

Hydraulic Crawler Crane

CK1100G-2

Max. Lifting Capacity : 110 US Tons

Max. Crane Boom Length : 200 ft

Max. Fixed Jib Combination : 190 ft + 60 ft



CK1100G-2
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General Description



<i>Type</i>	Crawler mounted, Lattice boom, Hydraulic controlled
<i>Maximum lift capacity</i>	220,000 lbs (99,800 kg) @ 11' operating radius (40' boom)
<i>Basic boom length</i>	40' (12.2 m)
<i>Maximum boom length</i>	200' (61.0 m)
<i>Basic boom & jib length</i>	80' + 30' (24.4 m + 9.1 m)
<i>Maximum boom & jib length</i>	190' + 60' (57.9 m + 18.3 m)
<i>Working weight</i>	Approx. 198,500 lbs (90,050 kg)
<i>Ground bearing pressure</i>	Approx. 12.9 psi (88.9 kPa)
<i>Gradeability</i>	40%

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, 40' boom.

General Dimensions

<i>Height to top of gantry (lowered)</i>	10' 10" (3.31 m)
<i>Width of upper machine w/operator's cab</i>	9' 10" (2.99 m)*
<i>Radius of rear end (counterweights)</i>	15' 5" (4.70 m)
<i>Counterweight ground clearance</i>	3' 8" (1.12 m)
<i>Center of rotation to boom foot pin</i>	3' 7" (1.10 m)
<i>Height from ground to boom foot pin</i>	5' 10" (1.77 m)
<i>Height over gantry (raised)</i>	20' 4" (6.19 m)
<i>Overall length of crawlers</i>	20' 7" (6.28 m)
<i>Overall width of crawlers</i>	17' 2" (5.24 m)
<i>Center to center, idler to sprocket</i>	17' 10" (5.44 m)
<i>Shoe width</i>	36" (0.91 m)
<i>Ground clearance of body</i>	15" (0.39 m)

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Working Speed

<i>Hoist line speed (front and rear drums)</i>	390 ~ 10 ft/min (120 ~ 3 m/min)
<i>Lowering line speed (front and rear drums)</i>	390 ~ 10 ft/min (120 ~ 3 m/min)
<i>Boom hoist line speed (front and rear drums)</i>	230 ~ 6.6 ft/min (70 ~ 2 m/min)
<i>Boom lowering line speed (front and rear drums)</i>	230 ~ 6.6 ft/min (70 ~ 2 m/min)
<i>Swing speed (max.)</i>	4.0 rpm
<i>Travel speed (high/low)</i>	1.07/0.71 mph (1.7/1.1 km/h)

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



Upper Machinery

Power Plant:

<i>Diesel engine - make and model</i>	Hino J08E-VV
	(Tier 4 Final)
<i>No. of cylinders</i>	6
<i>Bore X stroke</i>	112 mm x 130 mm
<i>Cycles</i>	4
<i>Total displacement</i>	469 cu.in. (7.684 l)
<i>Rated output SAE GROSS</i>	285 HP / 2,100 rpm (213 kW / 2,100 min ⁻¹)

<i>Maximum torque</i>	750 lbs-ft / 1,600 rpm (1,017 Nm / 1,600 min ⁻¹)
<i>Starter</i>	24 Volts / 5.0 kW

<i>Alternator</i>	24 Volts / 90 Amp
<i>Batteries</i>	Two 12 volt, 136 AH/5 HR capacity series connected.
<i>Radiator</i>	Corrugated type core, thermostatically controlled, with cleanout screen.
<i>Throttle</i>	Twist grip type hand throttle, electrically controlled, in conjunction with floor mounted pedal.
<i>Air cleaner</i>	Dry type with replaceable paper element.
<i>Fuel tank capacity</i>	106 US gal. (400 liters)
<i>Lube oil filters</i>	Full flow and by-pass type with element cartridge type.
<i>Fuel filter</i>	Replaceable cartridge element.

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



Self Lifting Device - Standard Equipment

Counterweight and Carbody weight

Counterweight Base	1 x 18,300 (8,310 kg)
Counterweight (R)	2 x 12,700 (5,750 kg)
Counterweight (L)	2 x 12,700 (5,750 kg)
Total Counterweight	69,100 (31,310 kg)

Carbody weight 2 x 15,900 (7,200 kg)

Total Carbody weight 31,800 (14,400 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

Reservoir capacity

100.3 US gal (380 liters)

Hydraulic pumps:

Load hoist, boom hoist, and propel

2 piston pumps, max flow rate
67.3 US gal/min x 2 (255 l/min x 2)

Swing

1 piston pump, max flow rate
46.7 US gal/min (177 l/min)

Control system and auxiliary

2 Gear pumps, max flow rate
16.3 US gal/min + 10.6 US gal (61.6 l/min + 40.5 l/min)

Brake cooling system

2 gear pumps, max flow rate
19.4 US gal/min x 2 (73.5 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 adjustable 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.

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) - 46,800 lbf (208 kN)
 Rated line pull - 25,200 lbf (112 kN)

Lower Machinery

Crawlers:

Crawler assemblies can be hydraulically extended or retracted for wide track operation or retracted for transportation. Crawler belt tension adjusted with hydraulic jack and maintained by shims between the idler block and frame.

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:

66 shoes - 36" 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 -

614 mm P.C.D. x 617 mm Lg., grooved for 26 mm wire rope. Rope capacity is 771' (235 m) working length and 1,181' (360 m) storage length.

Rear drum -

614 mm P.C.D. x 617 mm Lg., grooved for 26 mm wire rope. Rope capacity is 525' (160 m) working length and 1,181' (360 m) storage length.

3rd drum (optional) -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 476' (145 m) working length and 1,099' (335 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>	200' (61.0 m)
<i>Basic boom length</i>	40' (12.2 m)
<i>Boom base section</i>	19'7" (5.97 m)
<i>Boom tip section</i>	22'8" (6.91 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.

Boom insert

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>	60' (18.3 m)
<i>Basic jib length</i>	30' (9.1 m)
<i>Jib base section</i>	15'9" (4.8 m)
<i>Jib tip section</i>	16'5" (5.0 m)
<i>Jib insert</i>	10' (3.1 m), 20' (6.1 m)

Jib is useable on booms of 80' (24.4 m) through 190' (57.9 m)



Auxiliary sheave (optional):

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

Boom hoist reeving:

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

Boom backstops:

Telescopic type with spring bumper

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

Others

- Air conditioner/heater
- Drum turn indicator (front/rear)
- Foot pedal / throttle
- Electric fueling transfer pump
- Counterweight self-removal device
- KCross Telematics
- Free fall winches

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 base catwalk
- Upper machinery catwalk, handrails and ladder

Tools and Accessories

A set of tools and accessories are furnished.

Optional Equipment

- Third drum with Free Fall
- Hook block
- Hook ball
- Auxiliary sheave
- Fixed jib
- Boom inserts
- Carbody erection cylinder

G-Mode

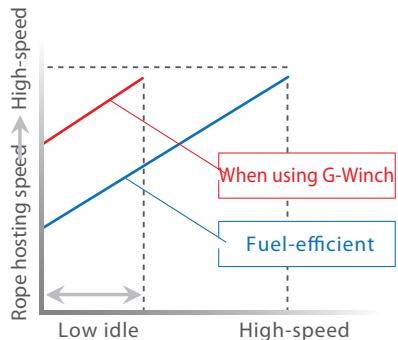
The G-modes are a standard exclusive energy and fuel saving system, with up to 30% in fuel savings. The G-Mode eliminates needless operations and engine functions allowing for reduced fuel consumption by using three basic modes that are all operator selectable.

