37.6	7,200 *	185.0	38.7	6,300 *	185.0	41.7	6,100 *
185.0	31.2	6,300 *	185.0	35.3	6,600 *	190.0	36.7	5,700 *	190.0	39.8	5,200 *
			190.0	33.0	5,700 *	195.0	34.5	4,800 *	195.0	37.9	4,600 *
			195.0	30.5	4,800 *	200.0	32.2	4,100 *			
Reeves		3	Reeves		2	Reeves		2	Reeves		2
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									
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 *									
Reeves		2									

Note: Designed and rated to comply with ANSI Code B30.5
Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
Refer to notes on page 21.

CK1600G-2

SPECIFICATIONS

Fixed Jib Lift Capacity

Full Counterweight: 121,300 lbs Carbody Weight: 23,810

90' Boom																	
Load Radius (ft)	40 ft Jib				60 ft Jib				80 ft Jib				100 ft Jib				Load Radius (ft)
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				
	10		30		10		30		10		30		10		30		
	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	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	79.5	59,000*														34	
36	78.6	59,000*														36	
38	77.7	59,000*														38	
40	76.8	59,000*			79.6	42,500*										40	
42	75.8	58,800*			78.8	42,200*										42	
44	74.9	58,200*			78.0	42,000*										44	
46	74.0	57,600*	79.5	40,100*	77.2	41,700*			79.7	22,000*						46	
48	73.1	57,000*	78.5	39,200*	76.5	41,500*			79.0	21,800*						48	
50	72.2	56,400*	77.5	38,200*	75.7	41,300*			78.3	21,600*			79.6	13,200*		50	
55	69.8	55,100*	75.1	36,100*	73.7	40,300*			76.6	21,300*			78.1	13,000*		55	
60	67.4	53,900*	72.7	34,300*	71.6	39,300*	78.8	27,000*	74.8	20,900*			76.5	12,700*		60	
65	65.0	51,000*	70.2	32,600*	69.6	38,400*	76.6	25,500*	73.0	20,600*			75.0	12,400*		65	
70	62.5	47,200*	67.6	31,200*	67.5	36,100*	74.5	24,200*	71.2	20,000*	79.7	16,700*	73.4	12,100*		70	
75	59.9	43,100*	64.9	29,800*	65.4	33,600*	72.3	23,100*	69.4	19,400*	77.8	16,300*	71.8	11,600*		75	
80	57.3	39,600*	62.2	28,700*	63.2	31,500*	70.0	22,000*	67.5	18,700*	75.9	15,900*	70.1	11,200*	79.8	9,100*	
85	54.5	36,600*	59.4	27,600*	61.0	29,600*	67.7	21,100*	65.7	18,100*	74.0	15,500*	68.5	10,800*	78.1	8,900*	
90	51.7	33,900*	56.5	26,700*	58.7	27,900*	65.4	20,200*	63.7	17,600*	72.0	15,200*	66.8	10,400*	76.4	8,600*	
95	48.8	31,600*	53.4	25,900*	56.3	26,400*	62.9	19,400*	61.8	17,100*	69.9	14,900*	65.1	10,000*	74.6	8,400*	
100	45.6	29,500*	50.1	25,100*	53.9	25,100*	60.4	18,700*	59.8	16,600*	67.9	14,500*	63.4	9,700*	72.8	8,200*	
105	42.3	27,700*	46.6	24,500*	51.4	23,900*	57.8	18,100*	57.7	16,200*	65.7	13,900*	61.7	9,400*	71.0	8,000*	
110	38.8	26,000*	42.9	23,900*	48.8	22,800*	55.1	17,500*	55.6	15,800*	63.5	13,500*	59.9	9,100*	69.2	7,800*	
115	34.9	24,400*			46.1	21,800*	52.2	17,000*	53.5	15,400*	61.3	13,000*	58.1	8,800*	67.3	7,600*	
120	30.6	21,900*			43.2	20,900*	49.2	16,600*	51.2	15,000*	58.9	12,600*	56.2	8,500*	65.4	7,400*	
125					40.2	20,100*	45.9	16,100*	48.9	14,700*	56.5	12,200*	54.3	8,300*	63.4	7,300*	
130					36.9	19,400*	42.3	15,800*	46.5	14,400*	53.9	11,900*	52.3	8,100*	61.3	7,100*	
135					33.3	18,700*			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*		6,400*	
Reeves	2		2		2		1		1		1		1		1		Reeves

100' Boom																	
Load Radius (ft)	40 ft Jib				60 ft Jib				80 ft Jib				100 ft Jib				Load Radius (ft)
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				
	10		30		10		30		10		30		10		30		
	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	
36	79.4	59,000*														36	
38	78.6	59,000*														38	
40	77.7	59,000*														40	
42	76.9	59,000*			79.5	42,400*										42	
44	76.0	58,900*			78.8	42,200*										44	
46	75.2	58,300*			78.1	41,900*										46	
48	74.3	57,700*	79.4	40,000*	77.3	41,700*			79.6	21,900*						48	
50	73.5	57,200*	78.5	39,100*	76.6	41,500*			79.0	21,800*						50	
55	71.3	55,900*	76.3	37,100*	74.7	40,800*			77.3	21,400*			78.7	13,100*		55	
60	69.1	54,700*	74.0	35,200*	72.8	39,900*	79.5	27,600*	75.7	21,100*			77.2	12,800*		60	
65	66.9	51,600*	71.7	33,600*	70.9	39,000*	77.6	26,100*	74.0	20,800*			75.7	12,500*		65	
70	64.6	46,900*	69.4	32,100*	69.0	38,000*	75.6	24,900*	72.3	20,500*			74.2	12,300*		70	
75	62.3	42,800*	67.0	30,800*	67.0	35,500*	73.5	23,700*	70.6	19,800*	78.6	16,400*	72.7	11,900*		75	
80	59.9	39,300*	64.6	29,600*	65.0	33,200*	71.5	22,700*	68.9	19,200*	76.8	16,000*	71.2	11,500*		80	
85	57.5	36,300*	62.0	28,600*	63.0	31,300*	69.4	21,700*	67.1	18,600*	75.0	15,700*	69.6	11,000*	78.7	8,900*	
90	55.0	33,600*	59.4	27,600*	60.9	29,500*	67.2	20,800*	65.3	18,000*	73.1	15,400*	68.1	10,700*	77.1	8,700*	
95	52.4	31,300*	56.7	26,800*	58.8	27,900*	65.0	20,100*	63.5	17,500*	71.2	15,100*	66.5	10,300*	75.5	8,500*	
100	49.6	29,200*	53.9	26,000*	56.6	26,600*	62.7	19,400*	61.7	17,100*	69.3	14,800*	64.9	10,000*	73.8	8,300*	
105	46.8	27,300*	51.0	25,300*	54.3	25,300*	60.4	18,700*	59.8	16,600*	67.4	14,300*	63.2	9,700*	72.1	8,100*	
110	43.8	25,600*	47.9	24,700*	52.0	24,100*	58.0	18,100*	57.9	16,200*	65.4	13,800*	61.6	9,300*	70.4	7,900*	
115	40.7	24,100*	44.5	24,100*	49.6	23,100*	55.5	17,600*	55.9	15,800*	63.3	13,400*	59.9	9,100*	68.7	7,700*	
120	37.3	22,700*	40.9	23,000*	47.1	22,100*	52.8	17,100*	53.9	15,400*	61.2	13,000*	58.2	8,800*	66.9	7,500*	
125	33.5	21,100*			44.5	21,300*	50.1	16,700*	51.8	15,100*	59.0	12,600*	56.4	8,500*	65.1	7,400*	
130					41.7	20,500*	47.1	16,300*	49.6	14,800*	56.7	12,200*	54.6	8,300*	63.2	7,200*	
135					38.8	19,700*	43.9	15,900*	47.4	14,500*	54.3	11,900*	52.7	8,100*	61.3	7,100*	
140					35.6	18,600*	40.5	15,600*	45.0	14,200*	51.9	11,600*	50.8	7,900*	59.3	7,000*	
145					32.1	17,000*			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*		6,400*	
Reeves	2		2		2		1		1		1		1		1		Reeves

Note: Designed and rated to comply with ANSI Code B30.5
 Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
 Refer to notes on page 21.

CK1600G-2

SPECIFICATIONS

Fixed Jib Lift Capacity

Full Counterweight: 121,300 lbs Carbody Weight: 23,810

110' Boom																	
Load Radius (ft)	40 ft Jib				60 ft Jib				80 ft Jib				100 ft Jib				Load Radius (ft)
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				
	10		30		10		30		10		30		10		30		
	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	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	59,000*														38	
40	78.6	59,000*														40	
42	77.8	59,000*														42	
44	77.0	59,000*			79.5	42,300*										44	
46	76.2	58,900*			78.8	42,100*										46	
48	75.4	58,400*			78.1	41,900*										48	
50	74.6	57,800*	79.3	39,900*	77.4	41,700*		79.6	21,900*							50	
55	72.6	56,600*	77.3	37,900*	75.6	41,200*		78.0	21,600*			79.3	13,100*			55	
60	70.6	55,400*	75.2	36,100*	73.9	40,300*		76.5	21,200*			77.8	12,900*			60	
65	68.5	51,300	73.1	34,500*	72.1	39,500*	78.4	26,700*	74.9	20,900*		76.4	12,600*			65	
70	66.4	46,500	70.9	33,000*	70.3	38,600*	76.5	25,400*	73.3	20,600*		75.0	12,400*			70	
75	64.3	42,500	68.8	31,700*	68.5	37,300*	74.6	24,300*	71.7	20,200*		73.6	12,200*			75	
80	62.1	38,900	66.5	30,500*	66.6	35,000*	72.7	23,300*	70.1	19,600*	79.2	16,600*				80	
85	59.9	35,900	64.2	29,500*	64.7	32,900*	70.8	22,300*	68.4	19,000*	75.9	15,800*	79.3	9,000*		85	
90	57.6	33,300	61.9	28,500*	62.8	31,100*	68.8	21,400*	66.8	18,400*	74.1	15,500*	69.2	10,900*	77.8	8,800*	
95	55.3	30,900	59.5	27,600*	60.8	29,400*	66.8	20,700*	65.1	17,900*	72.4	15,200*	67.7	10,600*	76.3	8,500*	
100	52.9	28,800	57.0	26,800*	58.8	28,000*	64.7	19,900*	63.3	17,500*	70.6	14,900*	66.2	10,200*	74.7	8,300*	
105	50.4	27,000	54.4	26,100*	56.8	26,600*	62.6	19,300*	61.6	17,000*	68.8	14,700*	64.6	9,900*	73.1	8,200*	
110	47.8	25,300	51.7	25,400*	54.7	25,400*	60.4	18,700*	59.8	16,600*	66.9	14,200*	63.1	9,600*	71.5	8,000*	
115	45.1	23,800	48.9	24,100	52.5	24,200	58.1	18,100*	58.0	16,200*	65.0	13,800*	61.5	9,300*	69.9	7,800*	
120	42.2	22,400	45.9	22,700	50.3	22,800	55.8	17,600*	56.1	15,800*	63.1	13,300*	59.9	9,100*	68.2	7,600*	
125	39.2	21,100	42.6	21,400	48.0	21,500	53.3	17,200*	54.2	15,500*	61.1	12,900*	58.3	8,800*	66.5	7,500*	
130	35.9	20,000			45.6	20,400	50.8	16,700*	52.2	15,200*	59.1	12,600*	56.6	8,600*	64.8	7,300*	
135	32.3	18,200*			43.0	19,300	48.1	16,400*	50.2	14,900*	56.9	12,200*	54.9	8,300*	63.0	7,200*	
140					40.4	18,300	45.3	16,000*	48.1	14,600*	54.7	11,900*	53.1	8,100*	61.2	7,100*	
145					37.5	17,400	42.2	15,700*	45.9	14,300*	52.4	11,600*	51.3	7,900*	59.3	7,000*	
150					34.4	16,200*			43.7	14,100*	50.0	11,400*	49.5	7,800*	57.4	6,900*	
155					31.1	14,800*			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*		190	
Reeves	2		2		2		1		1		1		1		1	Reeves	

120' Boom																	
Load Radius (ft)	40 ft Jib				60 ft Jib				80 ft Jib				100 ft Jib				Load Radius (ft)
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				
	10		30		10		30		10		30		10		30		
	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	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	59,000*														38	
40	79.3	59,000*														40	
42	78.5	59,000*														42	
44	77.8	59,000*														44	
46	77.1	59,000*			79.4	42,300*										46	
48	76.3	59,000*			78.8	42,100*										48	
50	75.6	58,500*	80.0	40,600*	78.1	41,900*										50	
55	73.7	57,200*	78.1	38,700*	76.5	41,400*			78.6	21,700*		79.7	13,200*			55	
60	71.8	56,100*	76.2	36,900*	74.8	40,700*			77.2	21,400*		78.4	13,000*			60	
65	69.9	50,900	74.2	35,300*	73.1	39,900*	79.1	27,200*	75.7	21,000*		77.1	12,700*			65	
70	68.0	46,100	72.2	33,900*	71.4	39,100*	77.3	25,900*	74.2	20,800*		75.7	12,500*			70	
75	66.0	42,000	70.2	32,600*	69.7	38,400*	75.6	24,800*	72.7	20,500*	79.8	16,700*	74.4	12,300*		75	
80	64.0	38,500	68.2	31,400*	68.0	36,600*	73.8	23,800*	71.1	19,900*	78.2	16,300*	73.0	12,000*		80	
85	62.0	35,400	66.1	30,300*	66.2	34,500*	72.0	22,900*	69.6	19,400*	76.6	16,000*	71.6	11,500*	79.9	9,100*	
90	59.9	32,800	64.0	29,300*	64.5	32,600*	70.1	22,000*	68.0	18,800*	75.0	15,700*	70.2	11,100*	78.4	8,900*	
95	57.8	30,400	61.8	28,400*	62.6	30,900*	68.3	21,200*	66.4	18,300*	73.4	15,400*	68.8	10,800*	77.0	8,600*	
100	55.6	28,300	59.5	27,600*	60.8	28,800	66.3	20,500*	64.8	17,900*	71.7	15,100*	67.3	10,500*	75.5	8,400*	
105	53.4	26,500	57.2	26,800*	58.9	26,900	64.4	19,800*	63.2	17,400*	70.0	14,900*	65.9	10,100*	74.0	8,200*	
110	51.1	24,800	54.8	25,300	57.0	25,200	62.4	19,200*	61.5	17,000*	68.3	14,600*	64.4	9,800*	72.5	8,100*	
115	48.7	23,300	52.3	23,700	55.0	23,700	60.3	18,700*	59.8	16,600*	66.6	14,100*	62.9	9,600*	71.0	7,900*	
120	46.2	21,900	49.7	22,300	53.0	22,300	58.2	18,200*	58.1	16,200*	64.8	13,700*	61.4	9,300*	69.4	7,700*	
125	43.5	20,600	47.0	21,000	50.9	21,000	56.1	17,700*	56.3	15,900*	62.9	13,300*	59.9	9,000*	67.8	7,600*	
130	40.8	19,500	44.1	19,800	48.7	19,900	53.8	17,200*	54.5	15,500*	61.0	12,900*	58.3	8,800*	66.2	7,400*	
135	37.8	18,400	41.0	18,700	46.5	18,800	51.4	16,800*	52.7	15,200*	59.1	12,600*	56.7	8,600*	64.5	7,300*	
140	34.7	17,100*			44.1	17,800	49.0	16,500*	50.8	14,900*	57.1	12,300*	55.1	8,300*	62.8	7,200*	
145	31.2	15,500*			41.7	16,900	46.4	16,200*	48.8	14,700*	55.0	11,900*	53.5	8,200*	61.1	7,100*	
150					39.1	16,100	43.6	15,800*	46.8	14,400*	52.9	11,700*	51.8	8,000*	59.3	7,000*	
155					36.4	15,100*	40.6	15,600*	44.6	14,100*	50.7	11,400*	50.0	7,800*	57.5	6,900*	
160					33.4	13,800*			42.4	13,900*	48.3	11,200*	48.2	7,600*	55.6	6,800*	
165					30.1	12,600*			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*		195	
200													30.7	6,600*		200	
Reeves	2		2		2		1		1		1		1		1	Reeves	

Note: Designed and rated to comply with ANSI Code B30.5

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

Refer to notes on page 21.

CK1600G-2 SPECIFICATIONS

Fixed Jib Lift Capacity

Full Counterweight: 121,300 lbs Carbody Weight: 23,810

190' Boom																	
Load Radius (ft)	40 ft Jib				60 ft Jib				80 ft Jib				100 ft Jib				Load Radius (ft)
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				
	10		30		10		30		10		30		10		30		
	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	
50	80.0	53,100*														50	
55	78.8	52,400*														55	
60	77.5	51,600*														60	
65	76.2	48,300*														65	
70	74.9	43,600														70	
75	73.6	39,500														75	
80	72.3	36,000														80	
85	71.0	32,900														85	
90	69.7	30,200														90	
95	68.3	27,800														95	
100	67.0	25,700														100	
105	65.6	23,800														105	
110	64.2	22,100														110	
115	62.8	20,600														115	
120	61.4	19,200														120	
125	59.9	17,900														125	
130	58.5	16,700														130	
135	57.0	15,700														135	
140	55.5	14,700														140	
145	53.9	13,800														145	
150	52.3	12,900														150	
155	50.7	12,100*														155	
160	49.1	11,200*														160	
165	47.4	10,300*														165	
170	45.6	9,500*														170	
175	43.8	8,700*														175	
180	41.9	8,000*														180	
185	40.0	7,200*														185	
190	37.9	6,500*														190	
195	35.8	5,700*														195	
200	33.6	5,000*														200	
205	31.1	4,300*														205	
210																210	
215																215	
220																220	
225																225	
230																230	
235																235	
240																240	
245																245	

Reeves	2		2		2		1		1		1		1		1	Reeves
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200' Boom																	
Load Radius (ft)	40 ft Jib				60 ft Jib				80 ft Jib				100 ft Jib				Load Radius (ft)
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				
	10		30		10		30		10		30		10		30		
	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	
55	79.2	46,200*														55	
60	78.0	45,500*														60	
65	76.8	44,700*														65	
70	75.6	42,900*														70	
75	74.3	39,100*														75	
80	73.1	35,700														80	
85	71.8	32,600														85	
90	70.6	30,000														90	
95	69.3	27,600														95	
100	68.0	25,500														100	
105	66.7	23,600														105	
110	65.4	21,800														110	
115	64.0	20,300														115	
120	62.7	18,900														120	
125	61.3	17,600														125	
130	60.0	16,400														130	
135	58.5	15,400														135	
140	57.1	14,400														140	
145	55.7	13,400														145	
150	54.2	12,500*														150	
155	52.7	11,600*														155	
160	51.1	10,800*														160	
165	49.6	9,900*														165	
170	48.0	9,100*														170	
175	46.3	8,400*														175	
180	44.6	7,700*														180	
185	42.8	6,900*														185	
190	41.0	6,300*														190	
195	39.1	5,600*														195	
200	37.1	4,900*														200	
205	35.0	4,200*														205	
210																210	
215																215	
220																220	
225																225	
230																230	
235																235	
240																240	

Reeves	2		2		2		1		1		1		1		1	Reeves
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Note: Designed and rated to comply with ANSI Code B30.5

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.

Refer to notes on page 21.

Supplemental Data - Clamshell

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 66% 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.

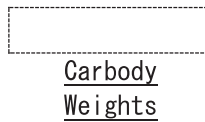
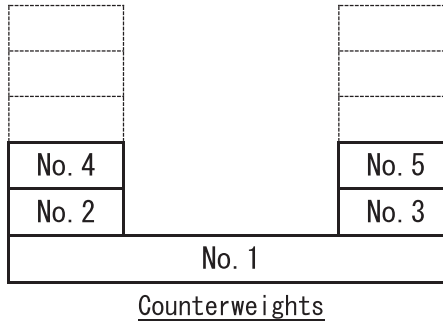
Machine shall be positively secured to prevent shifting.
 Boom backstops are required for all boom length.
 Gantry must be fully raised position for all operations.
 Crawlers must be fully extended and be locked in position.
 Must have 61,750 lbs (4) Counterweights installed, and without carbody weights.