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-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.

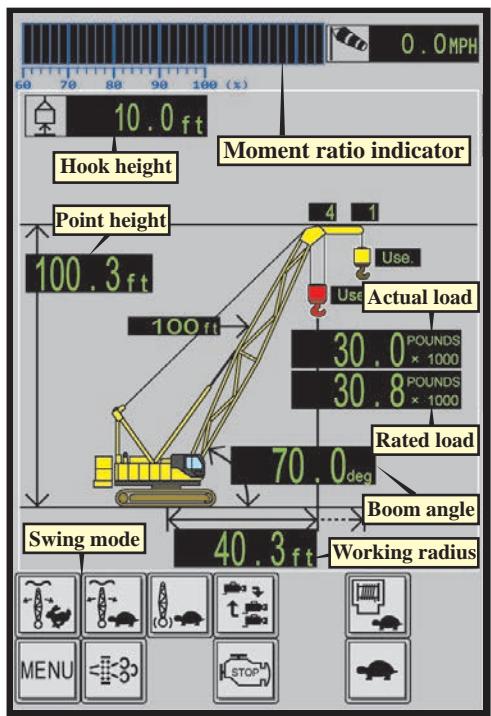
This system requires the use of low sulfur diesel.

* 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)**Main Menu**

Crane Config.



Angle/Radius Limiter

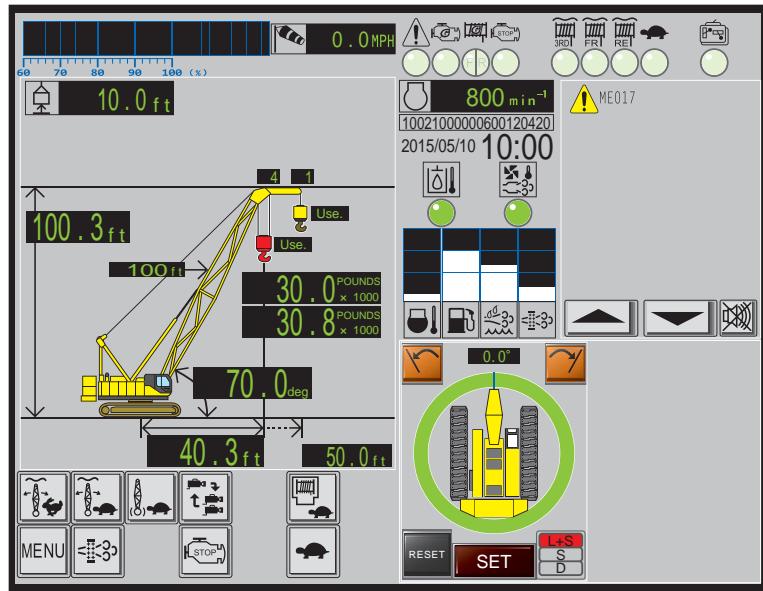
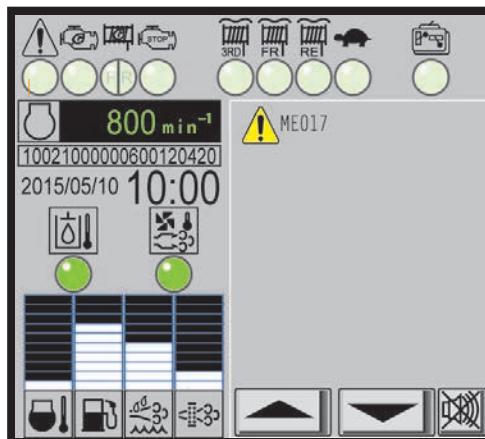
Self Check Mode

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.

**Gauges (Right Side)****Display Lamp**

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

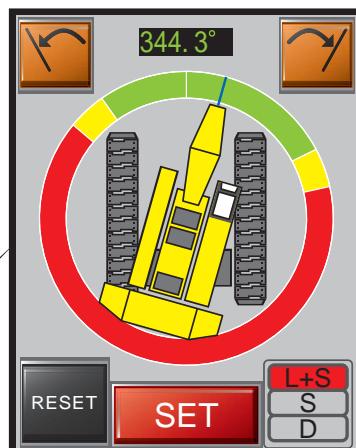
Error Message

Touch to display details in a pop-up window.

Gauges

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

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



Winch Performance Data**Note:**

Line speed and line pull based on Hino J08E-VV at 2,100 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 = 25,200 lbf (112 kN)

Maximum Line Pull = 46,800 lbf (208 kN)

Total Storage Capacity = 1,185 ft (361.2 m)

Line speed (ft/min)

Layer	1	2	3	4	5	6
Line Pull (lbs)	0	393	421	449	476	504
	5,000	393	421	449	476	504
	10,000	387	414	440	467	494
	15,000	360	360	348	348	348
	20,000	270	270	261	261	261
	25,200	214	214	199	187	173
	30,000	166	149	140	138	136
	35,000	120	118	114	109	
	40,000	100	95			
Storage Capacity (ft)		139	149	159	169	179
						189

storage
only**Third Drum (for Load hoist)**

Wire Rope Diameter = See spec in chart below

Rated Line Pull = 17,000 lbf (78.5 kN)

Maximum Line Pull = 32,400 lbf (144 kN)

Total Storage Capacity = 1,099 ft (334.9 m)

Line speed (ft/min)

Layer	1	2	3	4	5	6
Line Pull (lbs)	0	394	394	394	394	394
	5,000	394	394	394	394	394
	10,000	227	227	227	227	227
	15,000	147	152	161	170	179
	17,000	142	151	160	169	178
	20,000	140	149	158	167	176
	25,000	138	147	155	164	172
	30,000	136	144			
	Storage Capacity (ft)	130	139	148	157	166
						175

storage
only**Wire Rope Specifications**

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	771ft (235 m)	3.5: 1	120,048 lbf (534 kN)
Rear drum	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	525ft (160 m)	3.5: 1	120,048 lbf (534 kN)
Boom drum	6 x 31 P Warrington seal Right hand lay, Regular lay	0.646" to 0.658" (16.40 mm to 16.72 mm)	492ft (150 m)	3.5: 1	47,210 lbf (210 kN)
Third drum (Optional)	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	476ft (145 m)	3.5: 1	81,606 lbf (363 kN)

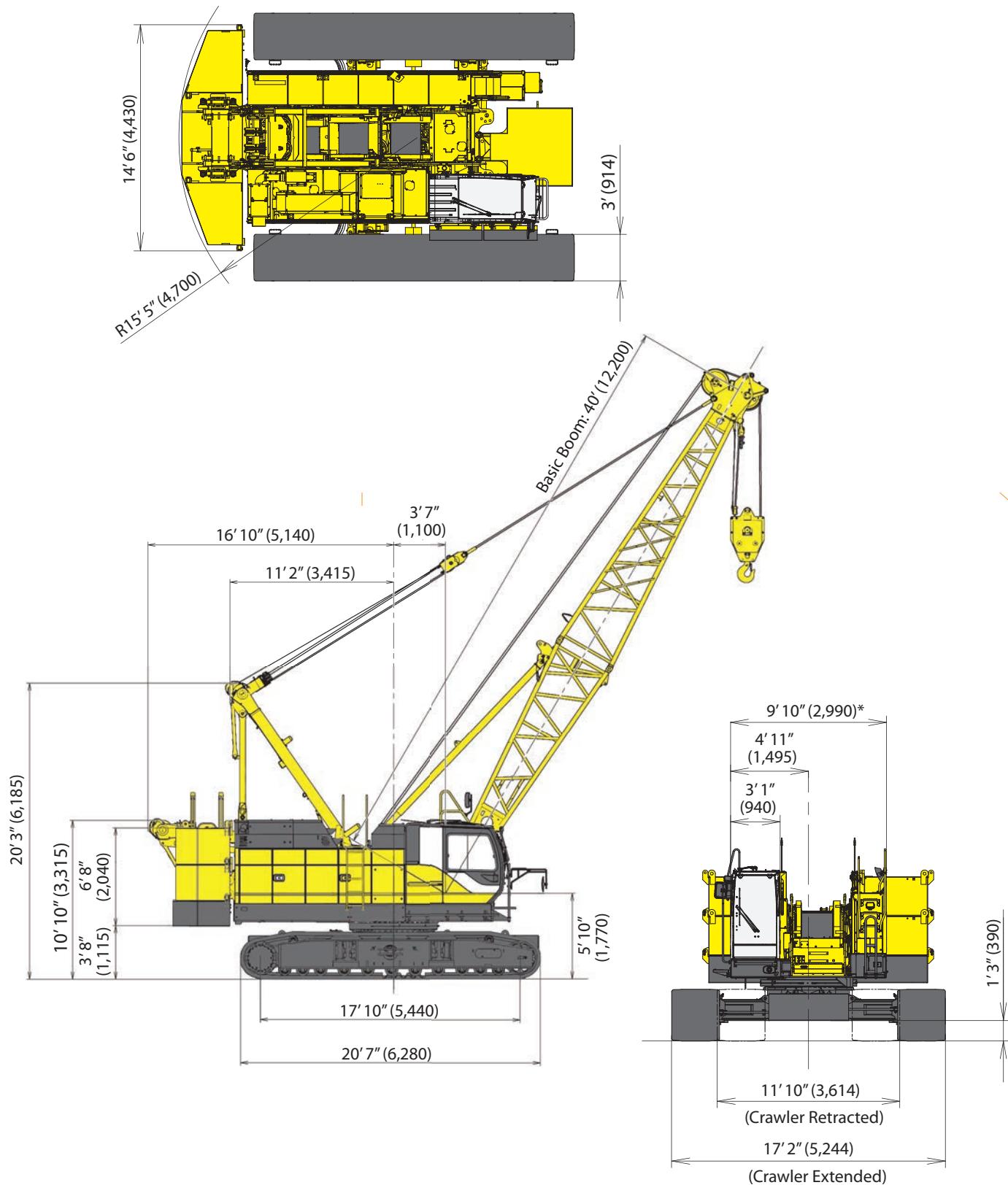
This information is for reference use only. Operators manual should be consulted and adhered to.

Please contact Bigge Crane and Rigging Co. at 888-337-BIGGE or email info@bigge.com for further information.

Tel: (888) 337-BIGGE or (510) 638-8100 • Fax: (510) 639-4053

Email: info@bigge.com



General Dimensions

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



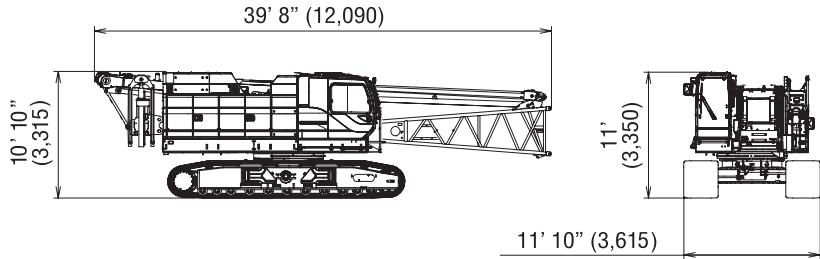
Dimensions and Weight

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

Base Machine - 1

Weight: 95,800 lbs (43,430 kg)

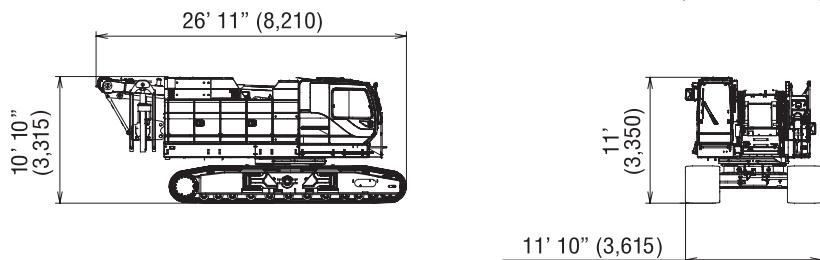
Boom base, boom drum, gantry, crawlers, self removal unit, side step, and wire ropes (front, rear, and boom hoist)



Base Machine - 2

Weight: 91,200 lbs (41,375 kg)

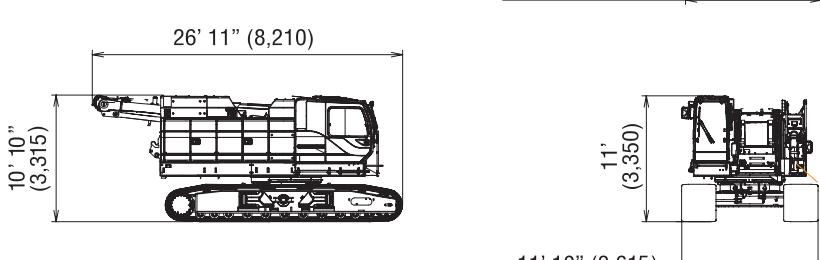
Gantry, boom drum, crawlers, self removal unit, side step, and wire ropes (front, rear, and boom hoist)



Base Machine - 3

Weight: 89,300 lbs (40,475 kg)

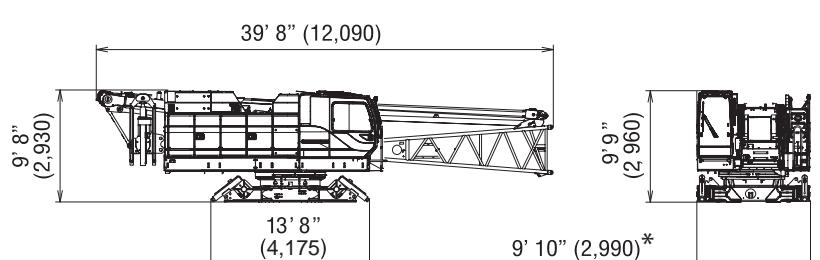
Gantry, boom drum, crawlers, side step, and wire ropes (front, rear, and boom hoist)