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. The boom should be erected over the front of the crawlers, not laterally.
8. Least stable position is over the side.
9. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

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

10. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
11. Assembling the Counterweight
 61,750 lbs counterweight (No. 1 ~ No. 5)
 Without Carbody weights



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

Clamshell

Boom:

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

Basic boom length: 40 ft (12.2 m)

Max. boom length: 120 ft (36.6 m)

Limit on clamshell bucket weight: 4,600 lbs (2,100 kg)

Optional tagline: Hydraulic operated type and spring type.

Boom Component Chart:

Boom length ft (m)	Boom arrangement
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip
80 (24.4)	Base-A-A-B-Tip, Base-B-B-Tip
90 (27.4)	Base-A-C-Tip
100 (30.5)	Base-A-A-B-B-Tip, Base-A-A-C-Tip
110 (33.5)	Base-A-B-C-Tip
120 (36.6)	Base-A-A-B-C-Tip, Base-B-B-C-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.
4. The combined weight of the bucket and load must not exceed these capacities.

5 Counterweights (61,750 lbs) - Without Carbody weights.

50' Boom			60' Boom			70' 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	64.0	29,500 *	32.0	64.4	29,500 *	36.0	64.7	29,500 *
30.0	61.4	29,500 *	34.0	62.2	29,500 *	38.0	62.8	29,500 *
32.0	58.7	29,500 *	36.0	60.0	29,500 *	40.0	61.0	29,500 *
34.0	55.9	29,500 *	38.0	57.7	29,500 *	42.0	59.1	29,500 *
36.0	53.0	29,500 *	40.0	55.4	29,500 *	44.0	57.1	29,500 *
38.0	50.0	29,500 *	42.0	53.0	29,500 *	46.0	55.1	29,500 *
40.0	46.8	29,500 *	44.0	50.5	29,500 *	48.0	53.0	29,500 *
42.0	43.5	29,500 *	46.0	47.9	29,500 *	50.0	50.9	29,500 *
44.0	39.9	29,500 *	48.0	45.2	29,500 *	55.0	45.3	29,500 *
46.0	36.0	29,500 *	50.0	42.4	29,500 *	60.0	39.0	29,500 *
			55.0	34.4	29,500 *	65.0	31.7	27,900 *

Refer to notes on page 31.

Clamshell

5 Counterweights (61,750 lbs) - Without Carbody weights.

80' Boom			90' Boom			100' 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)
40.0	64.9	29,500 *	46.0	63.7	26,800 *	50.0	63.9	22,700 *
42.0	63.3	29,500 *	48.0	62.2	26,800 *	55.0	60.7	21,500 *
44.0	61.7	29,500 *	50.0	60.8	26,700 *	60.0	57.3	20,500 *
46.0	60.0	29,500 *	55.0	57.0	25,500 *	65.0	53.8	19,700 *
48.0	58.3	29,500 *	60.0	53.1	24,400 *	70.0	50.1	18,900 *
50.0	56.6	29,500 *	65.0	48.9	23,400 *	75.0	46.2	18,100 *
55.0	52.1	29,500 *	70.0	44.4	22,600 *	80.0	42.0	17,400 *
60.0	47.4	29,300 *	75.0	39.6	21,600 *	85.0	37.4	16,700 *
65.0	42.2	28,000	80.0	34.1	20,700	90.0	32.3	16,200 *
70.0	36.3	25,300						
110' Boom			120' Boom					
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)			
55.0	63.6	18,200 *	60.0	63.3	14,400 *			
60.0	60.6	17,200 *	65.0	60.6	13,700 *			
65.0	57.5	16,600 *	70.0	57.8	13,000 *			
70.0	54.4	15,900 *	75.0	54.9	12,500 *			
75.0	51.1	15,200 *	80.0	51.9	11,900 *			
80.0	47.6	14,500 *	85.0	48.7	11,400 *			
85.0	43.9	13,900 *	90.0	45.4	10,900 *			
90.0	39.9	13,400 *	95.0	41.9	10,500 *			
95.0	35.6	13,000 *	100.0	38.1	10,000 *			
100.0	30.7	12,400 *	105.0	34.0	9,600 *			

Refer to notes on page 31.

Supplemental Data - Barge

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.
 - Machine shall be positively secured to prevent shifting.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Must have 121,300 lbs (11) Counterweights fully installed.
 - Must have 23,810 lbs (2) Carbody weights fully installed.
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	Aux Sheave	40 ft	60 ft	80 ft	100 ft
Deduct (lbs)	1,250	Not Applicable			

When auxiliary sheave is used for 11 reeving parts of line, it is not required to deduct 1,250 lbs from rated loads.

8. To install the jib is prohibited when the machine is on a barge.
9. The total load that can be lifted over an auxiliary sheave is the value for 1,250 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 59,000 lbs.
10. Boom lengths that can attach auxiliary sheave are from 50 ft (15.2 m) to 240 ft (73.2 m).

11. The boom should be erected over the front of the crawlers, not laterally.
12. Least stable position is over the side.
13. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum 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

Maximum Load Auxiliary Sheave

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

14. Weight of recommended hook block.

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

Warning: If the weight of the hook block to be used is lighter than the recommended weight, the jib may turn over backward or will be difficult to lower the empty hook block.

15. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
16. Designed and rated to comply with ANSI Code B30.5.

CK1600G-2 SPECIFICATIONS

Barge

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

50' Boom					60' Boom					70' Boom							
360° Rated Load (lbs)					360° Rated Load (lbs)					360° Rated Load (lbs)							
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
15.0	79.9	320,000 *				17.0	79.6	280,000 *				19.0	79.5	251,100 *			
16.0	78.7	300,100 *	262,300 *			18.0	78.7	266,000 *	235,600 *			20.0	78.6	238,500 *	205,000 *		
17.0	77.5	282,500 *	252,400 *	194,200 *		19.0	77.7	251,900 *	228,200 *			22.0	76.9	217,100 *	194,600 *	138,100 *	108,900 *
18.0	76.3	266,800 *	242,600 *	193,100 *	156,600 *	20.0	76.7	239,300 *	220,800 *	163,500 *		24.0	75.3	194,600 *	176,300 *	135,600 *	107,300 *
19.0	75.1	252,700 *	232,700 *	192,000 *	155,800 *	22.0	74.7	218,000 *	197,500 *	158,900 *	126,700 *	26.0	73.5	176,300 *	160,900 *	133,300 *	106,000 *
20.0	73.9	240,100 *	222,900 *	190,900 *	154,800 *	24.0	72.7	197,500 *	178,300 *	155,900 *	124,700 *	28.0	71.8	160,900 *	147,900 *	131,100 *	104,400 *
22.0	71.5	218,300 *	206,400 *	188,700 *	152,500 *	26.0	70.7	178,300 *	162,200 *	151,400 *	122,700 *	30.0	70.1	147,900 *	134,700 *	126,700 *	102,900 *
24.0	69.1	197,700 *	187,600 *	177,400 *	149,800 *	28.0	68.6	162,200 *	148,300 *	141,600 *	120,800 *	32.0	68.3	134,700 *	123,400 *	118,600 *	101,600 *
26.0	66.5	177,400 *	168,900 *	160,400 *	146,900 *	30.0	66.5	148,300 *	134,900 *	129,200 *	119,000 *	34.0	66.5	123,400 *	113,700 *	109,600 *	100,300 *
28.0	64.0	160,400 *	153,200 *	145,900 *	139,400 *	32.0	64.4	134,900 *	123,600 *	118,800 *	113,900 *	36.0	64.7	113,700 *	105,500 *	101,900 *	98,300 *
30.0	61.4	145,900 *	139,600 *	133,300 *	127,700 *	34.0	62.2	123,600 *	113,900 *	109,800 *	105,800 *	38.0	62.8	105,500 *	98,300 *	95,100 *	91,900 *
32.0	58.7	133,300 *	127,700 *	122,100 *	117,100 *	36.0	60.0	113,900 *	105,800 *	103,300 *	100,900 *	40.0	61.0	98,300 *	91,900 *	89,100 *	86,400 *
34.0	55.9	122,100 *	117,100 *	112,200 *	107,800 *	38.0	57.7	105,800 *	100,900 *	98,500 *	95,300 *	45.0	56.1	83,700 *	79,100 *	76,900 *	74,900 *
36.0	53.0	112,200 *	107,800 *	103,300 *	99,300 *	40.0	55.4	98,500 *	95,300 *	92,100 *	89,300 *	50.0	50.9	72,700 *	70,100 *	68,600 *	67,200 *
38.0	50.0	103,300 *	99,300 *	95,200 *	91,300 *	45.0	49.3	83,900 *	81,500 *	79,300 *	77,100 *	55.0	45.3	64,300 *	62,900 *	61,500 *	60,100 *
40.0	46.8	95,200 *	91,300 *	87,500 *	83,900 *	50.0	42.4	72,000 *	69,700 *	67,300 *	64,900 *	60.0	39.0	57,300 *	55,500 *	53,800 *	52,100 *
45.0	38.0	76,900 *	73,600 *	70,300 *	70,300 *	55.0	34.4	60,100 *	57,800 *	55,400 *	54,200 *	65.0	31.7	48,700 *	46,900 *	45,100 *	44,300 *
Reeves		11	9	7	6	Reeves		10	8	6	5	Reeves		9	7	5	4
80' Boom					90' Boom					100' Boom							
360° Rated Load (lbs)					360° Rated Load (lbs)					360° Rated Load (lbs)							
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
22.0	78.6	211,800 *	179,800 *			22.0	79.9	207,600 *				24.0	79.8	183,400 *			
24.0	77.1	190,200 *	172,600 *	119,800 *		24.0	78.6	186,500 *	158,900 *			26.0	78.6	166,400 *	141,700 *		
26.0	75.7	172,600 *	157,800 *	117,900 *	92,200 *	26.0	77.3	169,000 *	154,700 *	104,200 *		28.0	77.4	152,300 *	139,100 *	92,500 *	
28.0	74.2	157,800 *	145,500 *	116,100 *	91,000 *	28.0	76.0	154,700 *	142,600 *	102,900 *	80,500 *	30.0	76.2	140,400 *	130,200 *	91,400 *	70,900 *
30.0	72.7	145,500 *	134,400 *	114,400 *	89,800 *	30.0	74.6	142,600 *	132,200 *	101,400 *	79,500 *	32.0	75.0	130,200 *	121,400 *	90,100 *	70,100 *
32.0	71.1	134,400 *	123,000 *	112,700 *	88,700 *	32.0	73.3	132,200 *	122,700 *	100,000 *	78,700 *	34.0	73.8	121,400 *	112,800 *	89,000 *	69,400 *
34.0	69.6	123,000 *	113,300 *	108,500 *	87,600 *	34.0	72.0	122,700 *	113,000 *	98,700 *	77,800 *	36.0	72.6	112,800 *	104,700 *	87,900 *	68,500 *
36.0	68.1	113,300 *	105,100 *	101,500 *	86,600 *	36.0	70.6	113,000 *	104,700 *	97,400 *	76,900 *	38.0	71.4	104,700 *	97,400 *	86,800 *	67,900 *
38.0	66.5	105,100 *	97,800 *	94,600 *	85,600 *	38.0	69.3	104,700 *	97,400 *	91,200 *	76,000 *	40.0	70.2	97,400 *	91,000 *	85,300 *	67,200 *
40.0	64.9	97,800 *	91,400 *	88,700 *	83,000 *	40.0	67.9	97,400 *	91,200 *	85,500 *	75,100 *	45.0	67.1	82,800 *	78,100 *	73,800 *	65,400 *
45.0	60.8	83,300 *	78,700 *	76,400 *	74,400 *	45.0	64.4	82,800 *	78,200 *	74,000 *	72,000 *	50.0	63.9	71,800 *	68,400 *	64,900 *	63,200 *
50.0	56.6	72,300 *	68,900 *	67,200 *	65,600 *	50.0	60.8	72,000 *	68,600 *	66,300 *	63,400 *	55.0	60.7	63,200 *	60,500 *	57,800 *	56,400 *
55.0	52.1	63,900 *	61,100 *	59,700 *	58,200 *	55.0	57.0	63,400 *	60,600 *	59,200 *	56,400 *	60.0	57.3	56,400 *	54,100 *	51,800 *	50,700 *
60.0	47.4	56,800 *	54,600 *	53,500 *	52,400 *	60.0	53.1	56,400 *	54,200 *	53,100 *	51,800 *	65.0	53.8	50,700 *	48,800 *	47,600 *	46,000 *
65.0	42.2	51,300 *	49,800 *	49,000 *	48,200 *	65.0	48.9	50,900 *	49,000 *	48,100 *	47,200 *	70.0	50.1	46,000 *	44,400 *	43,500 *	41,800 *
70.0	36.3	46,700 *	45,400 *	44,100 *	42,900 *	70.0	44.4	46,200 *	44,700 *	43,900 *	43,100 *	75.0	46.2	41,800 *	40,500 *	39,900 *	39,100 *
75.0	29.5	40,300 *	38,900 *	37,500 *	36,800 *	75.0	39.6	42,300 *	40,900 *	40,200 *	39,500 *	80.0	42.0	38,500 *	37,400 *	36,800 *	36,200 *
						80.0	34.1	38,800 *	37,100 *	36,200 *	35,400 *	85.0	37.4	35,700 *	34,500 *	33,900 *	33,400 *
												90.0	32.3	32,800 *	31,400 *	30,700 *	30,000 *
Reeves		8	7	5	4	Reeves		8	6	4	3	Reeves		7	5	4	3

Refer to notes on page 34.

CK1600G-2 SPECIFICATIONS

Barge

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

110' Boom					120' Boom					130' Boom							
		360° Rated Load (lbs)						360° Rated Load (lbs)						360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
26.0	79.6	164,200*				28.0	79.5	147,000*				30.0	79.5	134,000*			
28.0	78.6	150,100*	126,100*			30.0	78.6	135,500*	113,900*			32.0	78.6	124,100*	103,000*		
30.0	77.5	138,200*	123,100*	82,800*		32.0	77.6	125,600*	111,300*	74,000*		34.0	77.7	115,500*	101,600*	66,900*	
32.0	76.4	128,300*	119,400*	81,700*	63,200*	34.0	76.6	117,000*	106,200*	73,100*	56,300*	36.0	76.7	108,200*	98,300*	66,100*	50,700*
34.0	75.4	119,400*	111,900*	80,900*	62,600*	36.0	75.6	109,500*	99,800*	72,300*	55,700*	38.0	75.8	101,600*	93,000*	65,300*	50,200*
36.0	74.3	111,900*	104,400*	79,800*	61,900*	38.0	74.6	102,900*	93,500*	71,500*	55,300*	40.0	74.9	95,600*	87,500*	64,700*	49,800*
38.0	73.2	104,400*	97,200*	78,900*	61,200*	40.0	73.6	96,700*	87,600*	70,700*	54,700*	45.0	72.6	82,000*	75,100*	63,000*	48,700*
40.0	72.1	97,200*	90,800*	78,000*	60,800*	45.0	71.1	82,200*	75,100*	69,000*	53,400*	50.0	70.3	70,900*	65,800*	61,500*	47,600*
45.0	69.3	82,600*	77,900*	73,600*	59,200*	50.0	68.6	71,200*	66,000*	62,600*	52,200*	55.0	67.9	62,300*	58,200*	55,500*	46,600*
50.0	66.5	71,600*	68,200*	64,700*	57,800*	55.0	65.9	62,600*	58,300*	55,500*	51,000*	60.0	65.5	55,500*	52,100*	49,800*	45,600*
55.0	63.6	63,000*	60,300*	57,500*	55,000*	60.0	63.3	55,500*	52,700*	50,900*	49,000*	65.0	63.0	49,800*	46,900*	44,900*	43,300*
60.0	60.6	56,200*	53,900*	51,600*	49,500*	65.0	60.6	50,000*	48,100*	46,100*	44,400*	70.0	60.5	44,900*	42,500*	41,000*	39,800*
65.0	57.5	50,400*	48,500*	46,600*	44,900*	70.0	57.8	45,100*	43,600*	42,000*	40,500*	75.0	57.9	41,000*	39,200*	38,000*	36,900*
70.0	54.4	45,600*	44,000*	42,400*	41,600*	75.0	54.9	41,200*	39,800*	38,400*	37,100*	80.0	55.3	37,400*	36,300*	35,100*	34,000*
75.0	51.1	41,600*	40,300*	39,000*	38,300*	80.0	51.9	37,600*	36,500*	35,400*	34,300*	85.0	52.5	34,600*	33,500*	32,400*	31,500*
80.0	47.6	38,300*	37,100*	36,300*	35,200*	85.0	48.7	34,800*	33,700*	32,700*	32,100*	90.0	49.7	31,900*	31,000*	30,200*	29,300*
85.0	43.9	35,200*	34,300*	33,800*	32,800*	90.0	45.4	32,100*	31,300*	30,400*	29,900*	95.0	46.7	29,700*	28,800*	27,900*	27,200*
90.0	39.9	32,800*	31,800*	31,300*	30,800*	95.0	41.9	29,900*	29,100*	28,600*	27,900*	100.0	43.5	27,500*	26,800*	26,100*	25,700*
95.0	35.6	30,400*	29,400*	28,900*	28,400*	100.0	38.1	27,900*	27,200*	26,800*	26,300*	105.0	40.2	25,700*	25,100*	24,700*	24,200*
100.0	30.7	27,900*	26,800*	26,200*	25,600*	105.0	34.0	26,000*	25,100*	24,600*	24,200*	110.0	36.6	24,200*	23,600*	23,300*	22,700*
												115.0	32.6	22,700*	21,700*	21,200*	20,600*
Reeves		6	5	3	3	Reeves		5	4	3	2	Reeves		5	4	3	2
140' Boom					150' Boom					160' Boom							
		360° Rated Load (lbs)						360° Rated Load (lbs)						360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
32.0	79.4	122,100*				34.0	79.3	112,600*				34.0	80.0	110,800*			
34.0	78.5	113,500*	94,100*			36.0	78.5	105,100*	85,200*			36.0	79.3	103,600*			
36.0	77.7	106,200*	92,800*	60,400*		38.0	77.8	98,700*	84,100*	54,600*		38.0	78.5	97,000*	78,000*		
38.0	76.9	99,800*	90,600*	60,100*	45,800*	40.0	77.0	93,000*	83,000*	54,200*		40.0	77.8	91,200*	77,100*	50,000*	
40.0	76.0	94,100*	86,700*	59,600*	45,400*	45.0	75.0	81,100*	74,500*	52,800*	40,400*	45.0	76.0	79,500*	73,800*	48,700*	36,900*
45.0	73.9	81,700*	74,700*	58,200*	44,400*	50.0	73.0	70,500*	65,300*	51,500*	39,500*	50.0	74.1	70,100*	64,900*	47,600*	36,200*
50.0	71.7	70,700*	65,600*	56,600*	43,500*	55.0	71.0	61,900*	57,700*	50,300*	38,700*	55.0	72.2	61,500*	57,400*	46,500*	35,400*
55.0	69.6	62,100*	57,900*	55,100*	42,600*	60.0	69.0	54,800*	51,400*	48,200*	37,900*	60.0	70.3	54,600*	51,200*	45,500*	34,700*
60.0	67.4	55,100*	51,600*	49,300*	41,800*	65.0	66.9	49,100*	46,300*	43,800*	37,300*	65.0	68.4	48,900*	46,000*	43,200*	34,100*
65.0	65.1	49,300*	46,600*	44,700*	41,000*	70.0	64.8	44,500*	42,000*	40,300*	36,500*	70.0	66.5	44,000*	41,700*	39,400*	33,500*
70.0	62.8	44,700*	42,300*	40,700*	39,200*	75.0	62.6	40,300*	38,300*	37,000*	34,800*	75.0	64.5	40,100*	38,000*	35,900*	32,800*
75.0	60.5	40,700*	38,600*	37,200*	36,000*	80.0	60.4	37,000*	35,100*	33,900*	32,600*	80.0	62.5	36,500*	34,700*	32,900*	31,500*
80.0	58.1	37,200*	35,400*	34,100*	33,200*	85.0	58.2	33,900*	32,300*	31,300*	30,400*	85.0	60.4	33,500*	31,900*	30,400*	29,500*
85.0	55.6	34,100*	32,700*	31,700*	30,700*	90.0	55.9	31,300*	29,900*	29,100*	28,200*	90.0	58.3	30,800*	29,500*	28,600*	27,400*
90.0	53.1	31,700*	30,200*	29,300*	28,600*	95.0	53.6	29,100*	27,700*	26,800*	26,100*	95.0	56.2	28,600*	27,400*	26,600*	25,600*
95.0	50.5	29,300*	28,300*	27,600*	26,900*	100.0	51.1	26,800*	25,800*	25,100*	24,400*	100.0	54.0	26,600*	25,400*	24,600*	24,000*
100.0	47.7	27,300*	26,500*	25,700*	25,000*	105.0	48.6	25,100*	24,000*	23,300*	22,900*	105.0	51.7	24,600*	23,700*	23,100*	22,500*
105.0	44.9	25,300*	24,700*	24,100*	23,500*	110.0	46.0	23,300*	22,700*	22,200*	21,700*	110.0	49.4	23,100*	22,200*	21,600*	21,000*
110.0	41.8	23,800*	23,100*	22,500*	22,200*	115.0	43.2	22,000*	21,500*	20,900*	20,400*	115.0	47.0	21,600*	20,800*	20,200*	19,800*
115.0	38.6	22,200*	21,700*	21,200*	20,900*	120.0	40.3	20,700*	20,100*	19,600*	19,200*	120.0	44.4	20,200*	19,600*	19,100*	18,700*
120.0	35.2	20,900*	20,400*	20,000*	19,600*	125.0	37.2	19,400*	18,900*	18,500*	18,200*	125.0	41.8	18,900*	18,500*	18,000*	17,600*
125.0	31.4	19,600*	18,700*	18,200*	17,700*	130.0	33.9	18,200*	17,500*	17,100*	16,500*	130.0	39.0	17,800*	17,400*	16,900*	16,500*
						135.0	30.2	16,500*	15,800*	15,400*	15,000*	135.0	36.0	16,700*	16,300*	15,800*	15,600*
												140.0	32.8	15,600*	15,000*	14,600*	14,100*
Reeves		5	4	3	2	Reeves		4	3	2	2	Reeves		4	3	2	2

Refer to notes on page 34.