Base Machine - 4

Weight: 64,900 lbs (29,450 kg)

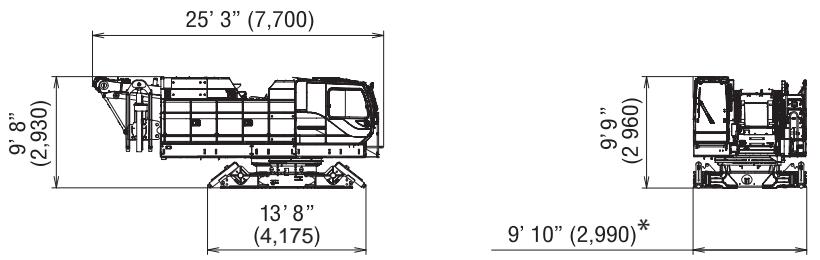
Boom base, boom drum, gantry, self removal unit, and wire ropes (front, rear, and boom hoist) (translifters pictured are optional)



Base Machine - 5

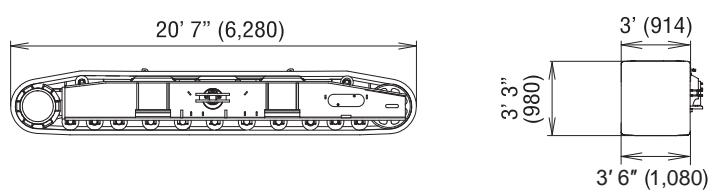
Weight: 60,400 lbs (27,395 kg)

Gantry, boom drum, self removal unit, and wire ropes (front, rear, and boom hoist) (translifters pictured are optional)



Crawler

Weight: 16,700 lbs (7,550 kg)



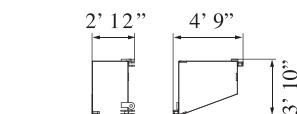
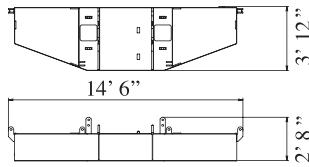
* - 10'4" wide with Catwalks on cab side only.



Dimensions and Weight

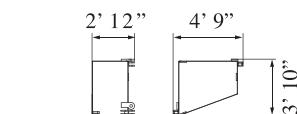
Counterweight Base

Weight: 18,300 lbs (8,310 kg)



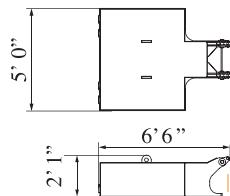
Counterweight (R)

Weight: 12,700 lbs (5,750 kg)



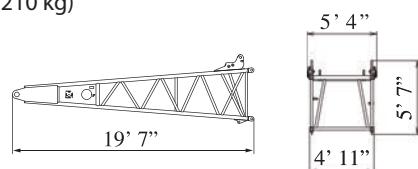
Carbody Weight

Weight: 15,900 lbs (7,200 kg)



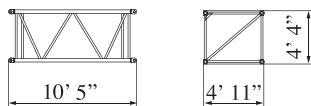
Boom Base

Weight: 2,700 lbs (1,210 kg)



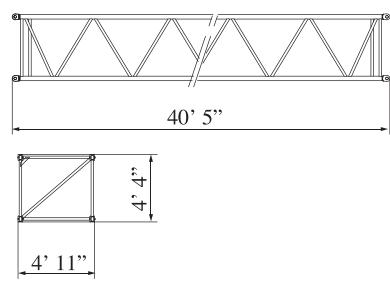
10 ft (3.0 m) Insert Boom

Weight: 680 lbs (310 kg)



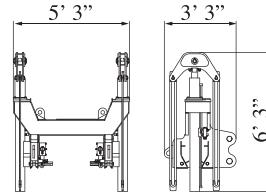
40 ft (12.2 m) Insert Boom

Weight: 2,100 lbs (965 kg)



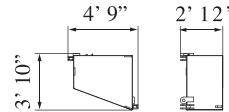
Self Removal Unit

Weight: 1,900 lbs (860 kg)



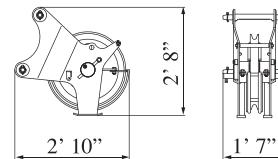
Counterweight (L)

Weight: 12,700 lbs (5,750 kg)



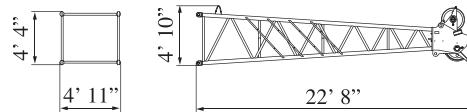
Auxiliary Sheave

Weight: 430 lbs (195 kg)



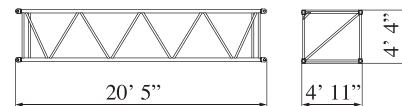
Boom Tip

Weight: 2,700 lbs (1,205 kg)



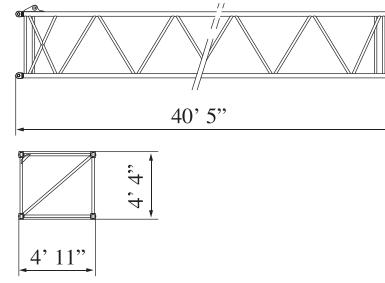
20 ft (6.1 m) Insert Boom

Weight: 1,200 lbs (525 kg)



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

Weight: 2,200 lbs (980 kg)

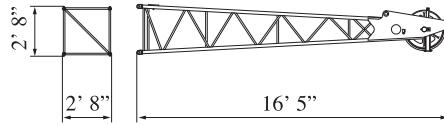


Dimensions and Weight

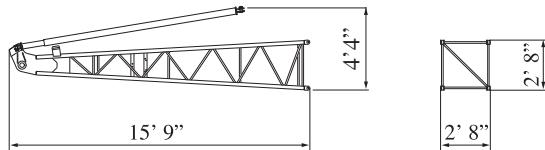
Dimensions: ft-in (mm) Weight: lbs (kg)

Jib Tip

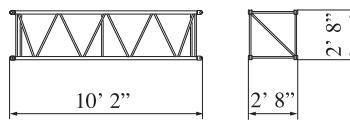
Weight: 620 lbs (280 kg)

**Jib Base and Strut**

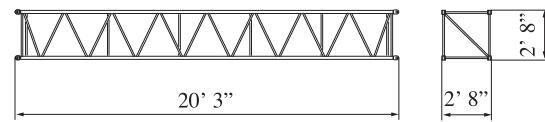
Weight: 990 lbs (450 kg)

**10 ft (3.0 m) Insert Jib**

Weight: 220 lbs (100 kg)

**20 ft (6.1 m) Jib Insert**

Weight: 400 lbs (180 kg)



Transportation Plan

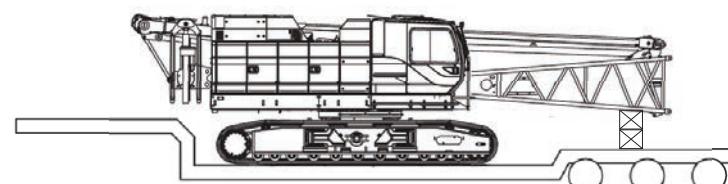
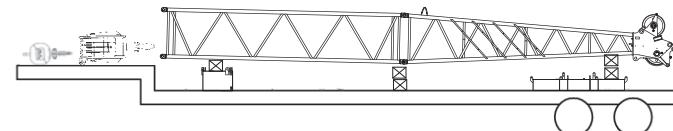
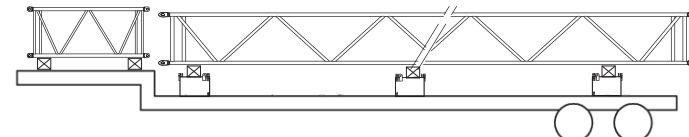
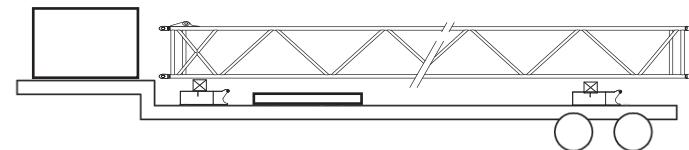
Refer to pages 10-12