CK1600G-2

SPECIFICATIONS

Barge

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

170' Boom					180' Boom					190' Boom							
360° Rated Load (lbs)					360° Rated Load (lbs)					360° Rated Load (lbs)							
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
36.0	79.9	102,000 *				38.0	79.8	88,400 *				40.0	79.8	88,100 *			
38.0	79.2	95,600 *				40.0	79.2	88,400 *				45.0	78.2	76,400 *	58,900 *		
40.0	78.5	89,900 *	71,200 *			45.0	77.6	77,600 *	63,300 *	41,000 *		50.0	76.7	67,200 *	57,200 *	37,100 *	27,500 *
45.0	76.8	78,200 *	69,100 *	45,000 *	33,800 *	50.0	75.9	68,500 *	61,400 *	40,200 *	30,200 *	55.0	75.1	59,900 *	54,400 *	36,300 *	27,100 *
50.0	75.1	69,200 *	63,700 *	44,000 *	33,200 *	55.0	74.3	61,000 *	55,400 *	39,300 *	29,500 *	60.0	73.5	53,700 *	49,200 *	35,500 *	26,600 *
55.0	73.3	61,200	57,000	43,000 *	32,500 *	60.0	72.6	54,000	49,400	38,400 *	28,800 *	65.0	72.0	48,000	44,100	34,700 *	26,000 *
60.0	71.5	54,200	50,700	42,100 *	32,000 *	65.0	70.9	48,200	44,500	37,500 *	28,400 *	70.0	70.4	43,200	40,000	34,000 *	25,500 *
65.0	69.7	48,500	45,700	41,000 *	31,400 *	70.0	69.2	43,600	40,200	36,700 *	27,800 *	75.0	68.7	39,200	36,400	33,100 *	25,100 *
70.0	67.9	43,800	41,300	39,000	30,700 *	75.0	67.5	39,400	37,200	35,500	27,400 *	80.0	67.1	35,700	33,200	31,500	24,600 *
75.0	66.1	39,600	37,600	35,700	30,100 *	80.0	65.8	36,100	34,300	32,500	26,800 *	85.0	65.5	32,600	30,500	29,100	24,000 *
80.0	64.2	36,300	34,500	32,700	29,600 *	85.0	64.0	33,000	31,400	29,900	26,300 *	90.0	63.8	29,900	28,200	26,800	23,500 *
85.0	62.3	33,200	31,700	30,100	28,600 *	90.0	62.2	30,400	28,900	27,600	25,800 *	95.0	62.1	27,700	26,000	24,900	23,200 *
90.0	60.4	30,600	29,100	27,800	27,000	95.0	60.4	27,900	26,800	25,600	24,300 *	100.0	60.4	25,500	24,300	23,400	22,200 *
95.0	58.4	28,200	27,000	25,800	25,100	100.0	58.5	26,000	24,800	23,700	22,700	105.0	58.6	23,800	22,700	21,700	20,800
100.0	56.4	26,200	25,100	24,100	23,400	105.0	56.6	24,000	23,100	22,100	21,400	110.0	56.8	22,000	21,100	20,200	19,400
105.0	54.4	24,400	23,400	22,700	21,700	110.0	54.7	22,400	21,500	20,600	20,100	115.0	55.0	20,500	19,700	18,900	18,200
110.0	52.2	22,700	21,700	21,100	20,500	115.0	52.7	20,900	20,100	19,400	18,800	120.0	53.1	19,100	18,500	17,800	17,100
115.0	50.1	21,100	20,300	19,800	19,400	120.0	50.6	19,600	18,800	18,200	17,600	125.0	51.2	18,000	17,200	16,500	16,200
120.0	47.8	19,800	19,100	18,700	18,200	125.0	48.5	18,200	17,600	17,100	16,600	130.0	49.2	16,700	16,200	15,600	15,200
125.0	45.5	18,700	17,900	17,400	17,000	130.0	46.4	17,100	16,500	16,000	15,700	135.0	47.2	15,800	15,200	14,700	14,200
130.0	43.0	17,400	16,800	16,500	16,100	135.0	44.1	16,000	15,500	15,200	14,800	140.0	45.0	14,700	14,200	13,800	13,400
135.0	40.5	16,500	15,900	15,600	15,200	140.0	41.7	15,200	14,600	14,300	14,000 *	145.0	42.9	13,800	13,300	13,000	12,700 *
140.0	37.8	15,400	15,000	14,700	14,200 *	145.0	39.3	14,300	13,800 *	13,500 *	13,200 *	150.0	40.6	13,000	12,600 *	12,300 *	11,900 *
145.0	34.9	14,500	14,000 *	13,400 *	13,000 *	150.0	36.6	13,400 *	13,000 *	12,500 *	12,000 *	155.0	38.2	12,300 *	11,600 *	11,200 *	10,800 *
150.0	31.8	13,200 *	12,600 *	12,100 *	11,900 *	155.0	33.8	12,300 *	11,800 *	11,200 *	10,800 *	160.0	35.6	11,200 *	10,600 *	10,300 *	9,900 *
						160.0	30.8	11,000 *	10,400 *	9,900 *	9,700 *	165.0	32.9	10,100 *	9,700 *	9,200 *	8,800 *
												170.0	30.0	9,000 *	8,500 *	8,100 *	7,900 *
Reeves		4	3	2	2	Reeves		3	3	2	2	Reeves		3	2	2	2
200' Boom				210' Boom				220' Boom									
360° Rated Load (lbs)				360° Rated Load (lbs)				360° Rated Load (lbs)									
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
45.0	78.8	75,100 *	54,700 *			45.0	79.4	73,800 *				45.0	79.8	58,800 *			
50.0	77.3	66,100 *	53,200 *	34,000 *		50.0	78.0	65,000 *	49,200 *			50.0	78.5	58,800 *	44,600 *		
55.0	75.9	58,800 *	51,100 *	33,300 *	24,800 *	55.0	76.6	57,700 *	47,100 *	30,600 *	22,600 *	55.0	77.2	57,700 *	42,700 *	28,000 *	
60.0	74.4	52,900 *	48,200 *	32,800 *	24,300 *	60.0	75.1	51,800 *	45,100 *	30,000 *	22,100 *	60.0	75.8	51,800 *	40,900 *	27,300 *	19,800 *
65.0	72.9	47,600	43,900	32,100 *	23,700 *	65.0	73.7	46,900 *	42,900 *	29,300 *	21,700 *	65.0	74.5	46,700 *	39,100 *	26,700 *	19,400 *
70.0	71.4	42,900	39,600	31,400 *	23,200 *	70.0	72.3	42,500	39,100	28,700 *	21,200 *	70.0	73.1	42,300 *	37,300 *	26,100 *	19,000 *
75.0	69.9	38,800	35,900	30,800 *	22,800 *	75.0	70.9	38,300	35,500	28,000 *	20,800 *	75.0	71.8	38,300	35,200 *	25,600 *	18,700 *
80.0	68.3	35,200	32,900	30,100 *	22,400 *	80.0	69.4	34,800	32,500	27,500 *	20,400 *	80.0	70.4	34,800	32,300	24,800 *	18,300 *
85.0	66.8	32,400	30,200	28,700	22,000 *	85.0	67.9	31,900	29,800	26,800 *	19,900 *	85.0	69.0	31,700	29,600	23,900 *	18,000 *
90.0	65.2	29,700	27,800	26,500	21,600 *	90.0	66.5	29,300	27,300	25,700 *	19,500 *	90.0	67.6	29,100	27,300	23,000 *	17,700 *
95.0	63.6	27,300	25,700	24,500	21,100 *	95.0	64.9	26,800	25,300	24,100	19,100 *	95.0	66.2	26,800	25,100	22,100 *	17,300 *
100.0	62.0	25,300	23,700	22,700	20,900 *	100.0	63.4	24,900	23,300	22,300	18,900 *	100.0	64.7	24,600	23,200	21,200 *	16,800 *
105.0	60.3	23,300	22,100	21,200	20,200	105.0	61.9	22,900	21,600	20,700	18,500 *	105.0	63.3	22,900	21,500	20,200 *	16,400 *
110.0	58.7	21,800	20,500	19,700	18,900	110.0	60.3	21,300	20,100	19,300	17,800 *	110.0	61.8	21,100	19,900	19,000	15,700 *
115.0	57.0	20,200	19,200	18,500	17,800	115.0	58.7	19,800	18,700	17,900	17,100	115.0	60.3	19,600	18,500	17,700	15,100 *
120.0	55.2	18,700	18,000	17,400	16,700	120.0	57.1	18,500	17,400	16,700	16,000	120.0	58.8	18,200	17,200	16,500	14,500 *
125.0	53.5	17,600	16,900	16,300	15,600	125.0	55.5	17,100	16,300	15,600	14,900	125.0	57.2	16,900	16,000	15,400	13,800 *
130.0	51.6	16,500	15,800	15,200	14,500	130.0	53.8	16,000	15,200	14,600	14,000	130.0	55.7	15,800	14,900	14,400	13,400 *
135.0	49.8	15,400	14,700	14,100	13,700	135.0	52.1	14,900	14,200	13,700	13,100	135.0	54.1	14,700	14,000	13,500	12,700 *
140.0	47.9	14,300	13,800	13,300	13,000	140.0	50.3	13,800	13,300	12,800	12,400	140.0	52.4	13,800	13,100	12,600	12,100
145.0	45.9	13,400	13,000	12,600	12,200	145.0	48.5	13,000	12,600	12,100	11,600	145.0	50.8	13,000	12,300	11,800	11,300
150.0	43.8	12,700	12,200	11,900	11,500 *	150.0	46.6	12,300	11,800	11,200	10,800	150.0	49.1	12,100	11,500	11,000	10,500
155.0	41.7	11,900	11,500 *	11,200 *	10,800 *	155.0	44.7	11,400	10,900	10,400	10,100	155.0	47.3	11,200	10,700	10,200	9,800
160.0	39.5	11,200 *	10,700 *	10,300 *	9,900 *	160.0	42.7	10,500	10,100	9,800 *	9,500 *	160.0	45.5	10,300	9,900	9,500 *	9,100 *
165.0	37.1	10,300 *	9,700 *	9,200 *	8,900 *	165.0	40.6	9,900	9,500 *	9,200 *	8,700 *	165.0	43.6	9,700	9,300 *	8,800 *	8,400 *
170.0	34.7	9,200 *	8,800 *	8,500 *	8,100 *	170.0	38.5	9,200 *	8,500 *	8,100 *	7,800 *	170.0	41.7	9,000 *	8,500 *	8,000 *	7,600 *
175.0	32.0	8,300 *	7,900 *	7,400 *	7,000 *	175.0	36.2	8,100 *	7,600 *	7,200 *	6,900 *	175.0	39.7	8,100 *	7,600 *	7,200 *	6,800 *
						180.0	33.8	7,200 *	6,700 *	6,300 *	6,000 *	180.0	37.6	7,200 *	6,800 *	6,600 *	6,100 *
						185.0	31.2	6,300 *	5,900 *	5,600 *	5,300 *	185.0	35.3	6,600 *	6,000 *	5,700 *	5,300 *
												190.0	33.0	5,700 *	5,200 *	4,800 *	4,500 *
												195.0	30.5	4,800 *	4,400 *	4,100 *	
Reeves		3	2	2	2	Reeves		3	2	2	2	Reeves		2	2	2	2

Refer to notes on page 34.

CK1600G-2 SPECIFICATIONS

Barge

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

230' Boom						240' Boom						250' Boom					
360° Rated Load (lbs)						360° Rated Load (lbs)						360° Rated Load (lbs)					
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
50.0	79.0	58,800 *				50.0	79.5	54,400 *				50.0	79.9	50,200 *			
55.0	77.7	55,700 *	39,200 *	25,600 *		55.0	78.3	51,300 *	36,100 *			55.0	78.7	47,300 *	33,200 *		
60.0	76.5	50,700 *	37,400 *	25,100 *	18,100 *	60.0	77.0	48,200 *	34,300 *	22,800 *		60.0	77.6	44,500 *	31,700 *	21,000 *	
65.0	75.2	45,800 *	36,000 *	24,600 *	17,700 *	65.0	75.8	44,700 *	32,800 *	22,300 *	15,800 *	65.0	76.4	42,100 *	30,200 *	20,500 *	14,400 *
70.0	73.9	41,400 *	34,400 *	24,000 *	17,400 *	70.0	74.6	40,500 *	31,300 *	21,900 *	15,500 *	70.0	75.2	39,600 *	28,600 *	19,900 *	14,000 *
75.0	72.6	37,900 *	32,900 *	23,500 *	17,000 *	75.0	73.3	37,000 *	29,700 *	21,200 *	15,100 *	75.0	74.0	36,100 *	27,300 *	19,400 *	13,700 *
80.0	71.3	34,600	31,300 *	22,800 *	16,600 *	80.0	72.1	33,700 *	28,200 *	20,400 *	14,800 *	80.0	72.8	33,000 *	25,700 *	18,600 *	13,400 *
85.0	69.9	31,500	29,300 *	21,900 *	16,300 *	85.0	70.8	31,000 *	26,800 *	19,500 *	14,500 *	85.0	71.6	30,200 *	24,600 *	17,800 *	13,000 *
90.0	68.6	28,800	26,900	21,000 *	16,000 *	90.0	69.5	28,400	25,500 *	18,800 *	14,200 *	90.0	70.4	27,900 *	23,300 *	16,900 *	12,700 *
95.0	67.3	26,400	24,800	20,100 *	15,600 *	95.0	68.3	26,000	24,200 *	18,100 *	13,900 *	95.0	69.2	25,700 *	22,000 *	16,200 *	12,300 *
100.0	65.9	24,400	22,800	19,300 *	15,100 *	100.0	67.0	24,000	22,400	17,300 *	13,400 *	100.0	67.9	23,500	20,900 *	15,300 *	11,800 *
105.0	64.5	22,400	21,200	18,400 *	14,600 *	105.0	65.7	22,000	20,800	16,400 *	12,900 *	105.0	66.7	21,800	19,800 *	14,600 *	11,200 *
110.0	63.1	20,900	19,700	17,600 *	14,100 *	110.0	64.3	20,500	19,200	15,600 *	12,300 *	110.0	65.4	20,000	18,500	13,800 *	10,800 *
115.0	61.7	19,400	18,100	16,800 *	13,500 *	115.0	63.0	18,900	17,900	14,900 *	11,700 *	115.0	64.2	18,500	17,100	13,200 *	10,300 *
120.0	60.3	17,800	16,900	15,800 *	12,800 *	120.0	61.7	17,600	16,500	14,100 *	11,200 *	120.0	62.9	17,100	16,000	12,600 *	9,700 *
125.0	58.8	16,700	15,600	14,900	12,200 *	125.0	60.3	16,300	15,400	13,400 *	10,600 *	125.0	61.6	15,800	14,900	11,900 *	9,200 *
130.0	57.4	15,400	14,700	14,100	11,700 *	130.0	58.9	15,200	14,300	12,600 *	10,000 *	130.0	60.3	14,700	13,800	11,200 *	8,600 *
135.0	55.9	14,500	13,600	13,000	11,200 *	135.0	57.5	14,100	13,200	11,900 *	9,500 *	135.0	58.9	13,600	12,700	10,400 *	8,100 *
140.0	54.3	13,400	12,700	12,200	10,500 *	140.0	56.0	13,000	12,300	11,300 *	8,900 *	140.0	57.6	12,500	11,800	9,800 *	7,500 *
145.0	52.8	12,500	11,800	11,300	10,100 *	145.0	54.6	12,100	11,200	10,700	8,400 *	145.0	56.2	11,600	10,900	9,300 *	7,100 *
150.0	51.2	11,600	10,900	10,400	9,400 *	150.0	53.1	11,000	10,400	10,000	7,800 *	150.0	54.8	10,800	10,000	8,600 *	6,700 *
155.0	49.6	10,800	10,000	9,600	9,000 *	155.0	51.6	10,300	9,600	9,200	7,400 *	155.0	53.4	9,900	9,200	8,000 *	6,000 *
160.0	47.9	9,900	9,300	9,000	8,400 *	160.0	50.0	9,400	8,900	8,400	6,800 *	160.0	51.9	9,000	8,500	7,400 *	5,600 *
165.0	46.2	9,200	8,800	8,400 *	7,800 *	165.0	48.5	8,800	8,100	7,600	6,300 *	165.0	50.5	8,300	7,600	6,800 *	5,200 *
170.0	44.4	8,500	8,200 *	7,700 *	7,100 *	170.0	46.8	7,900	7,400	7,000 *	5,900 *	170.0	49.0	7,400	6,900	6,300 *	4,800 *
175.0	42.6	7,900 *	7,400 *	6,900 *	6,600 *	175.0	45.2	7,200	6,900 *	6,600 *	5,400 *	175.0	47.4	6,800	6,400 *	5,700 *	4,100 *
180.0	40.7	7,000 *	6,600 *	6,200 *	5,900 *	180.0	43.4	6,800 *	6,300 *	5,900 *	4,900 *	180.0	45.8	6,300 *	5,800 *	5,200 *	
185.0	38.7	6,300 *	5,900 *	5,500 *	5,200 *	185.0	41.7	6,100 *	5,600 *	5,100 *	4,400 *	185.0	44.2	5,700 *	5,200 *	4,600 *	
190.0	36.7	5,700 *	5,200 *	4,800 *	4,500 *	190.0	39.8	5,200 *	4,800 *	4,400 *		190.0	42.5	5,000 *	4,600 *	4,100 *	
195.0	34.5	4,800 *	4,400 *			195.0	37.9	4,600 *	4,200 *			195.0	40.8	4,400 *	4,000 *		
200.0	32.2	4,100 *															
Reeves		2	2	2	2	Reeves		2	2	2	2	Reeves		2	2	2	2

CK1600G-2

Luffing Boom/Jib - SPECIFICATIONS

General Description

<i>Luffing boom maximum lift capacity</i>	170,000 lbs (77,111 kg) @ 26' operating radius
<i>Luffing jib maximum lift capacity</i>	79,000 lbs (35,800 kg) @ 40' operating radius
<i>Maximum luffing boom length</i>	157' (47.9 m)
<i>Maximum luffing jib length</i>	175' (53.3 m)
<i>Working weight</i>	Approx. 341,940 lbs (155,100 kg)
<i>Ground bearing pressure</i>	Approx. 13.1 psi (90.5 kPa)

Calculations to determine working weight, ground bearing pressure, and gradeability include the weight of the upper and lower works of the crane, counterweights, and carbody weights, 107' boom + 75' jib, and hook block.

Luffing Attachments

Luffing boom:

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

<i>Basic boom length</i>	107' (32.7 m)
<i>Boom tip section (with pin connected boom point sheave)</i>	10' 6" (3.2 m)
<i>Boom insert section</i>	10' (3.1 m), 20' (6.1 m) 30' (9.1 m), 40' (12.2 m)
<i>Boom base section</i>	25' (7.6 m)
<i>Maximum boom length</i>	157' (47.9 m)

Luffing boom insert (optional):

Optional boom inserts are available to provide extension capabilities. They are robotic welded, laser aligned, lattice constructed with tubular, high-tension steel chords and pin connections.

<i>Boom insert</i>	10' (3.1 m), 20' (6.1 m), 40' (12.2 m)
--------------------	--

Luffing jib (optional):

Luffing jib inserts are available to provide extension capabilities. The optional luffing jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections.

<i>Basic luffing jib length</i>	75' (22.9 m)
<i>Luffing jib insert</i>	14' (4.3 m), 20' (6.1 m)
<i>Jib tip section</i>	22' 8" (6.9 m)
<i>Jib base section</i>	21' (6.4 m)
<i>No. of point sheaves</i>	2
<i>Maximum luffing jib length</i>	175' (53.3 m)
<i>Insert luffing jib length</i>	10' (3.1 m), 20' (6.10 m) 40' (12.2 m)

Working Speed

<i>Hoist line speed (front and rear drums)</i>	394 ~ 10 ft/min (120 ~ 3 m/min)
<i>Lowering line speed (front and rear drums)</i>	394 ~ 10 ft/min (120 ~ 3 m/min)
<i>Boom hoist line speed (front and rear drums)</i>	157 ~ 6.6 ft/min (48 ~ 2 m/min)
<i>Boom lowering line speed (front and rear drums)</i>	157 ~ 6.6 ft/min (48 ~ 2 m/min)
<i>Swing speed (max.)</i>	2.1 rpm (2.1 min-1)
<i>Travel speed (high/low)</i>	0.81/0.56 mph (1.3/0.9 km/h)

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

Auxiliary sheave:

One (1) sheave with rollers is required during erection of luffing jib.

Diameter of wire rope:

<i>Hoist rope</i>	26 mm
<i>Luffing jib rope (8 part)</i>	26 mm
<i>Boom hoist rope (12 parts)</i>	20 mm
<i>Boom suspension rope</i>	30 mm
<i>Luffing jib suspension rope</i>	30 mm
<i>Strut suspension rope</i>	30 mm

Luffing boom hoist reeving:

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

Luffing jib hoist reeving:

Eight (8) parts of 26 mm dia. high strength wire rope.

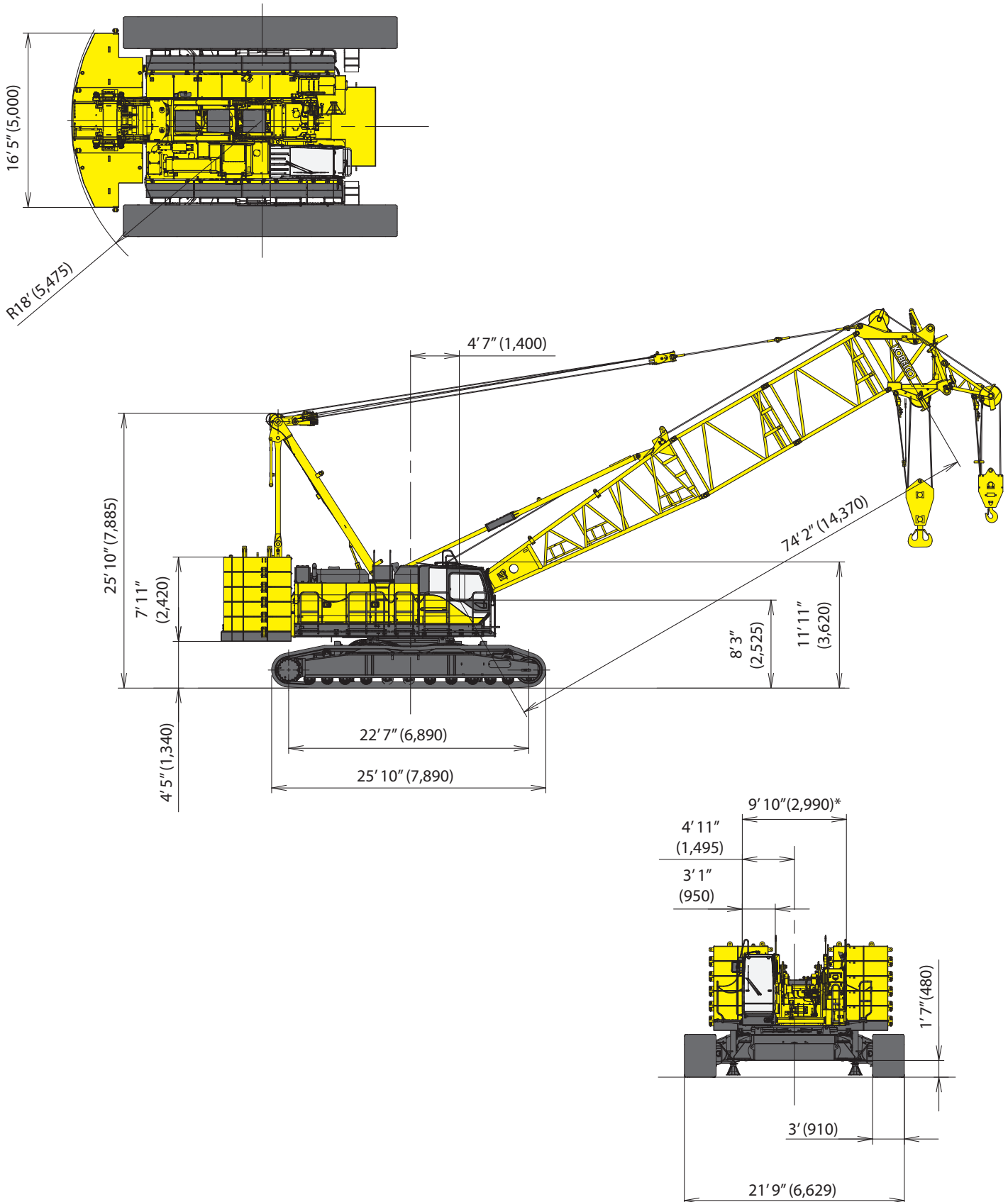
Luffing jib hoist drum:

<i>Hoist drum</i>	(3rd drum on straight crane) Powered by hydraulic motor through planetary reducer.
<i>Drum</i>	Single drum grooved for 26 mm dia. wire rope.
<i>Brake</i>	A spring set, hydraulically released multiple-disc brake is internally configured in the hoist motor and is operated through a counter-balance valve. External ratchet for locking drum.

CK1600G-2

Luffing Boom/Jib - SPECIFICATIONS

General Dimensions - Luffing Boom

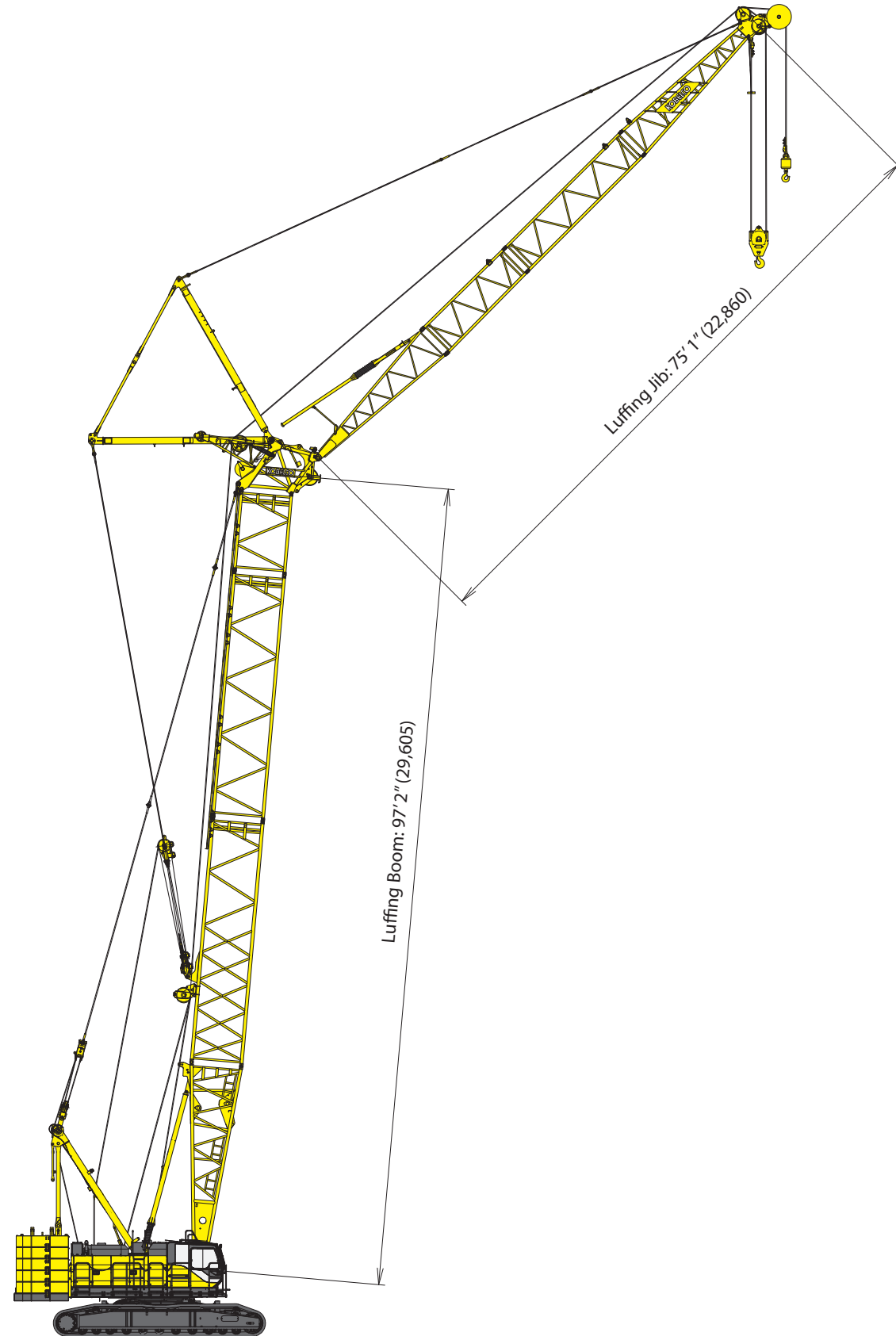


* - 10'5" wide with Catwalks on cab side only.
11' wide with Catwalks on both sides.

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Luffing Boom/Jib - SPECIFICATIONS

General Dimensions - Luffing Jib



CK1600G-2

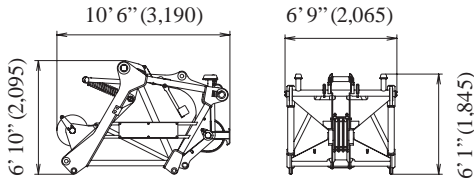
Luffing Boom/Jib - SPECIFICATIONS

Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

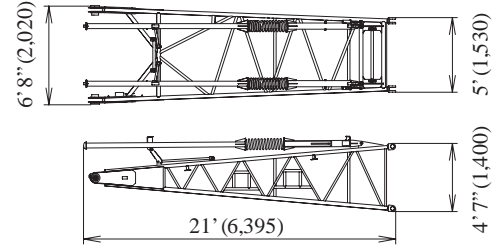
Upper Luffing Boom

Weight: 5,435 lbs (2,465 kg)



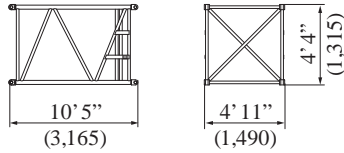
Luffing Boom Base

Weight: 2,650 lbs (1,200 kg)



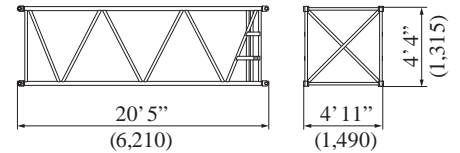
10 ft (3.0 m) Luffing Boom

Weight: 685 lbs (310 kg)



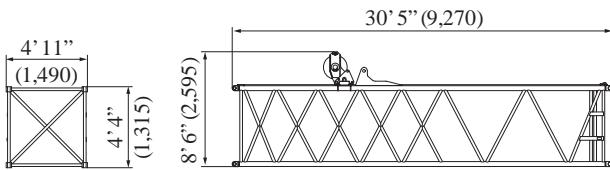
20 ft (6.1 m) Luffing Boom

Weight: 2,120 lbs (960 kg)



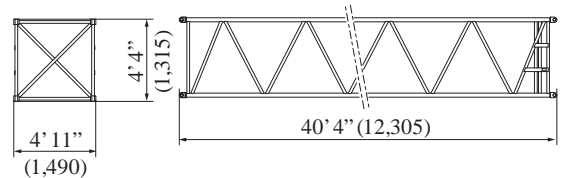
30 ft (6.1 m) Special Boom for Tower

Weight: 4,480 lbs (2,030 kg)



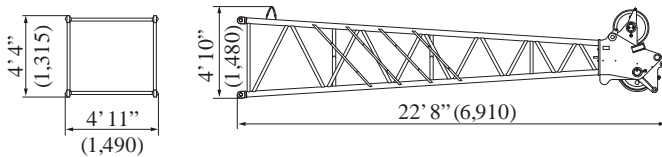
40 ft (12.2 m) Luffing Boom

Weight: 2,120 lbs (960 kg)



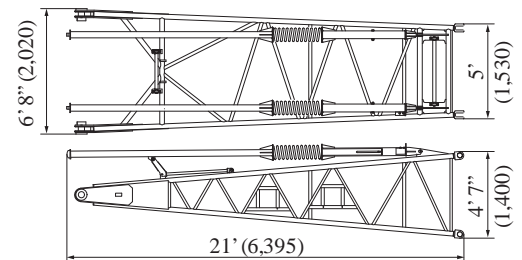
Luffing Boom Tip

Weight: 2,580 lbs (1,170 kg)



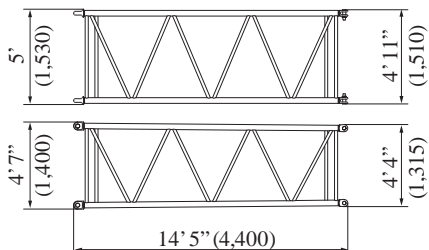
Luffing Base

Weight: 2,650 lbs (1,200 kg)



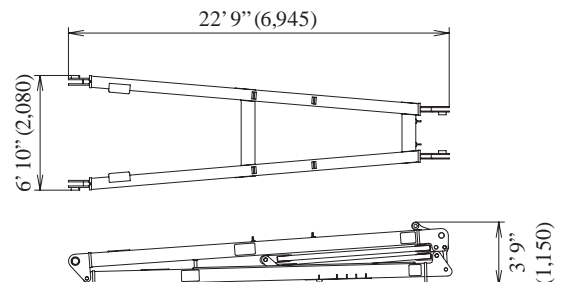
14' Luffing Taper Boom

Weight: 905 lbs (410 kg)



Luffing Strut

Weight: 4,435 lbs (2,010 kg)



CK1600G-2

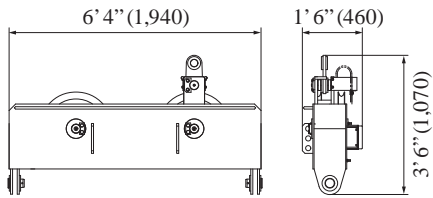
Luffing Boom/Jib - SPECIFICATIONS

Dimensions and Weight

Dimensions: ft-in (mm) Weight: lbs (kg)

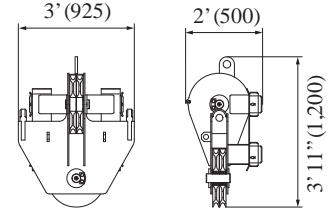
Luffing Jib Lower Spreader (rear strut)

Weight: 895 lbs (405 kg)



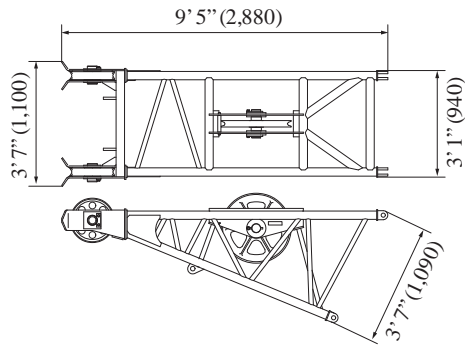
Luffing Jib Upper Spreader (front strut)

Weight: 575 lbs (260 kg)



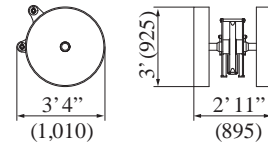
Luffing Jib Rear Guide Roller

Weight: 940 lbs (425 kg)



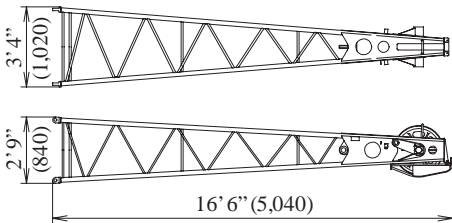
Luffing Jib Auxiliary Sheave

Weight: 840 lbs (380 kg)



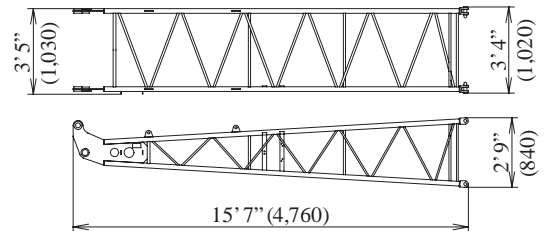
Fixed Jib Tip

Weight: 695 lbs (315 kg)



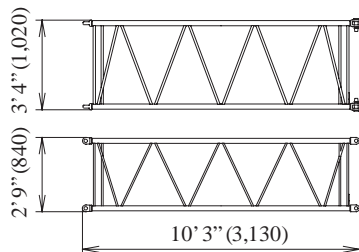
Fixed Jib Base

Weight: 465 lbs (210 kg)



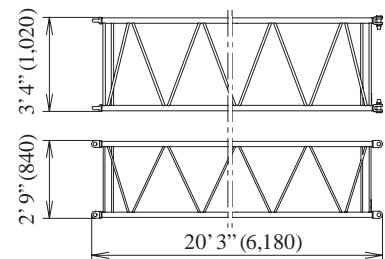
10 ft (3.0 m) Fixed Jib

Weight: 245 lbs (110 kg)



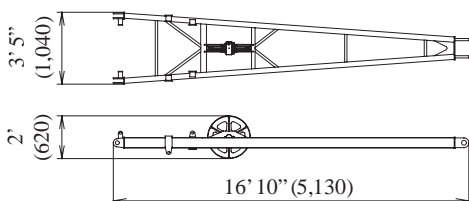
20 ft (6.1 m) Fixed Jib

Weight: 420 lbs (190 kg)



Fixed Jib Strut

Weight: 665 lbs (300 kg)