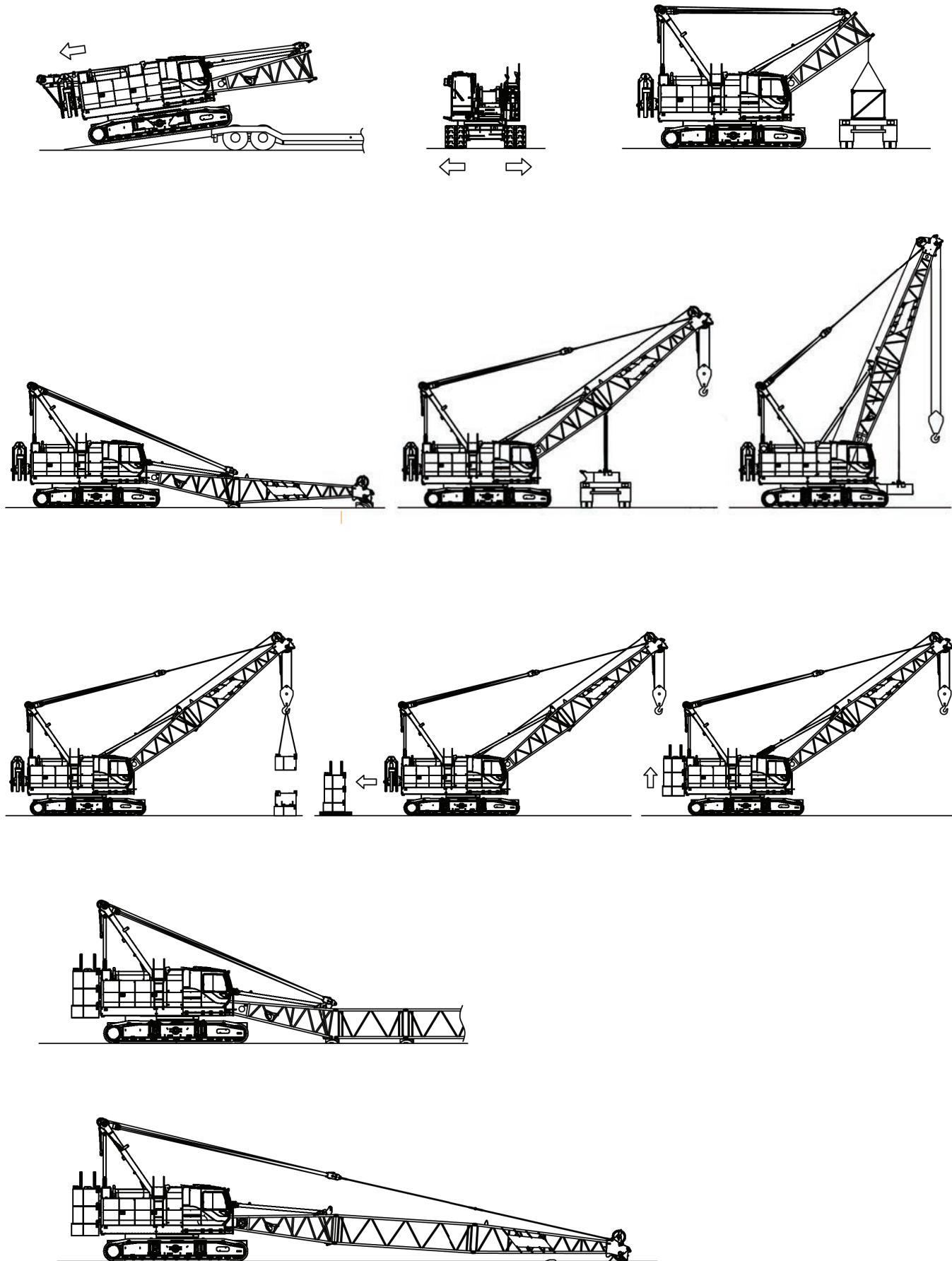
Shipping plan for 150 ft Boom

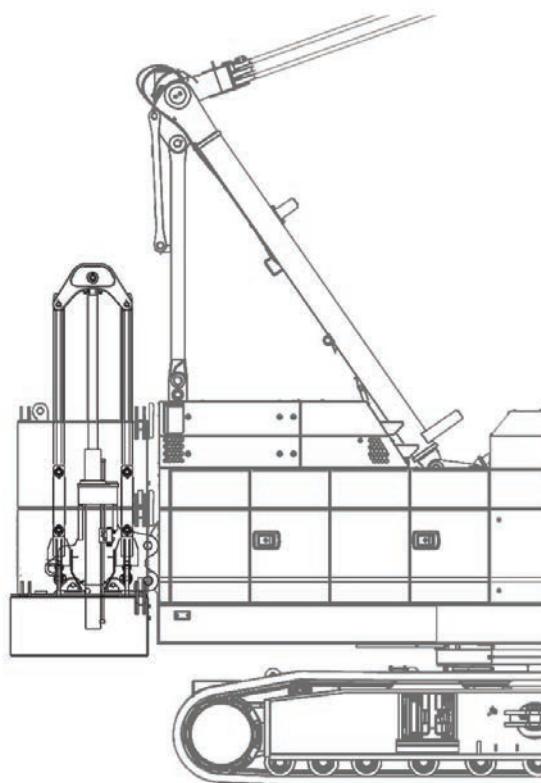
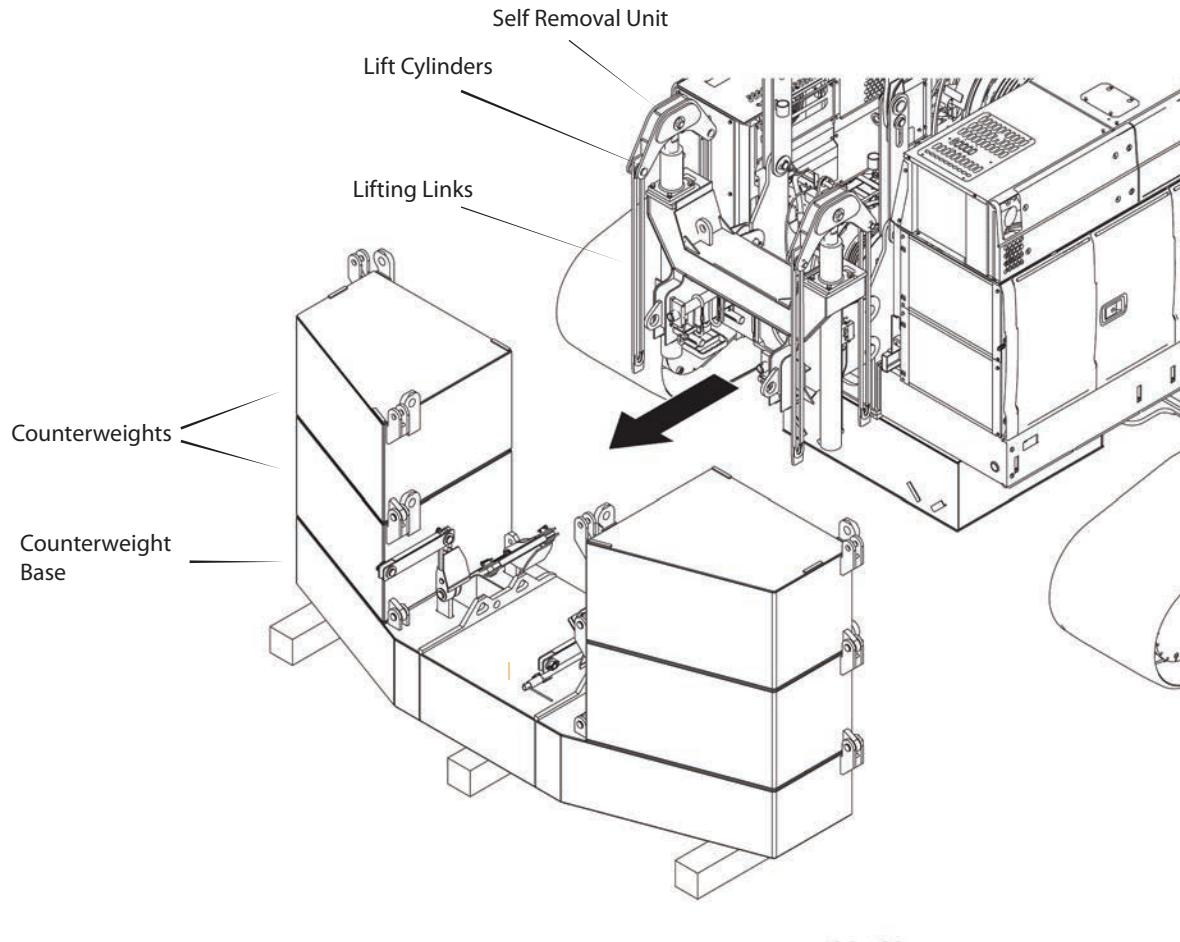
Description of Item	Weight		Trailer Loads			
	lbs	(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	95,800	(43,430)	1			
Counterweight Base	18,300	(8,310)		1		
Counterweight ('L)	12,700	(5,750)			2	
Counterweight ('R)	12,700	(5,750)		1	1	
Carbody Weight	15,900	(7,200)				2
10 ft Insert Boom	680	(310)			1	
20 ft Insert Boom	1,200	(525)		1		
40 ft Insert Boom	2,100	(965)			1	
40 ft Insert Boom (w/ Lug)	2,200	(980)				1
Boom Tip	2,700	(1,205)		1		
Jib Base and Strut	990	(450)				
10 ft Insert Jib	220	(100)				
20 ft Insert Jib	400	(180)				
Jib Tip	620	(280)				
75 Ton Block	3,000	(1,361)		1		
13 Ton Ball	800	(365)		1		
Ladder Assembly	90	(41)				1
Support Box	5,000	(2,268)				1
Approx. Total Shipping Weight		lbs (kg)	95,800 (43,430)	38,700 (17,516)	40,880 (18,525)	39,090 (17,689)

* Third drum is not included. Add 4,200 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.

Trailer #1**Trailer #2****Trailer #3****Trailer #4**

Self-Assembly Procedure

Counterweight Self-Removal Device

Boom and Fixed Jib Arrangement

Boom Arrangement

Boom length ft (m)	Boom arrangement
40 (12.2)	
50 (15.2)	
60 (18.3)	
70 (21.3)	
80 (24.4)	
90 (27.4)	
100 (30.5)	
110 (33.5)	
120 (36.6)	
130 (39.6)	
140 (42.7)	

Fixed Jib Arrangement

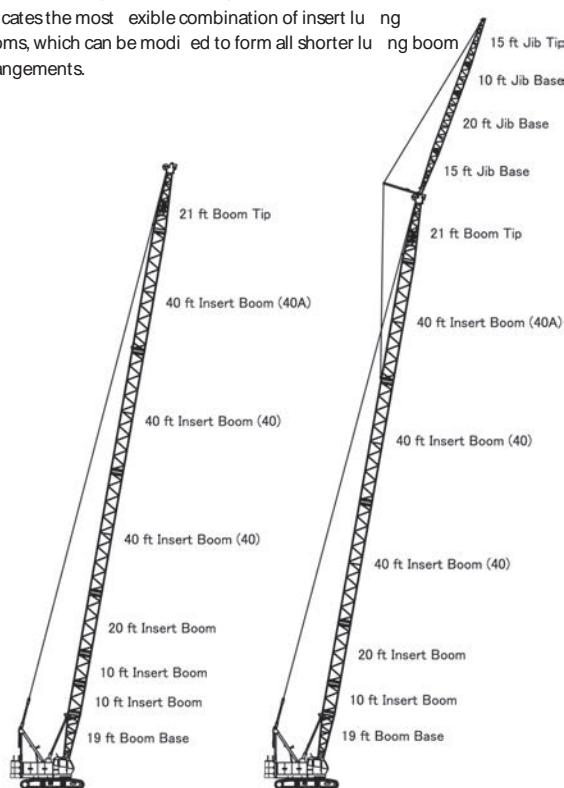
Symbol	Jib Length	Remarks
	15 ft (4.6 m)	Jib Base
	15 ft (4.6 m)	Jib Top
	10 ft (3.0 m)	Insert Jib
	20 ft (6.1 m)	Insert Jib

Boom length ft (m)	Boom arrangement
150 (45.7)	
160 (48.8)	
170 (51.8)	
180 (54.9)	
190 (57.9)	
200 (61.0)	

Symbol	Boom Length	Remarks
	20.0 ft (6.1 m)	Boom Base
	20.0 ft (6.1 m)	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
	40.0 ft (12.2 m)	Insert Boom with lug

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

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



Main Boom - 200 ft (61.0 m)

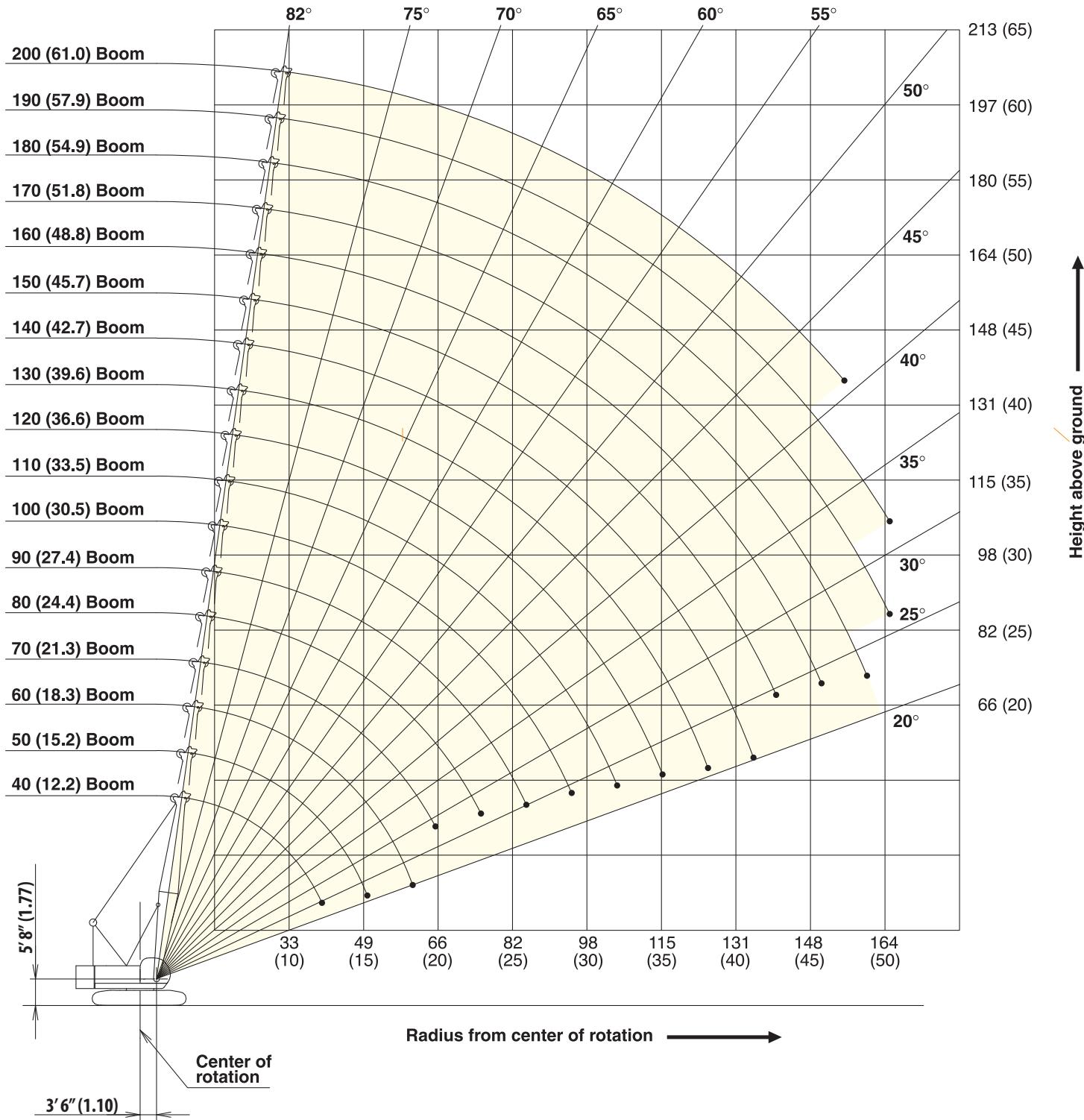
Main Boom - 190 ft (57.9 m)

Fixed Jib - 60 ft (18.3 m)

Working Ranges

Main Boom

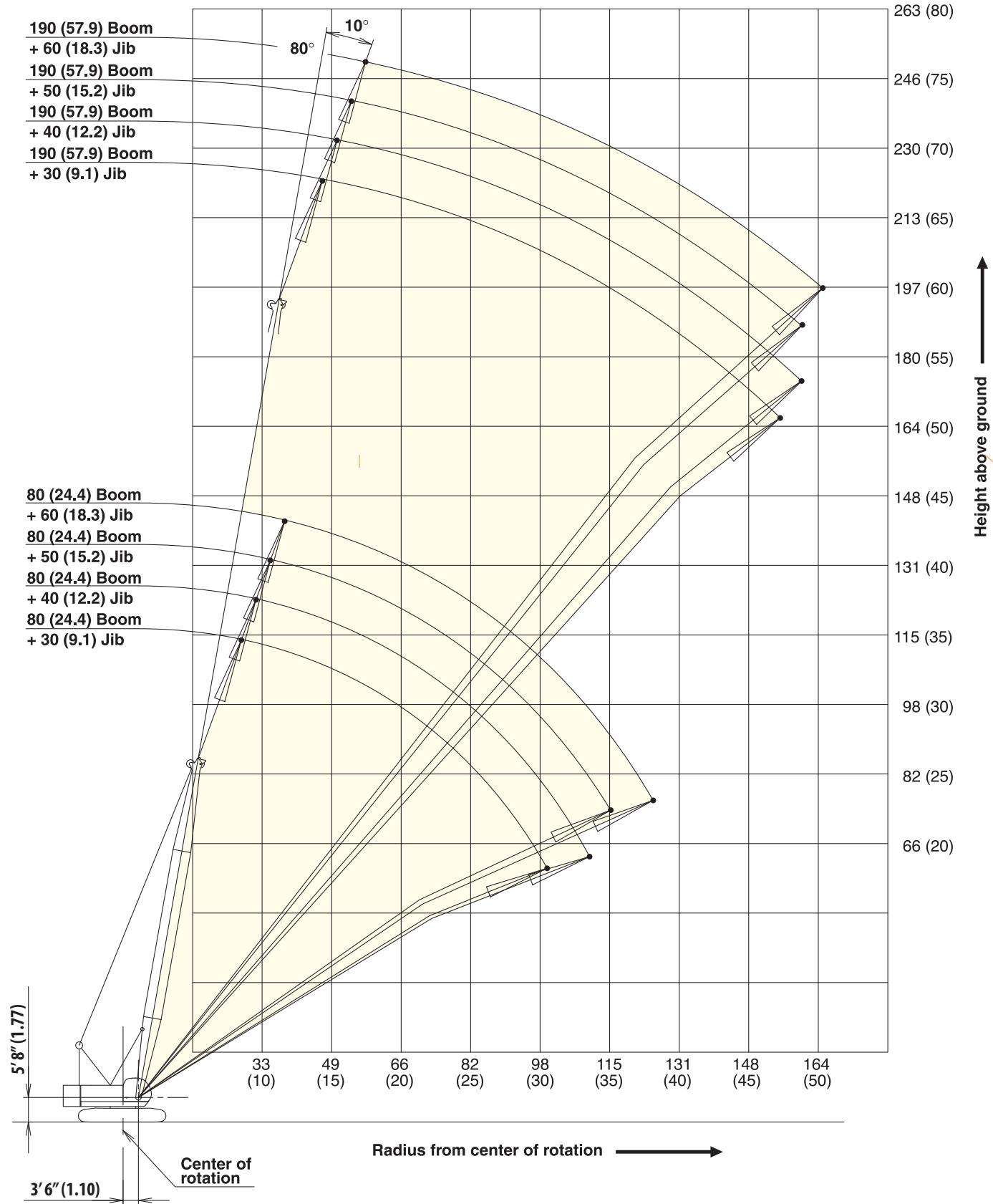
Unit : ft (m)