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Luffing Boom/Jib - SPECIFICATIONS

Luffing Boom/Jib Arrangement

Luffing Boom Arrangement for Crane

Boom length ft (m)	Boom arrangement
47 (14.4)	
57 (17.4)	※
67 (20.5)	※
77 (23.5)	※
87 (26.6)	※
97 (29.6)	※
107 (32.7)	※
117 (35.7)	※

Boom length ft (m)	Boom arrangement
127 (38.8)	※
137 (41.8)	※
147 (44.8)	※
157 (47.9)	※

Symbol	Boom Length	Remarks
	25.0 ft (7.6 m)	Boom Base
	2.0 ft (0.7 m)	Luffing Boom Top
	10.0 ft (3.1 m)	Insert Boom
	20.0 ft (6.1 m)	Insert Boom
	40.0 ft (12.2 m)	Insert Boom
	30.0 ft (9.1 m)	Insert Boom

※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

Luffing Boom Arrangement for Luffing

Boom length ft (m)	Boom arrangement
107 (32.7)	※
117 (35.7)	※
127 (38.8)	※
137 (41.8)	※
147 (44.8)	※
157 (47.9)	※

Symbol	Boom Length	Remarks
	25.0 ft (7.6 m)	Boom Base
	2.0 ft (0.7 m)	Luffing Boom Top
	10.0 ft (3.1 m)	Insert Boom
	20.0 ft (6.1 m)	Insert Boom
	40.0 ft (12.2 m)	Insert Boom
	30.0 ft (9.1 m)	Insert Boom for Luffing

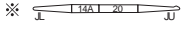
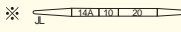

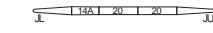
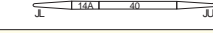
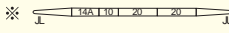
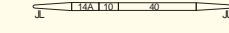

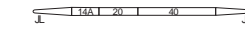
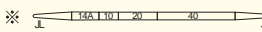
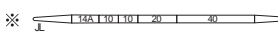
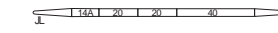
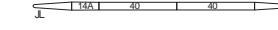
※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

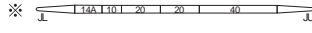
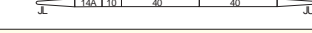
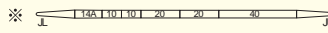
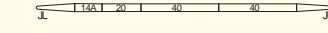
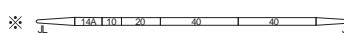
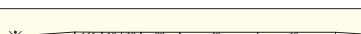
CK1600G-2



Luffing Boom/Jib - SPECIFICATIONS

Luffing Boom/Jib Arrangement

Luffing Jib Arrangement

Jib length ft (m)	Jib arrangement
75 (22.9)	※ 
85 (25.9)	※ 
95 (29.0)	※   
105 (32.0)	※  
115 (35.1)	※  
125 (38.1)	※ 
135 (41.1)	※   

Jib length ft (m)	Jib arrangement
145 (44.2)	※  
155 (47.2)	※  
165 (50.3)	※ 
175 (53.3)	※ 

Symbol	Jib Length	Remarks
	20.0 ft (6.1 m)	Jib Base
	14.0 ft (4.3 m)	Tapered Insert Jib
	10.0 ft (3.1 m)	Luffing Insert Jib
	20.0 ft (6.1 m)	Luffing Insert Jib
	40.0 ft (12.2 m)	Luffing Insert Jib
	21.0 ft (6.4 m)	Jib Top

※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.

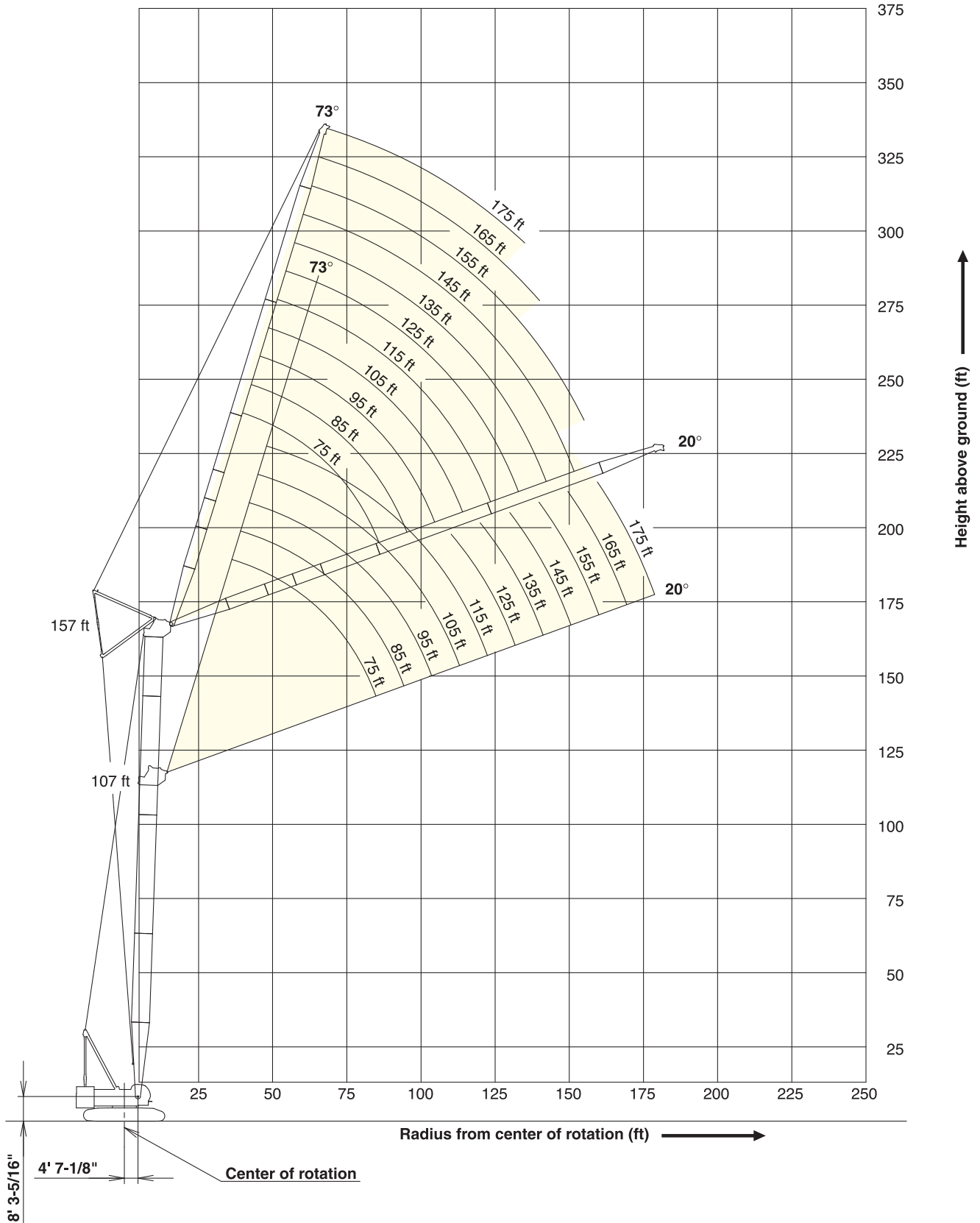
CK1600G-2

Luffing Boom/Jib - SPECIFICATIONS

Working Ranges

Luffing Jib 88°

Unit : ft (m)



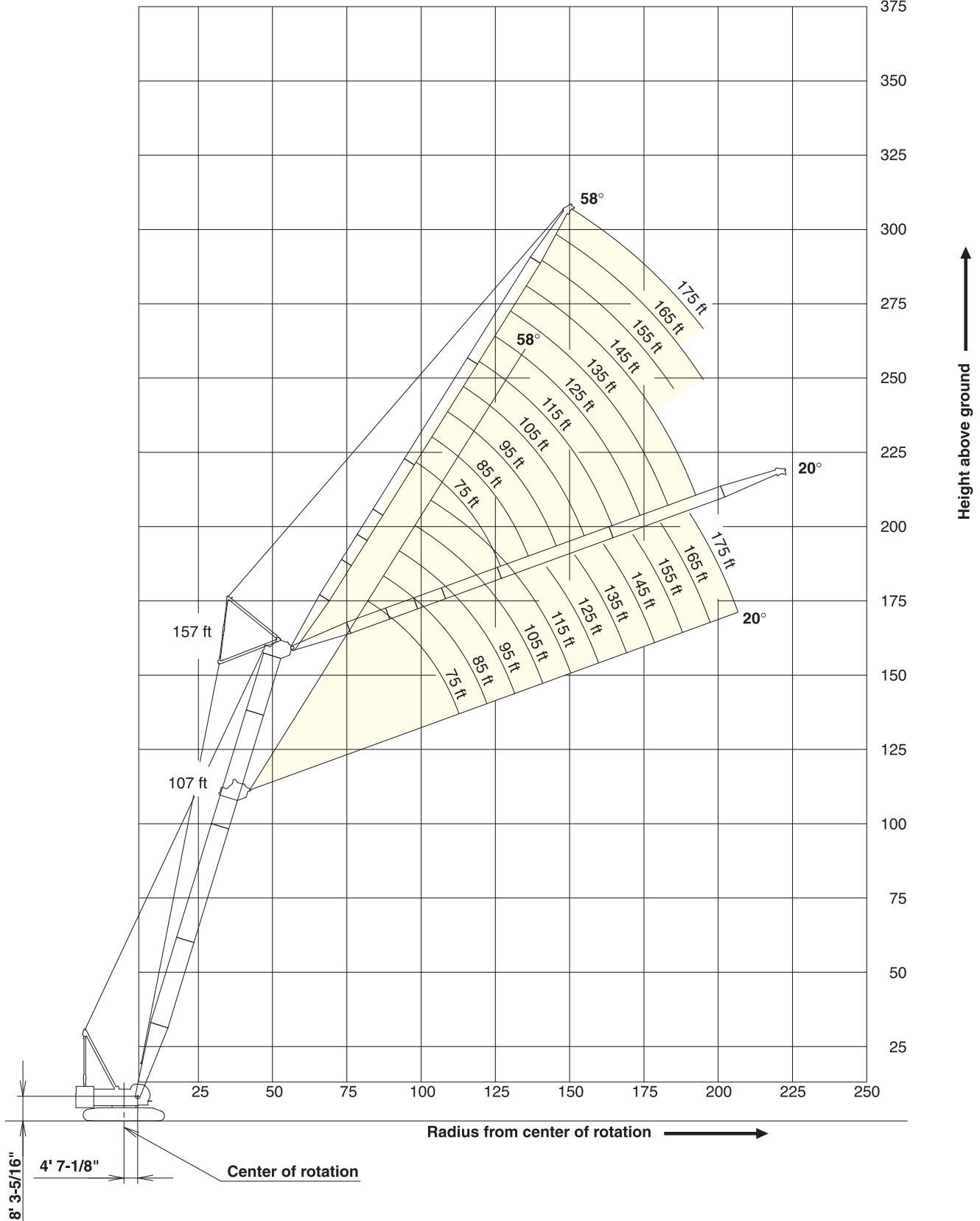
CK1600G-2

Luffing Boom/Jib - SPECIFICATIONS

Working Ranges

Luffing Jib 73°

Unit : ft (m)



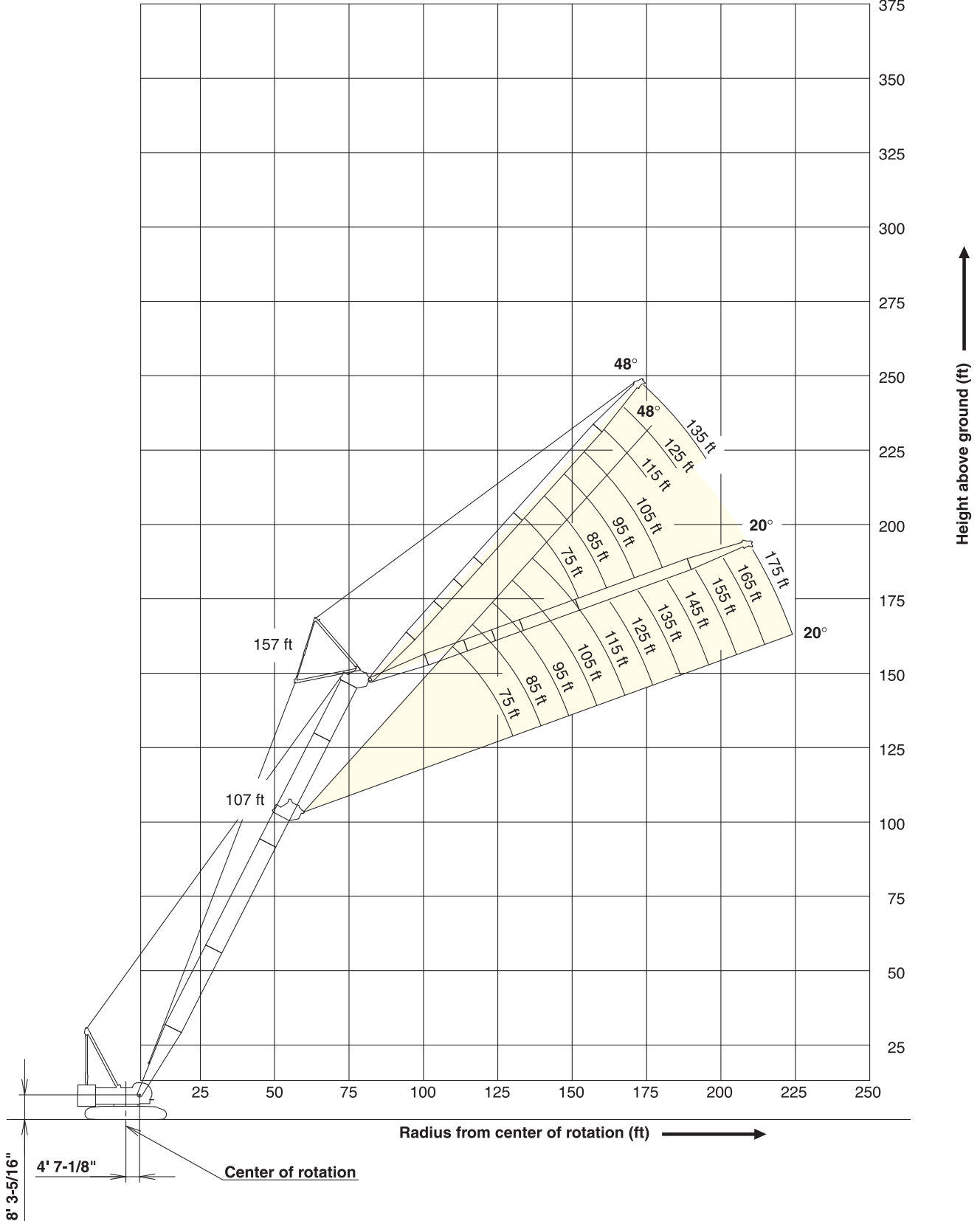
CK1600G-2

Luffing Boom/Jib - SPECIFICATIONS

Working Ranges

Luffing Jib 63°

Unit : ft (m)



Supplemental Data - Luffing Boom

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.
 - The crane must be leveled to within 1% on a firm supporting surface.
 - Boom backstops are required for all boom length.
 - 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. The total load that can be lifted by the auxiliary sheave is the value for 1,250 lbs deducted from rated load for the boom (without auxiliary sheave installed); however, the auxiliary sheave rated load should not exceed 59,000 lbs.
8. Least stable position is over the side.

9. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum 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
Maximum Loads (lbs)	170,000

Maximum Load Auxiliary Sheave

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

10. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
11. Designed and rated to comply with ANSI Code B30.5.

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Luffing Boom/Jib - SPECIFICATIONS

Supplemental Data - Luffing Jib

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.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - The crane must be leveled to within 1% on a firm supporting surface.
4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine 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. The total load that can be lifted over jib is limited by rated jib loads.
8. The total load that can be lifted over an auxiliary sheave should not exceed 29,500 lbs.
9. The boom should be erected over the front of the crawlers, not laterally. When erecting and lowering for all boom and jib combinations, the blocks for erection must be placed at the end of the crawlers.
10. Least stable position is over the side.
11. The boom should be erected over the front of the crawlers, not laterally. The blocks for erection must be placed at the end of the crawlers when erecting and lowering the boom.
 - In the case of nine counterweight, the boom length are 127 ft or over.
 - In the case of eleven counterweight and two carbody weights, the boom length are 147 ft or over.

12. Maximum number of reeving parts of line for hoist rope

• Luffing Jib

		Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
Boom Length (ft)	107	3	3	3	3	2	2	2	2	2	2	2
	117	3	3	3	2	2	2	2	2	2	2	2
	127	3	3	3	2	2	2	2	2	2	2	2
	137	3	3	2	2	2	2	2	2	2	2	2
	147	3	2	2	2	2	2	2	2	2	2	2
	157	3	2	2	2	2	2	2	2	2	2	2

• Crane Boom with Luffing Jib attached (11 counterweights + 2 carbody weights)

		Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
Boom Length (ft)	107	4	4	4	4	4	4	3	3	3	3	3
	117	4	4	4	4	4	4	3	3	3	3	3
	127	4	4	4	3	3	3	3	3	3	3	3
	137	3	3	3	3	3	3	3	3	3	2	2
	147	3	3	3	3	3	3	3	2	2	2	2
	157	3	3	3	3	3	3	2	2	2	2	2

13. Maximum hoist load for number of reeving parts of line for hoist rope.

Main Hoist Loads

No. of Parts of line	1	2	3	4
Maximum Loads (lbs)	29,500	59,000	88,500	118,000

Jib Hoist Loads

No. of Parts of line	1	2	3
Maximum Loads (lbs)	29,500	59,000	79,000

Auxilliary Hoist Loads

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

14. The total load that can be lifted over a luffing jib with main hook block is the value for 4,000 lbs deducted from rated load for the luffing jib without main hook block.
15. Lifting capacities listed apply only to the machine as originally manufactured and designed by KOBELCO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.

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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Luffing Boom/Jib - SPECIFICATIONS

Luffing Boom Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

47' Boom			57' Boom			67' Boom			77' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
18.0	79.7	170,000 *	20.0	79.5	170,000 *	22.0	79.3	170,000 *	24.0	79.2	170,000 *
19.0	78.5	170,000 *	22.0	77.4	170,000 *	24.0	77.6	170,000 *	26.0	77.7	170,000 *
20.0	77.2	170,000 *	24.0	75.3	170,000 *	26.0	75.8	170,000 *	28.0	76.1	156,900 *
22.0	74.6	170,000 *	26.0	73.2	170,000 *	28.0	74.0	160,400 *	30.0	74.6	144,600 *
24.0	72.0	170,000 *	28.0	71.0	165,100 *	30.0	72.2	146,600	32.0	73.0	132,900
26.0	69.3	170,000 *	30.0	68.8	148,800	32.0	70.3	132,900	34.0	71.4	121,600
28.0	66.6	162,900 *	32.0	66.5	135,100	34.0	68.4	121,600	36.0	69.8	111,900
30.0	63.8	147,200	34.0	64.2	123,800	36.0	66.5	111,900	38.0	68.2	103,600
32.0	60.8	133,800	36.0	61.9	114,100	38.0	64.6	103,800	40.0	66.5	96,300
34.0	57.8	122,500	38.0	59.5	106,000	40.0	62.6	96,500	45.0	62.3	81,700
36.0	54.7	112,800	40.0	57.0	98,700	45.0	57.4	82,000	50.0	57.8	70,900
38.0	51.4	103,800 *	45.0	50.3	84,200	50.0	51.9	70,900	55.0	53.1	62,300
40.0	47.8	95,200 *	50.0	42.7	72,900 *	55.0	45.9	62,600	60.0	48.0	55,500
45.0	37.7	75,800 *	55.0	33.6	60,100 *	60.0	38.9	55,500 *	65.0	42.4	49,800
						65.0	30.5	46,200 *	70.0	36.0	44,900 *
Reeves		6	Reeves		6	Reeves		6	Reeves		6
87' Boom			97' Boom			107' Boom			117' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
26.0	79.1	167,700 *	28.0	79.1	149,600 *	30.0	79.0	135,800 *	30.0	80.0	133,100 *
28.0	77.8	153,400 *	30.0	77.9	138,000 *	32.0	77.9	125,600 *	32.0	79.0	123,400 *
30.0	76.4	141,300 *	32.0	76.6	127,800 *	34.0	76.8	117,000 *	34.0	78.0	114,800 *
32.0	75.0	131,100 *	34.0	75.4	119,200 *	36.0	75.7	109,500 *	36.0	76.9	107,300 *
34.0	73.7	121,400	36.0	74.2	111,300	38.0	74.6	102,500	38.0	75.9	100,900 *
36.0	72.3	111,700	38.0	72.9	102,900	40.0	73.4	95,200	40.0	74.9	95,000 *
38.0	70.8	103,300	40.0	71.6	95,600	45.0	70.6	80,600	45.0	72.3	80,400
40.0	69.4	96,300	45.0	68.5	81,100	50.0	67.7	69,600	50.0	69.7	69,400
45.0	65.8	81,700	50.0	65.2	70,100	55.0	64.7	61,000	55.0	67.0	60,800
50.0	62.0	70,700	55.0	61.8	61,500	60.0	61.6	54,200	60.0	64.3	54,000
55.0	58.1	62,100	60.0	58.3	54,600	65.0	58.4	48,500	65.0	61.5	48,200
60.0	53.9	55,300	65.0	54.6	48,900	70.0	55.1	43,800	70.0	58.6	43,600
65.0	49.5	49,600	70.0	50.7	44,300	75.0	51.7	39,600	75.0	55.6	39,400
70.0	44.8	44,900	75.0	46.6	40,300	80.0	48.0	36,300	80.0	52.5	36,100
75.0	39.6	41,000	80.0	42.2	36,800	85.0	44.2	33,200	85.0	49.2	33,000
80.0	33.6	37,200 *	85.0	37.2	33,900	90.0	39.9	30,800	90.0	45.7	30,600
			90.0	31.6	30,600 *	95.0	35.3	28,400	95.0	42.0	28,200
									100.0	38.0	26,200
									105.0	33.6	24,400 *
Reeves		6	Reeves		6	Reeves		5	Reeves		5

Refer to notes on page 49-50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Boom Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

127' Boom			137' Boom			147' Boom			157' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
32.0	79.9	120,800 *	34.0	79.7	110,600 *	36.0	79.7	102,500 *	38.0	79.6	94,700 *
34.0	78.9	112,400 *	36.0	78.9	103,300 *	38.0	78.9	96,100 *	40.0	78.8	89,000 *
36.0	78.0	105,100 *	38.0	78.0	97,000 *	40.0	78.1	90,300 *	45.0	77.0	77,300 *
38.0	77.1	98,700 *	40.0	77.2	91,200 *	45.0	76.0	78,700 *	50.0	75.1	68,300 *
40.0	76.1	93,000 *	45.0	75.0	79,500 *	50.0	74.0	68,700	55.0	73.2	59,700
45.0	73.8	80,000	50.0	72.8	68,700	55.0	72.0	60,100	60.0	71.2	52,900
50.0	71.4	69,000	55.0	70.6	60,100	60.0	69.9	53,100	65.0	69.3	47,100
55.0	69.0	60,400	60.0	68.3	53,100	65.0	67.8	47,300	70.0	67.3	42,300
60.0	66.5	53,300	65.0	66.0	47,600	70.0	65.6	42,700	75.0	65.2	38,300
65.0	63.9	47,800	70.0	63.7	42,700	75.0	63.4	38,500	80.0	63.2	34,800
70.0	61.4	42,900	75.0	61.3	38,800	80.0	61.2	35,200	85.0	61.1	31,900
75.0	58.7	39,000	80.0	58.8	35,200	85.0	58.9	32,100	90.0	58.9	29,300
80.0	55.9	35,400	85.0	56.3	32,400	90.0	56.5	29,500	95.0	56.8	26,800
85.0	53.1	32,600	90.0	53.6	29,700	95.0	54.1	27,300	100.0	54.5	24,900
90.0	50.1	29,900	95.0	50.9	27,300	100.0	51.6	25,100	105.0	52.2	23,100
95.0	47.0	27,500	100.0	48.1	25,300	105.0	49.0	23,300	110.0	49.8	21,300
100.0	43.7	25,500	105.0	45.1	23,500	110.0	46.3	21,600	115.0	47.2	19,800
105.0	40.2	23,800	110.0	41.9	21,800	115.0	43.4	20,200	120.0	44.6	18,500
110.0	36.4	22,000	115.0	38.6	20,500	120.0	40.4	18,900	125.0	41.9	17,400
115.0	32.1	20,200 *	120.0	34.9	18,900	125.0	37.1	17,600	130.0	38.9	16,000
			125.0	30.8	16,900 *	130.0	33.6	16,000 *	135.0	35.8	15,200 *
									140.0	32.4	13,400 *
Reeves		5	Reeves		4	Reeves		4	Reeves		4

Refer to notes on page 49-50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Boom with Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

107' Boom												
Load Radius (ft)	Boom Angle (deg.)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
30.0	79.0	109,100*	105,800*	102,000*	98,800*	95,500*	91,100*	87,400*	83,700*	78,900*	74,700*	70,400*
32.0	77.9	99,700*	96,300*	92,800*	89,600*	86,500*	82,400*	78,800*	75,100*	70,600*	66,500*	62,300*
34.0	76.8	91,500	88,300	84,800	81,800	78,800	74,900	71,400	67,800	63,400	59,500	55,400
36.0	75.7	84,300	81,200	77,800	74,900	71,900	68,200	64,700	61,300	57,100	53,400	49,400
38.0	74.6	77,000	74,100	70,700	68,000	65,100	61,400	58,100	54,900	50,800	47,200	43,300
40.0	73.4	70,300	67,400	64,200	61,500	58,700	55,200	51,900	48,800	44,900	41,400	37,700
45.0	70.6	56,500	53,700	50,700	48,100	45,400	42,100	39,100	36,200	32,500	29,100	25,800
50.0	67.7	46,000	43,300	40,600	38,100	35,600	32,400	29,700	26,800	23,200	20,100	17,000
55.0	64.7	37,600	35,000	32,300	30,000	27,600	24,600	22,000	19,200	15,800		
60.0	61.6	30,700	28,300	25,600	23,400	21,000	18,200					
65.0	58.4	25,300	22,900	20,400	18,200	16,000	13,100					
70.0	55.1	21,000	18,500	16,100	14,100							
75.0	51.7	17,200	14,900									
80.0	48.0	14,000										
85.0	44.2	11,100										
Reeves		4	4	4	4	4	4	3	3	3	3	3

117' Boom												
Load Radius (ft)	Boom Angle (deg.)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
30.0	80.0	106,200*	102,700*	99,200*	95,900*	92,600*	88,600*	84,900*	81,200*	76,500*	72,400*	68,000*
32.0	79.0	97,300*	93,900*	90,400*	87,400*	84,200*	80,300*	76,700*	73,100*	68,600*	64,800*	60,500*
34.0	78.0	89,600*	86,400*	83,000*	80,100*	77,100*	73,200*	69,800*	66,300*	62,000*	58,300*	54,200*
36.0	76.9	82,900*	79,800*	76,500*	73,800*	70,800*	67,000*	63,700*	60,400*	56,200*	52,600*	48,700*
38.0	75.9	76,200*	73,200*	70,100*	67,400*	64,500*	60,800*	57,700*	54,500*	50,400*	46,900*	43,200*
40.0	74.9	69,900	67,000	64,000	61,400	58,500	55,000	52,000	48,900	44,900	41,500	38,000
45.0	72.3	56,500	53,600	50,700	48,200	45,600	42,400	39,500	36,600	32,800	29,700	26,400
50.0	69.7	46,000	43,400	40,600	38,300	35,800	32,700	30,000	27,200	23,800	20,700	17,500
55.0	67.0	37,600	35,100	32,300	30,200	27,800	24,800	22,200	19,600	16,400		
60.0	64.3	30,700	28,300	25,600	23,700	21,300	18,400					
65.0	61.5	25,300	22,900	20,400	18,400	16,200	13,600					
70.0	58.6	20,800	18,500	16,100	14,100							
75.0	55.6	17,100	14,900									
80.0	52.5	14,000										
85.0	49.2	11,100										
Reeves		4	4	4	4	4	4	3	3	3	3	3

127' Boom												
Load Radius (ft)	Boom Angle (deg.)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
32.0	79.9	95,400*	92,100*	88,600*	85,500*	82,500*	78,500*	75,200*	71,500*	67,300*	63,400*	59,200*
34.0	78.9	87,300*	84,300*	81,000*	78,000*	75,000*	71,300*	67,800*	64,400*	60,300*	56,600*	52,700*
36.0	78.0	80,700*	77,700*	74,500*	71,700*	68,800*	65,100*	61,800*	58,500*	54,500*	50,900*	47,200*
38.0	77.1	74,100*	71,200*	68,100*	65,300*	62,600*	59,000*	55,900*	52,700*	48,800*	45,300*	41,600*
40.0	76.1	68,100	65,200	62,200	59,500	56,900	53,400	50,400	47,300	43,600	40,100	36,600
45.0	73.8	55,800	53,100	50,200	47,800	45,300	42,000	39,300	36,400	32,800	29,700	26,300
50.0	71.4	45,600	42,900	40,200	37,900	35,500	32,500	29,800	27,100	23,700	20,800	17,700
55.0	69.0	37,200	34,600	32,100	29,900	27,500	24,700	22,100	19,500	16,200		
60.0	66.5	30,500	28,000	25,600	23,400	21,200	18,400					
65.0	63.9	25,100	22,700	20,200	18,200	16,000	13,400					
70.0	61.4	20,600	18,300	15,900	14,100							
75.0	58.7	16,700	14,600									
Reeves		4	4	4	3	3	3	3	3	3	3	3

Refer to notes on page 49-50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Boom with Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

137' Boom												
Load Radius (ft)	Boom Angle (deg.)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
34.0	79.7	85,500*	82,300*	79,000*	76,100*	73,300*	69,600*	66,300*	62,800*	58,700*	54,900*	51,200*
36.0	78.9	79,100*	76,000*	72,800*	70,000*	67,200*	63,700*	60,500*	57,100*	53,100*	49,600*	45,900*
38.0	78.0	72,700*	69,700*	66,600*	63,900*	61,200*	57,800*	54,600*	51,500*	47,600*	44,200*	40,600*
40.0	77.2	66,900	64,000	61,000	58,400	55,700	52,400	49,400	46,300	42,600	39,300	35,800
45.0	75.0	55,600	52,900	50,000	47,800	45,100	42,000	39,300	36,400	32,900	29,700	26,600
50.0	72.8	45,600	42,900	40,200	38,000	35,600	32,600	30,000	27,300	23,900	21,100	18,000
55.0	70.6	37,200	34,600	32,100	29,900	27,700	24,700	22,300	19,800	16,500		
60.0	68.3	30,400	28,000	25,600	23,400	21,300	18,600	16,200				
65.0	66.0	24,900	22,700	20,200	18,200	16,200	13,600	11,200				
70.0	63.7	20,500	18,300	15,900	14,100							
75.0	61.3	16,700	14,500									
Reeves		3	3	3	3	3	3	3	3	2	2	2
147' Boom												
Load Radius (ft)	Boom Angle (deg.)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
36.0	79.7	77,500*	74,700*	71,400*	68,800*	66,000*	62,300*	59,300*	56,000*	52,100*	48,600*	44,900*
38.0	78.9	71,500*	68,800*	65,600*	63,000*	60,300*	56,800*	53,900*	50,700*	46,900*	43,500*	39,900*
40.0	78.1	66,000*	63,400*	60,300*	57,700*	55,100*	51,800*	48,900*	45,900*	42,200*	38,900*	35,400*
45.0	76.0	55,100*	52,500*	49,600*	47,300*	44,800*	41,500*	38,900*	36,200*	32,600*	29,700*	26,300*
50.0	74.0	45,400	42,900	40,200	38,000	35,700	32,700	30,200	27,500	24,100	21,400	18,400
55.0	72.0	37,100	34,800	32,100	30,000	27,800	25,000	22,600	20,000	16,900		
60.0	69.9	30,200	28,000	25,400	23,400	21,300	18,600	16,200				
65.0	67.8	24,900	22,700	20,200	18,200	16,200	13,600	11,400				
70.0	65.6	20,400	18,200	15,900	13,900							
75.0	63.4	16,500	14,400									
Reeves		3	3	3	3	3	3	3	2	2	2	2
157' Boom												
Load Radius (ft)	Boom Angle (deg.)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
38.0	79.6	69,900*	67,000*	64,000*	61,400*	58,600*	55,300*	52,300*	49,200*	45,400*	42,200*	38,700*
40.0	78.8	64,900*	62,100*	59,200*	56,600*	54,000*	50,700*	47,800*	44,800*	41,100*	38,000*	34,500*
45.0	77.0	53,800*	51,100*	48,500*	46,000*	43,600*	40,600*	37,800*	35,100*	31,700*	28,600*	25,500*
50.0	75.1	44,800	42,300	39,800	37,500	35,200	32,300	29,700	27,100	23,900	21,100	18,200
55.0	73.2	36,900	34,600	32,100	30,000	27,800	25,000	22,600	20,100	17,000		
60.0	71.2	30,000	27,800	25,400	23,400	21,300	18,600	16,200				
65.0	69.3	24,600	22,400	20,000	18,200	16,200	13,600	11,400				
70.0	67.3	20,200	18,100	15,800	13,900							
75.0	65.2	16,300	14,300									
Reeves		3	3	3	3	3	2	2	2	2	2	2

Refer to notes on page 49-50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

107' Boom																					
Load Radius (ft)	75 ft Jib						85 ft Jib						95 ft Jib						Load Radius (ft)		
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)								
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63			
40	79,000*																		40		
45	72,000*																		45		
50	65,000*																		50		
55	59,000*						66,000*						66,000*						55		
60	52,200*						59,000*						59,000*						60		
65	45,400*	57,200					52,900*	56,700					53,100*						65		
70	39,900*	46,800*	44,200				46,200*	51,400					46,500*						70		
75	35,000*	42,700*	40,600				40,700*	46,800					41,000*	46,400					75		
80	29,700*	39,200*	37,400				36,100*	42,800					36,500*	42,500					80		
85		35,200*	34,700	32,100			32,100*	39,400	37,000				32,600*	39,100	36,300				85		
90		31,000*	32,200	30,200			28,800*	36,400	34,200				29,300*	36,100	33,900				90		
95			30,000	28,100				33,200*	31,800				26,400*	33,300*	31,500				95		
100			28,100	26,300	24,200			29,700*	29,700	27,900			23,800*	30,400*	29,400				100		
105			26,300	24,600	23,100			26,400*	27,700	26,100				27,300*	27,400	25,700			105		
110				23,100	21,800			20,700*	26,100	24,500	22,100			24,600*	25,700	24,100			110		
115					20,500	18,600			24,500	23,000	21,300			21,800*	24,200	22,700			115		
120					19,400	17,900			23,000	21,700	20,100				22,800	21,300	19,400		120		
125										20,500	19,000				21,400	20,100	18,700		125		
130											17,900					17,600	15,700		130		
135																16,600	15,300		135		
140																15,700	14,500		140		
145																14,800	13,700		145		
150																	15,800	14,500	15,700	150	
155																	14,900	13,100	15,700	155	
160																		14,900	12,400	15,700	160
165																				165	
170																				170	
175																				175	
180																				180	
185																				185	
190																				190	
195																				195	
200																				200	
205																				205	
210																				210	
215																				215	
220																				220	
Reeves	4						4						4						Reeves		

107' Boom																			
Load Radius (ft)	105 ft Jib						115 ft Jib						125 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50	64,000*																		50
55	59,000*						56,500*						51,700*						55
60	53,300*						53,000*						49,500*						60
65	46,700*						46,700*						46,000*						65
70	41,200*	46,100					41,400*						41,800*						70
75	36,800*	42,200					37,000*	41,900					37,200*	41,300					75
80	33,000*	38,900					33,200*	38,600					33,500*	38,200					80
85	29,700*	35,900	33,200				29,900*	35,700					30,200*	35,300					85
90	26,800*	33,100*	31,100				27,100*	32,900*					27,300*	32,400*					90
95	24,400*	30,600*	29,100				24,600*	30,400*	28,800				24,900*	29,900*	28,100				95
100	22,000*	27,900*	27,200				22,400*	28,200*	27,000				22,700*	27,700*	26,800				100
105		25,300*	25,500	23,500			20,500*	25,500*	25,200				20,700*	25,500*	25,200				105
110		22,900*	24,000	22,400			18,700*	23,300*	23,800	22,200			18,900*	23,300*	23,600				110
115		20,900*	22,500	21,100			16,900*	21,300*	22,300	20,900			17,100*	21,300*	22,200				115
120		18,500*	21,300	19,900	18,100			19,400*	21,100	19,700			15,600*	19,600*	21,000	19,400			120
125			20,100	18,900	17,400			17,800*	19,900	18,700	16,600		14,100*	17,800*	19,900	18,200			125
130			19,000	17,800	16,500			15,600*	18,900	17,700	16,200			16,500*	18,800	17,300			130
135				16,900	15,600	13,700			17,900	16,700	15,400			14,900*	17,800	16,400	14,900		135
140					14,700	13,500			16,300*	15,900	14,500	12,600		13,200*	16,900	15,500	14,200		140
145					14,100	12,800				15,100	13,800	12,500			15,900*	14,700	13,400		145
150					13,300	12,200					13,200	11,900			14,500*	14,100	12,700	11,400	150
155						11,500					12,500	11,200				13,400	12,200	10,800	155
160											10,600	10,100					11,500	10,200	160
165																	11,000	9,700	165
170																		9,100	170
175																		8,700	175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	4						4						4						Reeves

Refer to notes on page 49- 50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

107' Boom																				
Load Radius (ft)	135 ft Jib						145 ft Jib						155 ft Jib						Load Radius (ft)	
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)							
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63		
40																			40	
45																			45	
50																			50	
55																			55	
60	46,000*						41,600*												60	
65	44,000*						40,000*												65	
70	41,800*						38,100*							35,800*					70	
75	37,200*						36,800*							34,200*					75	
80	33,500*	37,600					34,600*							32,800*					80	
85	30,200*	35,000					30,800*							30,400*					85	
90	27,300*	32,200*					27,900*	32,000*						27,500*	31,100*				90	
95	24,900*	29,700*					25,300*	29,500*						25,100*	29,300*				95	
100	22,700*	27,500*	26,000				23,100*	27,300*						22,900*	26,800*				100	
105	20,700*	25,500*	24,900				21,100*	25,300*						20,900*	24,900*	23,500			105	
110	18,900*	23,300*	23,300				19,400*	23,100*	23,100					19,100*	22,900*	22,800			110	
115	17,400*	21,300*	22,000				17,800*	21,300*	21,800					17,600*	20,900*	21,300			115	
120	15,800*	19,600*	20,800	18,800			16,500*	19,600*	20,600					16,300*	19,400*	20,100			120	
125	14,500*	18,000*	19,700	18,000			15,200*	18,000*	19,400					14,900*	17,800*	19,000			125	
130	13,200*	16,500*	18,600	17,000			13,800*	16,500*	18,400	16,700				13,800*	16,300*	18,000			130	
135	11,900*	15,200*	17,600	16,200			12,700*	15,200*	17,400	15,800				12,700*	15,200*	17,000	15,200		135	
140		14,100*	16,700	15,300	13,600		11,600*	14,100*	16,500	15,100				11,600*	13,800*	16,200	14,700		140	
145		12,700*	15,900	14,500	13,200			13,000*	15,700	14,300				10,800*	12,700*	15,400	13,900		145	
150			14,900*	13,800	12,500			11,900*	14,900	13,600	12,200			9,700*	11,900*	14,600	13,200		150	
155			13,600*	13,200	11,900	9,800		11,000*	13,900*	13,000	11,500			8,300*	11,000*	13,800	12,500	10,800	155	
160			12,300*	12,500	11,300	9,800		9,200*	12,700*	12,300	11,000	8,900			9,900*	12,700*	12,000	10,500	160	
165				12,000	10,600	9,300			11,600*	11,700	10,400	8,900			9,000*	11,600*	11,300	10,000	165	
170				11,300	10,100	8,900				11,200	9,900	8,500				10,800*	10,800	9,400	170	
175					9,700	8,300				10,600	9,300	8,100				9,900*	10,200	8,900	7,600	175
180						7,900					8,900	7,700					9,800	8,400	7,100	180
185						7,400					8,400	7,200					9,200	8,000	6,800	185
190												6,800					8,800	7,600	6,300	190
195												6,500					7,100	6,000	5,700	195
200																				200
205																				205
210																				210
215																				215
220																				220
Reeves	3						3						3						Reeves	

107' Boom																				
Load Radius (ft)	165 ft Jib						175 ft Jib												Load Radius (ft)	
	Boom Angle (deg.)						Boom Angle (deg.)													
	88	83	78	73	68	63	88	83	78	73	68	63								
40																				40
45																				45
50																				50
55																				55
60																				60
65																				65
70	32,000*																			70
75	31,000*						28,800*													75
80	29,800*						27,500*													80
85	28,500*						26,700*													85
90	27,100*						25,500*													90
95	24,900*	29,100*					24,100*	28,200												95
100	22,700*	26,600*					22,400*	27,100												100
105	20,700*	24,600*					20,500*	25,500												105
110	19,100*	22,900*					18,900*	24,000*												110
115	17,600*	21,100*	21,000				17,400*	22,200*												115
120	16,200*	19,400*	19,900				15,800*	20,500*	19,100											120
125	14,700*	17,800*	18,800				14,700*	18,700*	18,500											125
130	13,600*	16,500*	17,700				13,400*	17,100*	17,500											130
135	12,500*	15,200*	16,800	14,500			12,500*	15,800*	16,500											135
140	11,600*	13,800*	15,900	14,400			11,200*	14,700*	15,600	13,400										140
145	10,500*	12,700*	15,100	13,600				13,400*	14,800	13,400										145
150	9,200*	11,900*	14,300	13,000				12,500*	14,100	12,600										150
155		11,000*	13,600	12,300				11,400*	13,400	12,100										155
160		10,100*	12,700*	11,600	9,800			10,500*	12,600	11,400	9,100									160
165		9,200*	11,600*	11,100	9,700			9,000*	11,600*	10,800	9,000									165
170		8,300*	10,800*	10,500	9,100				10,800*	10,200	8,800									170
175			9,900*	10,000	8,500				9,900*	9,700	8,300									175
180			9,200*	9,400	8,100				9,000*	9,100	7,800									180
185			8,300*	9,000	7,700					8,700	7,300									185
190				8,500	7,200					8,200	7,000									190
195				8,100	6,900					7,800	6,600									195
200				7,700	6,500					7,300	6,200									200
205					6,100						5,800									205
210					5,800															210
215																				215
220																				220
Reeves	3						3												Reeves	

Refer to notes on page 49- 50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

117' Boom																			
Load Radius (ft)	75 ft Jib						85 ft Jib						95 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40	78,000*																		40
45	71,000*																		45
50	64,000*																		50
55	58,000*						64,500*						64,000*						55
60	52,600*	56,600					59,000*	56,200					58,300*						60
65	45,800*	51,100					53,300*	51,000					53,200*						65
70	40,100*	46,500					46,500*	46,400					46,900*	50,300					70
75	35,200*	42,500	40,000				41,000*	42,500					41,400*	46,000					75
80		39,200	36,800				36,300*	42,500					36,800*	42,100					80
85		36,200	34,100				32,400*	39,100	36,400				32,800*	38,800					85
90		31,900*	31,700				28,800*	36,200	33,700				29,500*	35,900	33,200				90
95			29,500	27,600			24,900*	33,600	31,300				26,400*	33,200	30,900				95
100			27,600	25,900				30,400*	29,200	26,600			23,800*	31,000	28,800				100
105			25,900	24,200				27,100*	27,300	25,400				28,100*	27,000	24,400			105
110			22,800	21,000				22,400*	25,600	23,900				25,300*	25,300	23,400			110
115				19,800					24,100	22,400				22,700*	23,800	22,100			115
120				18,700						21,100	19,200				22,300	20,800			120
125						17,100				19,900	18,200				21,100	19,600	18,500		125
130						16,200					17,300				19,900	18,600	16,900		130
135						15,300					16,400					17,500	16,000	13,900	135
140																	15,200	13,700	140
145																	14,400	13,000	145
150																	13,600	12,200	150
155																		11,500	155
160																			160
165																			165
170																			170
175																			175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	4						4						4						Reeves
117' Boom																			
Load Radius (ft)	105 ft Jib						115 ft Jib						125 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55	58,000*						53,800*						48,300*						55
60	53,500*						50,900*						46,400*						60
65	47,100*						47,100*						45,000*						65
70	41,600*	45,400					41,600*						41,000*						70
75	37,000*	41,800					37,200*	41,500					37,400*						75
80	33,200*	38,500					33,200*	38,200					33,700*	37,500					80
85	29,900*	35,600	32,700				30,200*	35,300					30,400*	35,000					85
90	27,100*	33,000	30,600				27,300*	32,800					27,500*	32,500					90
95	24,400*	30,800	28,500				24,600*	30,600	28,300				24,900*	30,300					95
100	22,200*	28,600*	26,600				22,400*	28,500*	26,400				22,700*	28,100*					100
105	20,000*	25,700*	25,000	22,700			20,500*	26,200*	24,800				20,700*	26,000*	24,600				105
110		23,500*	23,500	21,800			18,700*	23,800*	23,200	20,900			18,900*	23,800*	23,200				110
115		21,300*	22,100	20,600			16,900*	21,800*	21,900	20,200			17,400*	21,800*	21,800	19,200			115
120		19,100*	20,900	19,400				19,800*	20,700	19,100			15,800*	20,000*	20,600	18,700			120
125		15,800*	19,800	18,400	16,000			18,000*	19,600	18,000			14,300*	18,200*	19,500	17,700			125
130			18,700	17,400	15,700			16,500*	18,500	17,100				16,700*	18,500	16,700			130
135			17,700	16,500	14,900				17,600	16,300	14,700			15,400*	17,500	15,800	13,600		135
140				15,600	14,200	12,600			15,400	13,900	12,500			13,800*	16,600	15,100	13,500		140
145				14,800	13,400	12,000			14,600	13,200	11,000				15,700	14,300	12,800		145
150					12,700	11,300			13,900	12,500	11,000					13,600	12,100		150
155						10,600				12,000	10,400					13,000	11,500	9,900	155
160						10,100				11,300	9,900					12,300	10,900	9,300	160
165						9,500				10,800	9,300						10,300	8,900	165
170											8,800							8,300	170
175																		7,900	175
180																		7,400	180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	4						4						4						Reeves

Refer to notes on page 49- 50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

117' Boom																			
Load Radius (ft)	135 ft Jib						145 ft Jib						155 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55																			55
60	43,500*						39,400*												60
65	42,000*						38,000*												65
70	40,200*						36,300*						34,000*						70
75	37,400*						35,000*						32,800*						75
80	33,500*	37,200					33,000*						31,500*						80
85	30,400*	34,700					30,800*	34,100					30,400*	32,800					85
90	27,500*	32,100					27,900*	31,900					27,700*	30,800					90
95	24,900*	29,900					25,500*	29,700					25,300*	29,100					95
100	22,700*	27,800*	25,400				23,300*	27,600*					23,100*	27,200*					100
105	20,700*	25,700*	24,400				21,300*	25,500*	23,400				21,100*	25,100*					105
110	18,900*	23,800*	22,900				19,600*	23,500*	22,700				19,400*	23,300*					110
115	17,400*	21,800*	21,600				18,000*	21,800*	21,300				17,800*	21,300*	20,600				115
120	15,800*	20,000*	20,300	17,800			16,500*	20,000*	20,100				16,300*	19,600*	19,700				120
125	14,500*	18,200*	19,200	17,400			15,200*	18,200*	19,000	16,500			14,900*	18,000*	18,600				125
130	13,400*	16,900*	18,100	16,500			13,800*	16,900*	17,900	16,200			13,800*	16,700*	17,600				130
135	12,100*	15,600*	17,300	15,600			12,700*	15,600*	17,000	15,400			12,700*	15,400*	16,700				135
140		14,300*	16,400	14,800	12,500		11,600*	14,300*	16,200	14,500			11,600*	14,100*	15,800	14,200			140
145		13,000*	15,600	14,100	12,500		10,500*	13,200*	15,300	13,700	11,400		10,800*	13,000*	14,900	13,400			145
150		11,900*	14,800	13,300	11,900			12,100*	14,600	13,100	11,400		9,700*	12,100*	14,300	12,700	10,200		150
155			14,100	12,600	11,200			11,000*	13,800	12,400	10,900		8,500*	11,000*	13,500	12,100	10,200		155
160			13,000*	12,100	10,500	8,300		9,900*	13,200	11,900	10,300			10,100*	12,800	11,400	9,800		160
165			11,600*	11,500	10,000	8,300			12,100*	11,300	9,800	7,400		9,200*	12,200	10,900	9,200		165
170				11,000	9,500	8,000			11,000*	10,800	9,200	7,400		8,100*	11,200*	10,300	8,800	6,500	170
175					9,000	7,600				10,200	8,700	7,300			10,100*	9,800	8,200	6,500	175
180					8,500	7,200				9,700	8,200	6,900			9,200*	9,200	7,800	6,500	180
185						6,800				9,100	7,800	6,500				8,800	7,300	6,000	185
190											7,300	6,100					7,000	5,700	190
195												5,800					6,600	5,200	195
200												5,400					6,200	4,900	200
205																		4,700	205
210																			210
215																			215
220																			220
Reeves					3						3						3		Reeves

117' Boom																			
Load Radius (ft)	165 ft Jib						175 ft Jib						Load Radius (ft)						
	Boom Angle (deg.)						Boom Angle (deg.)												
	88	83	78	73	68	63	88	83	78	73	68	63							
40																			40
45																			45
50																			50
55																			55
60																			60
65																			65
70	30,800*						27,600*												70
75	29,500*						26,500*												75
80	28,300*						25,300*												80
85	27,500*						24,200*												85
90	26,300*						23,600*	27,300											90
95	25,100*	29,000					22,700*	26,100											95
100	22,900*	27,100					20,700*	25,400											100
105	20,900*	24,900*					18,900*	23,900											105
110	19,100*	23,100*					17,400*	22,400											110
115	17,600*	21,600*	19,900				16,000*	20,900*	18,500										115
120	16,300*	19,800*	19,500				14,700*	19,100*	18,000										120
125	14,900*	18,000*	18,400				13,600*	17,600*	17,000										125
130	13,600*	16,700*	17,400				12,500*	16,300*	16,200										130
135	12,500*	15,400*	16,400				11,000*	14,900*	15,300										135
140	11,600*	14,100*	15,500	13,400				13,800*	14,500										140
145	10,800*	13,000*	14,700	13,200				12,700*	13,700	12,100									145
150	8,800*	12,100*	13,900	12,400				11,600*	13,100	11,400									150
155		11,000*	13,300	11,700				10,800*	12,400	10,900									155
160		10,100*	12,600	11,100	8,800				11,700	10,200	7,800								160
165		9,200*	12,100	10,500	8,700				11,100*	9,700	7,800								165
170		8,500*	11,200*	10,000	8,400				10,100*	9,100	7,700								170
175			10,300*	9,400	7,900				9,400*	8,700	7,100								175
180			9,400*	9,000	7,400					8,200	6,800								180
185			8,500*	8,400	7,000					7,800	6,300								185
190				8,000	6,700					7,300	6,000								190
195				7,700	6,200					6,900	5,600								195
200				7,200	5,900					6,600	5,200								200
205					5,600						4,900								205
210					5,200														210
215																			215
220																			220
Reeves					3						3								Reeves

Refer to notes on page 49-50.

CK1600G-2

Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

127' Boom																			
Load Radius (ft)	75 ft Jib						85 ft Jib						95 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40	78,000*																		40
45	71,000*																		45
50	64,000*																		50
55	59,000*																		55
60	53,100*	56,100																	60
65	46,000*	50,900																	65
70	40,300*	46,200																	70
75	35,400*	42,400	38,900																75
80		39,000	36,100																80
85		36,100	33,300																85
90		33,600	31,000	28,100															90
95		29,100*	28,900	26,700															95
100			27,100	25,000															100
105			25,300	23,400	20,800														105
110				22,000	20,000														110
115				20,700	18,800														115
120				19,500	17,800														120
125					16,800	14,500													125
130					15,800	14,300													130
135						13,500													135
140						12,600													140
145																			145
150																			150
155																			155
160																			160
165																			165
170																			170
175																			175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	4						4						4						Reeves

127' Boom																			
Load Radius (ft)	105 ft Jib						115 ft Jib						125 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55	55,200*						50,000*												55
60	52,000*						48,000*												60
65	47,300*						46,700*												65
70	41,800*						42,100*												70
75	37,200*	41,400					37,400*	40,700											75
80	33,500*	38,100					33,500*	37,800											80
85	29,900*	35,200					30,200*	34,900											85
90	27,100*	32,700					27,300*	32,500											90
95	24,600*	30,500	28,200				24,900*	30,300	27,300										95
100	22,200*	28,500	26,300				22,700*	28,300	26,100										100
105	20,200*	26,500*	24,800	21,800			20,700*	26,500	24,400										105
110		24,000*	23,200	21,000			18,700*	24,300*	23,000										110
115		21,800*	21,900	19,800			17,100*	22,200*	21,700	19,500									115
120		19,600*	20,700	18,700				20,200*	20,500	18,400									120
125			19,600	17,600	15,200			18,500*	19,400	17,400									125
130			18,500	16,700	14,900			16,700*	18,400	16,500									130
135			17,500	15,800	14,100				17,400	15,600	13,800								135
140				14,900	13,400				16,500	14,800	13,100								140
145				14,200	12,600					14,100	12,400								145
150					12,000	10,200				13,300	11,700								150
155					11,300	9,700				11,100	10,500								155
160					10,600	9,100													160
165						8,500													165
170																			170
175																			175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	3						3						3						Reeves

Refer to notes on page 49- 50.

Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

127' Boom																			
Load Radius (ft)	135 ft Jib						145 ft Jib						155 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55																			55
60	41,000*						37,500*												60
65	39,500*						36,000*												65
70	38,000*						34,700*						32,500*						70
75	36,700*						33,000*						31,000*						75
80	35,000*	36,800					32,000*						30,000*						80
85	31,300*	34,200					30,700*	33,500					28,800*						85
90	28,200*	31,800					28,200*	31,500					27,200*	30,800					90
95	25,700*	29,600					25,500*	29,400					25,300*	28,900					95
100	23,300*	27,600					23,300*	27,400					23,100*	27,000					100
105	21,300*	25,900					21,300*	25,600	22,800				21,100*	25,200*					105
110	19,600*	24,100*	22,300				19,600*	23,900*	22,100				19,400*	23,300*					110
115	18,000*	22,200*	21,000				18,000*	22,100*	20,800				17,800*	21,800*	20,100				115
120	16,500*	20,500*	19,800				16,500*	20,200*	19,600				16,300*	20,000*	19,100				120
125	15,200*	18,700*	18,700	16,000			15,200*	18,700*	18,500				14,900*	18,500*	18,100				125
130	13,800*	17,100*	17,700	15,800			14,100*	17,100*	17,500				13,800*	16,900*	17,100				130
135	12,500*	15,800*	16,800	14,900			12,700*	15,800*	16,600	14,600			12,700*	15,600*	16,200	13,500			135
140		14,500*	15,900	14,200			11,600*	14,500*	15,700	13,800			11,600*	14,500*	15,400	13,500			140
145		13,200*	15,200	13,400	10,800		10,800*	13,400*	14,900	13,200			10,800*	13,200*	14,500	12,700			145
150			14,400	12,700	10,800			12,300*	14,200	12,500	9,800			9,900*	12,300*	13,800	12,100		150
155			13,700	12,100	10,300			11,200*	13,500	11,900	9,800			8,800*	11,200*	13,200	11,400		155
160			13,100	11,500	9,800			10,300*	12,800	11,200	9,400				10,300*	12,500	10,800	8,400	160
165			12,200*	10,900	9,200	7,000			12,200	10,600	8,900			9,400*	11,900	10,200	8,300		165
170				10,300	8,700	6,800			11,500*	10,100	8,400				11,300	9,700	7,900		170
175				9,800	8,200	6,700			10,300*	9,500	7,900	6,000			10,600*	9,100	7,400		175
180					7,800	6,200				9,100	7,400	5,900			9,700*	8,700	7,000		180
185						5,900					7,100	5,600				8,200	6,700		185
190						5,600					6,700	5,200				7,800	6,200		190
195						5,100					6,200	4,900				7,300	5,900		195
200												4,600					5,500		200
205																			205
210																			210
215																			215
220																			220
Reeves				3					3						3				Reeves

127' Boom																			
Load Radius (ft)	165 ft Jib						175 ft Jib												Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)												
	88	83	78	73	68	63	88	83	78	73	68	63							
40																			40
45																			45
50																			50
55																			55
60																			60
65																			65
70	29,700*						26,500*												70
75	28,500*						25,300*												75
80	27,200*						24,500*												80
85	26,200*						23,500*												85
90	25,200*						22,500*												90
95	24,300*	28,600					21,800*	26,000											95
100	22,900*	26,700					20,700*	24,800											100
105	20,900*	25,000					18,900*	23,500											105
110	19,100*	23,200*					17,400*	22,100											110
115	17,600*	21,600*					16,000*	20,900	17,800										115
120	16,300*	20,000*	18,500				14,700*	19,500*	17,600										120
125	14,900*	18,500*	17,800				13,600*	17,800*	16,600										125
130	13,800*	16,900*	16,800				12,500*	16,500*	15,600										130
135	12,700*	15,600*	15,900				10,800*	15,200*	14,800										135
140		11,600*	14,500*	15,100	12,300			14,100*	14,100	11,200									140
145		10,800*	13,200*	14,300	12,300			13,000*	13,300	11,200									145
150		8,500*	12,300*	13,600	11,700			11,900*	12,600	10,800									150
155			11,200*	12,800	11,100			11,000*	11,900*	10,800									155
160			10,300*	12,300	10,400				12,000	10,100									160
165				11,600	9,900				11,400	9,500									165
170				11,100	9,300				10,900	9,000									170
175				10,500	8,900	7,100			10,300	8,500									175
180				9,700*	8,300	6,700			9,800	8,000									180
185				9,000*	7,900	6,300			9,000*	7,600									185
190					7,400	5,900				7,200									190
195					7,000	5,600				6,800									195
200					6,700	5,200				6,300									200
205						4,900				6,000									205
210																			210
215																			215
220																			220
Reeves				3					3										Reeves

Refer to notes on page 49- 50.

CK1600G-2 Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

137' Boom																					
Load Radius (ft)	75 ft Jib						85 ft Jib						95 ft Jib						Load Radius (ft)		
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)								
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63			
40	72,000*																		40		
45	69,200*																		45		
50	63,600*																		50		
55	58,000*						62,000*							56,800*					55		
60	53,000*	55,500					58,200*							54,400*					60		
65	46,500*	50,400					53,000*							52,500*					65		
70	40,700*	45,800					47,300*							47,600*					70		
75	35,700*	41,900					41,600*	45,500						41,800*	45,000				75		
80	31,500*	38,600	35,300				36,800*	41,600						37,200*	41,200				80		
85		35,800	32,800				32,600*	38,300	34,700					33,200*	38,000				85		
90		33,200	30,400				29,100*	35,400	32,400					29,700*	35,100	31,600			90		
95		30,600	28,400	25,400				32,900	30,000					26,800*	32,600	29,600			95		
100			26,500	24,200				30,700	27,900					24,000*	30,400	27,600			100		
105			24,900	22,800				28,700	26,200	23,200					28,400	25,700			105		
110			23,300	21,300				25,500*	24,500	21,000					26,500	24,200	21,300		110		
115				20,100	18,000				23,100	21,000					23,800*	22,700	20,600		115		
120				18,900	17,000				21,700	19,800					21,300*	21,300	19,400		120		
125					16,000	13,500				18,700	16,600					20,100	18,200		125		
130					15,200	13,300				17,600	15,700					19,000	17,300	14,600	130		
135						12,500				16,600	14,800					17,900	16,400	14,400	135		
140						11,700					14,100	11,400					15,500	13,600	14,000	140	
145						11,100						13,300						12,800	10,200	14,400	145
150																		12,200	10,200	11,400	150
155																			9,700	9,100	155
160																			8,500	8,500	160
165																					165
170																					170
175																					175
180																					180
185																					185
190																					190
195																					195
200																					200
205																					205
210																					210
215																					215
220																					220
Reeves	3						3						3						Reeves		

137' Boom																				
Load Radius (ft)	105 ft Jib						115 ft Jib						125 ft Jib						Load Radius (ft)	
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)							
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63		
40																				40
45																				45
50																				50
55	51,000*						47,000*													55
60	49,000*						45,000*							42,000*						60
65	47,200*						43,200*							40,500*						65
70	42,100*						41,000*							39,000*						70
75	37,400*	41,000					37,600*	40,300						37,200*						75
80	33,500*	37,600					33,700*	37,400						34,100*	36,700					80
85	30,200*	34,800					30,400*	34,600						30,600*	34,200					85
90	27,300*	32,400					27,500*	32,100						27,700*	31,700					90
95	24,600*	30,200	27,200				24,900*	29,900						25,100*	29,500					95
100	22,400*	28,200	25,900				22,700*	27,900	25,000					22,900*	27,600	24,400				100
105	20,200*	26,400	24,200				20,700*	26,200	24,000					20,900*	25,900	23,500				105
110		24,400*	22,800				18,900*	24,600	22,500					19,100*	24,300	22,100				110
115		22,200*	21,400	19,100			17,100*	22,700*	21,200					17,400*	22,700	20,800				115
120		20,200*	20,200	18,000				20,700*	20,000	17,200				15,800*	20,700*	19,700	16,700			120
125			19,100	17,000				18,900*	18,900	16,800					18,900*	18,600	16,400			125
130			18,100	16,200				17,100*	17,900	15,800					17,400*	17,600	15,500			130
135			17,100	15,300	13,000			15,400*	16,900	15,100					15,800*	16,600	14,600			135
140				14,500	12,500				16,200	14,300	12,000				14,500*	15,800	13,800			140
145				13,700	11,900	9,200			15,300	13,500	11,500					14,900	13,200			145
150				13,000	11,200	9,200				12,800	11,000					14,300	12,500	10,400		150
155					10,600	8,800				12,200	10,300	7,800				13,500	11,900	9,900		155
160						8,200						7,800					11,200	9,300	6,700	160
165						7,800						7,400					10,600	8,800	6,600	165
170												7,000					10,100	8,300	6,600	170
175												6,700						7,900	6,100	175
180												6,200							5,800	180
185																			5,500	185
190																				190
195																				195
200																				200
205																				205
210																				210
215																				215
220																				220
Reeves	3						3						3						Reeves	

Refer to notes on page 49- 50.

CK1600G-2

Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

137' Boom																			
Load Radius (ft)	135 ft Jib						145 ft Jib						155 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55																			55
60	38,800*						35,500*												60
65	37,000*						34,000*												65
70	35,800*						32,600*						30,600*						70
75	34,300*						31,500*						29,200*						75
80	33,000*						30,000*						28,000*						80
85	31,300*						29,000*	33,200					27,200*						85
90	28,400*	31,500					27,800*	31,100					26,200*						90
95	25,700*	29,300					25,700*	28,900					25,000*	28,600					95
100	23,500*	27,300					23,500*	27,100					23,300*	26,700					100
105	21,600*	25,600	22,500				21,600*	25,300					21,300*	25,000					105
110	19,800*	24,000	21,800				19,600*	23,800					19,400*	23,400					110
115	18,000*	22,400*	20,600				18,000*	22,100*	20,000				17,800*	21,800*	19,100				115
120	16,500*	20,800*	19,400				16,500*	20,700*	19,100				16,500*	20,200*	18,700				120
125	15,200*	19,100*	18,200	15,400			15,200*	18,900*	18,000				15,200*	18,900*	17,700				125
130	13,800*	17,600*	17,300	15,200			14,100*	17,600*	17,000				13,800*	17,400*	16,700				130
135	12,700*	16,000*	16,400	14,400			13,000*	16,000*	16,200	13,700			12,700*	16,000*	15,800				135
140		14,700*	15,500	13,600			11,900*	14,700*	15,300	13,300			11,600*	14,700*	14,900	12,700			140
145		13,600*	14,700	12,800	9,900		10,800*	13,600*	14,500	12,600			10,800*	13,600*	14,200	12,100			145
150		12,300*	14,100	12,200	9,900			12,500*	13,800	11,900			9,900*	12,500*	13,400	11,400			150
155		11,000*	13,400	11,500	9,500			11,400*	13,200	11,200	8,300		9,000*	11,400*	12,700	10,800			155
160			12,700	11,000	9,000			10,500*	12,500	10,600	8,300			10,500*	12,200	10,200			160
165				10,300	8,400				11,900	10,100	8,100			9,700*	11,500	9,700			165
170				9,900	8,000				11,300	9,500	7,700			8,800*	11,000	9,100			170
175				9,300	7,600				10,600*	9,000	7,200			8,800*	10,400	8,500			175
180					7,100					8,500	6,800			7,400*	10,000	8,100			180
185					6,700					8,100	6,500					7,700			185
190					6,300					7,700	6,000					7,200			190
195											5,700					6,900			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	3						3						3						Reeves

137' Boom																			
Load Radius (ft)	165 ft Jib						175 ft Jib												Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)												
	88	83	78	73	68	63	88	83	78	73	68	63							
40																			40
45																			45
50																			50
55																			55
60																			60
65																			65
70	28,000*						25,400*												70
75	27,000*						24,500*												75
80	26,000*						23,500*												80
85	25,000*						22,600*												85
90	24,000*						21,800*												90
95	23,000*	27,200					21,000*	25,500											95
100	22,000*	26,000					20,000*	23,800											100
105	21,100*	24,600					18,900*	22,800											105
110	19,400*	23,100					17,600*	21,900											110
115	17,800*	21,600*					16,000*	20,600											115
120	16,300*	20,000*	18,000				14,700*	19,500											120
125	14,900*	18,700*	17,400				13,600*	18,100*	16,000										125
130	13,800*	17,400*	16,400				12,700*	16,700*	15,300										130
135	12,700*	15,800*	15,500				10,800*	15,400*	14,400										135
140	11,600*	14,700*	14,700					14,300*	13,600										140
145	10,800*	13,400*	13,900					13,200*	13,000										145
150	8,300*	12,500*	13,200	11,100				12,100*	12,300	9,700									150
155		11,400*	12,500	10,400				11,200*	11,600	9,500									155
160		10,500*	11,900	9,900					11,100	9,000									160
165		9,700*	11,300	9,300					10,400	8,400									165
170		8,800*	10,800	8,800					9,900	8,000									170
175			10,200	8,300					9,400	7,600									175
180			9,700	7,800					8,900	7,100									180
185			9,200	7,300						6,700									185
190			8,400*	7,000						6,200									190
195				6,600						5,900									195
200				6,200						5,600									200
205				5,800						5,200									205
210																			210
215																			215
220																			220
Reeves	2						2												Reeves

Refer to notes on page 49- 50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

147' Boom																			
Load Radius (ft)	75 ft Jib						85 ft Jib						95 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40	66,200*																		40
45	63,800*																		45
50	60,800*																		50
55	58,600*																		55
60	54,000*	55,000																	60
65	46,900*	49,900																	65
70	41,000*	45,400																	70
75	36,100*	41,600																	75
80		38,300	34,300																80
85		35,400	32,100																85
90		32,900	29,800																90
95		30,600	27,800																95
100			26,000	23,200															100
105			24,300	22,000															105
110			22,900	20,700															110
115				19,500															115
120				18,400	16,000														120
125				17,300	15,300														125
130					14,500	11,500													130
135					13,600	11,500													135
140						10,900													140
145																			145
150																			150
155																			155
160																			160
165																			165
170																			170
175																			175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	3						3						3						Reeves

147' Boom																			
Load Radius (ft)	105 ft Jib						115 ft Jib						125 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55	47,700*																		55
60	45,800*																		60
65	44,000*																		65
70	41,500*																		70
75	37,600*	40,500																	75
80	33,700*	37,300																	80
85	30,400*	34,500																	85
90	27,300*	32,000																	90
95	24,900*	29,800	26,700																95
100	22,400*	27,800	25,200																100
105		26,100	23,600																105
110		24,500	22,200																110
115		22,700*	21,000	17,800															115
120		20,700*	19,800	17,400															120
125			18,700	16,400															125
130			17,700	15,500															130
135			16,700	14,700	12,000														135
140				13,900	11,700														140
145				13,200	11,100														145
150				12,500	10,400														150
155					9,900	7,600													155
160						7,300													160
165						6,900													165
170						6,500													170
175						6,100													175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	3						3						3						Reeves

Refer to notes on page 49- 50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

147' Boom																				
Load Radius (ft)	135 ft Jib						145 ft Jib						155 ft Jib						Load Radius (ft)	
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)							
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63		
40																				40
45																				45
50																				50
55																				55
60	36,200*						33,600*													60
65	34,800*						32,000*													65
70	33,500*						31,000*													70
75	32,200*						29,800*								29,200*					75
80	31,000*						28,500*								28,000*					80
85	30,000*						27,500*								26,800*					85
90		31,000					26,300*	30,800							25,800*					90
95	26,000*	28,900					25,400*	28,600							24,800*					95
100	23,500*	27,000					23,500*	26,700							24,000*	28,200				100
105	21,600*	25,300	22,000				21,600*	25,000							23,000*	26,400				105
110	19,800*	23,800	21,300				19,800*	23,400							21,300*	24,600				110
115	18,000*	22,300	20,000				18,000*	21,900*	19,500						19,600*	23,100				115
120	16,700*	20,800*	18,900				16,700*	20,500*	18,600						18,000*	21,700				120
125	15,200*	19,400*	17,800				15,400*	19,400*	17,600						16,500*	20,200*	17,700			125
130	13,800*	17,800*	16,800				14,100*	17,800*	16,600						15,200*	18,900*	17,100			130
135	12,700*	16,300*	15,900	13,300			13,000*	16,500*	15,700						13,800*	17,600*	16,300			135
140		14,900*	15,200	13,000			11,900*	15,200*	14,900	12,000					12,900*	16,300*	15,400			140
145		13,800*	14,400	12,200				13,800*	14,200	11,900					11,900*	14,900*	14,500	11,200		145
150		12,500*	13,600	11,500	8,400			12,700*	13,400	11,200					10,800*	13,800*	13,700	11,200		150
155		11,400*	13,000	11,000	8,400			11,600*	12,700	10,600					9,900*	12,700*	13,100	10,800		155
160			12,400	10,300	8,200			10,800*	12,200	10,000					9,000*	11,600*	12,400	10,100		160
165			11,700	9,800	7,800				11,500	9,400	7,300					10,800*	11,700	9,500		165
170			11,200	9,200	7,200				11,000	9,000	6,900	7,300				9,900*	11,200	9,000		170
175				8,800	6,900				8,800	8,400	6,600	6,900				9,000*	10,600	8,500		175
180				8,300	6,500					8,000	6,100	6,600					10,000	8,000		180
185					6,000					7,600	5,800	6,100					9,400	7,600		185
190					5,700						5,400	5,800					8,800	7,100		190
195											5,000	5,400						6,800		195
200											4,700	5,000						6,300		200
205												4,700						6,000		205
210																				210
215																				215
220																				220
Reeves				3						2							2			Reeves

147' Boom																				
Load Radius (ft)	165 ft Jib						175 ft Jib						Load Radius (ft)							
	Boom Angle (deg.)						Boom Angle (deg.)													
	88	83	78	73	68	63	88	83	78	73	68	63								
40																				40
45																				45
50																				50
55																				55
60																				60
65																				65
70	26,800*						24,000*													70
75	25,600*						23,000*													75
80	24,700*						22,200*													80
85	23,800*						21,500*													85
90	23,000*						20,500*													90
95	22,000*	26,000					19,800*	23,500												95
100	21,000*	24,800					19,000*	22,500												100
105	20,400*	24,000					18,200*	21,800												105
110	19,400*	23,000					17,600*	21,000												110
115	17,800*	21,900					16,300*	20,000												115
120	16,300*	20,600	17,000				14,900*	19,100												120
125	14,900*	19,400	16,800				13,600*	18,100												125
130	13,800*	18,400	15,800				12,600*	16,900*	15,000											130
135	12,700*	17,300*	15,100					15,800*	14,500											135
140	11,600*	15,900*	14,100					14,500*	13,600											140
145	10,800*	14,700*	13,400	10,100				13,400*	13,000*											145
150	8,100*	13,600*	12,700	10,100				12,300*	12,100*											150
155		12,500*	12,100	9,800				11,400*	11,400*	9,100										155
160		11,400*	11,400	9,200				11,000*	11,000*	8,900										160
165		10,500*	10,800	8,700				10,500*	10,300*	8,300										165
170		9,700*	10,100	8,200				9,700*	9,700*	7,900										170
175			9,500*	7,700				9,200*	9,200*	7,400										175
180			9,000*	7,200				8,800*	8,800*	7,000										180
185			8,500*	6,900				8,300*	8,300*	6,600										185
190			8,100*	6,500				7,700*	7,700*	6,100										190
195			6,500*	6,100						5,800										195
200				5,700						5,500										200
205				5,400						5,000										205
210																				210
215																				215
220																				220
Reeves				2						2										Reeves

Refer to notes on page 49- 50.

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Luffing Boom/Jib - SPECIFICATIONS

Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

157' Boom																			
Load Radius (ft)	75 ft Jib						85 ft Jib						95 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40	60,700*																		40
45	59,000*																		45
50	56,300*																		50
55	54,200*						52,500*												55
60	52,000*	54,300					50,700*												60
65	47,300*	49,300					48,500*												65
70	41,400*	44,800					46,700*												70
75	36,300*	41,100					42,100*	44,500											75
80		37,900	33,500				37,200*	40,700											80
85		35,000	31,300				33,000*	37,400											85
90		32,500	29,100					34,700	30,400										90
95		30,300	27,100					32,100	28,600										95
100			25,300	21,900				30,000	26,600										100
105			23,800	21,100				28,100	25,000										105
110			22,200	19,900				26,300	23,300	20,000									110
115				18,700				22,900	22,000	19,500									115
120				17,600	14,400				20,700	18,200									120
125				16,600	14,200				19,500	17,300									125
130					13,400				18,400	16,300	13,000								130
135					12,600					15,400	12,800								135
140						9,200				14,500	12,200								140
145						9,000					11,400								145
150						8,400					10,800								150
155											10,100	8,000							155
160												7,400							160
165												7,000							165
170																			170
175																			175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	3						3						3						Reeves

157' Boom																			
Load Radius (ft)	105 ft Jib						115 ft Jib						125 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55	44,000*						40,500*												55
60	42,000*						39,000*												60
65	40,700*						37,500*												65
70	39,000*						36,000*												70
75	37,000*						34,500*												75
80	33,900*	40,000					33,000*	36,000											80
85	30,600*	34,000					31,900*	33,700											85
90	27,500*	31,600					28,800*	31,300											90
95	24,900*	29,400					26,200*	29,200											95
100	22,400*	27,500	24,000				23,800*	27,300	23,500										100
105	20,500*	25,700	23,000				21,600*	25,500	22,800										105
110		24,200	21,700				19,600*	24,000	21,300										110
115		22,800	20,300				17,800*	22,500	20,100										115
120		21,100*	19,200	16,100				21,300	19,000										120
125		18,900*	18,100	15,600				19,700*	17,900										125
130		16,300*	17,100	14,800				17,800*	16,900	14,400									130
135			16,300	13,900				16,300*	16,000	13,700									135
140			15,400	13,200	10,100				15,300	13,000									140
145				12,500	10,000				14,500	12,200									145
150				11,900	9,400				13,700	11,500	9,100								150
155				11,200	8,900					11,000	8,500								155
160					8,300	5,800					8,100								160
165					7,900	5,800					7,600								165
170						5,500					7,100								170
175						5,000					6,800								175
180																			180
185																			185
190																			190
195																			195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	3						2						2						Reeves

Refer to notes on page 49- 50.

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Luffing Boom/Jib - SPECIFICATIONS


Luffing Jib Lift Capacities

11 Counterweights (121,300 lbs) - 2 Carbody weights (23,810 lbs)

157' Boom																			
Load Radius (ft)	135 ft Jib						145 ft Jib						155 ft Jib						Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)						Boom Angle (deg.)						
	88	83	78	73	68	63	88	83	78	73	68	63	88	83	78	73	68	63	
40																			40
45																			45
50																			50
55																			55
60	34,000*																		60
65	32,700*																		65
70	31,300*						29,800*												70
75	30,000*						28,800*												75
80	29,000*						27,500*												80
85	28,000*						26,500*												85
90	27,000*	30,600					25,500*	29,500											90
95	25,600*	28,500					24,500*	28,000											95
100	23,800*	26,600					23,500*	26,300											100
105	21,800*	24,900					21,600*	24,600											105
110	19,800*	23,300					19,800*	23,100											110
115	18,200*	22,000	19,100				18,200*	21,700	18,400										115
120	16,700*	20,600*	18,200				16,700*	20,300*	18,000										120
125	15,400*	19,400*	17,300				15,400*	18,900*	17,000										125
130	14,100*	18,200*	16,400				14,100*	17,800*	16,000										130
135	12,700*	16,700*	15,500	12,400			13,000*	16,700*	15,200										135
140		15,400*	14,600	12,100			11,900*	15,400*	14,400	11,000									140
145		14,100*	13,900	11,400				14,100*	13,600	11,000									145
150		12,700*	13,200	10,800				13,000*	13,000	10,400									150
155		11,600*	12,500	10,200				11,900*	12,300	9,900									155
160			12,000	9,700	6,700			11,000*	11,500*	9,300									160
165			11,200*	9,100	6,700				11,000*	8,800									165
170				8,500	6,300				10,300*	8,200									170
175				8,100	6,000				9,700*	7,800									175
180				7,700	5,600				9,000*	7,300									180
185					5,200					6,900									185
190					4,900					6,600									190
195					4,400					6,100									195
200																			200
205																			205
210																			210
215																			215
220																			220
Reeves	2						2						2						Reeves

157' Boom																			
Load Radius (ft)	165 ft Jib						175 ft Jib												Load Radius (ft)
	Boom Angle (deg.)						Boom Angle (deg.)												
	88	83	78	73	68	63	88	83	78	73	68	63							
40																			40
45																			45
50																			50
55																			55
60																			60
65																			65
70	25,300*																		70
75	24,500*																		75
80	23,300*																		80
85	22,500*																		85
90	21,800*																		90
95	20,700*																		95
100	20,000*	24,200																	100
105	19,300*	23,300																	105
110	18,500*	22,500																	110
115	17,800*	21,400																	115
120	16,500*	20,200																	120
125	15,200*	19,100																	125
130	13,800*	18,000	14,600*																130
135	12,700*	16,800*	14,100*																135
140	11,700*	15,800*	13,200*																140
145		14,900*	12,500*																145
150		13,800*	11,900*																150
155		12,700*	11,200*	8,500															155
160		11,600*	10,500*	8,400															160
165		10,800*	9,900*	8,000															165
170			9,400*	7,400															170
175			8,800*	7,000															175
180			8,300*	6,600															180
185			7,900*	6,200															185
190			7,400*	5,800															190
195			6,800*	5,500															195
200				5,100															200
205				4,800															205
210																			210
215																			215
220																			220
Reeves	2						2												Reeves

Refer to notes on page 49- 50.



Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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