Working Ranges

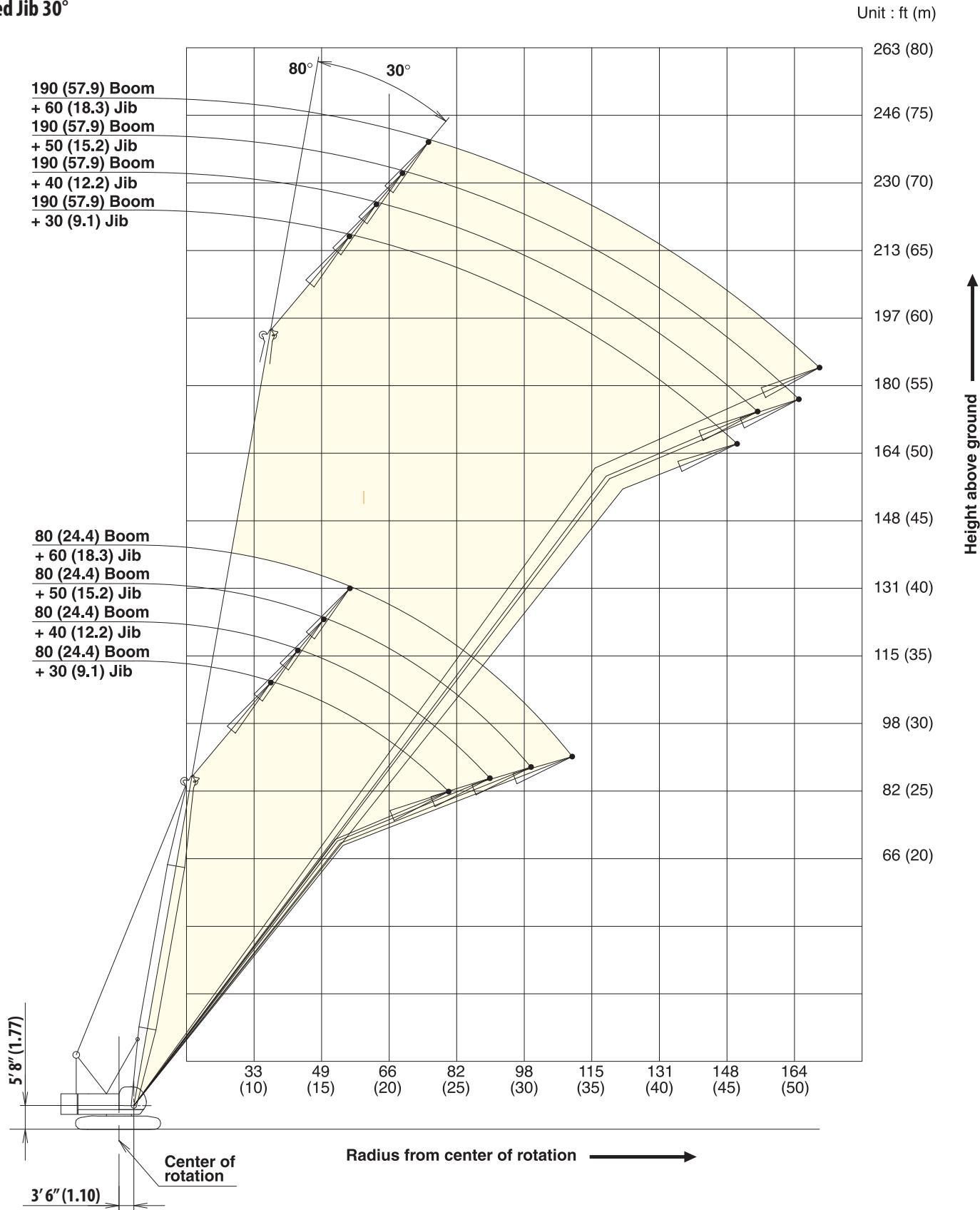
Fixed Jib 10°

Unit : ft (m)



Working Ranges

Fixed Jib 30°



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	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	430	2,500	3,700	5,100	6,700

8. The total load that can be lifted by jib is limited by rated jib loads.
9. Boom lengths for jib mounting are 80 ft (24.4 m) to 190 ft (57.9 m)
10. The total load that can be lifted by the auxiliary sheave is the value for 430 lbs deducted from rated load for the boom (without auxiliary sheave installed); however, the auxiliary sheave rated load should not exceed 24,000 lbs.

11. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
12. The boom should be erected over the front of the crawlers, not laterally. When lifting from or lowering to the ground the boom at length of 190 ft (57.9 m) with jib, the blocks for erections must be placed at the end of the crawlers.
13. Least stable position is over the side.
14. 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)	25,200	50,400	75,600	100,800	126,000

No. of Parts of line	6	7	8
Maximum Loads (lbs)	151,200	176,400	220,000

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
Maximum Loads (lbs)	24,000

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.



Main Boom Lift Capacity

Full Counterweight: 69,100 lbs Cabbody Weight: 31,800

40' Boom			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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
11.0	80.5	220,000 *	12.0	81.2	213,200 *	13.0	81.7	200,400 *	15.0	81.3	151,000 *	16.0	81.6	151,000 *
12.0	79.0	213,300 *	13.0	80.0	200,600 *	14.0	80.7	187,400 *	16.0	80.4	151,000 *	17.0	80.9	149,300 *
13.0	77.5	200,800 *	14.0	78.9	187,800 *	15.0	79.8	175,200 *	17.0	79.6	149,400 *	18.0	80.2	146,500 *
14.0	76.0	188,100 *	15.0	77.7	175,600 *	16.0	78.8	164,800 *	18.0	78.7	146,700 *	19.0	79.5	139,400 *
15.0	74.6	175,900 *	16.0	76.6	165,300 *	17.0	77.8	155,500 *	19.0	77.9	139,800 *	20.0	78.8	131,800
16.0	73.1	165,500 *	17.0	75.4	156,000 *	18.0	76.8	146,900 *	20.0	77.1	132,200	22.0	77.3	115,100
17.0	71.6	156,300 *	18.0	74.2	147,400 *	19.0	75.9	139,800 *	22.0	75.4	115,400	24.0	75.8	101,000
18.0	70.1	147,800 *	19.0	72.9	140,100 *	20.0	74.9	132,200	24.0	73.7	101,300	26.0	74.3	89,200
19.0	68.5	140,500 *	20.0	71.7	132,400	22.0	72.9	115,100	26.0	72.0	89,600	28.0	72.8	80,500
20.0	66.9	132,800	22.0	69.3	115,300	24.0	70.9	100,800	28.0	70.3	80,800	30.0	71.2	72,800
22.0	63.7	115,600	24.0	66.8	101,000	26.0	68.8	89,100	30.0	68.5	73,000	32.0	69.7	66,600
24.0	60.4	101,300	26.0	64.3	89,400	28.0	66.7	80,500	32.0	66.7	67,000	34.0	68.2	61,600
26.0	57.0	89,600	28.0	61.7	80,700	30.0	64.6	72,800	34.0	64.9	62,000	36.0	66.6	57,300
28.0	53.4	80,900	30.0	59.1	73,000	32.0	62.5	66,600	36.0	63.0	57,800	38.0	65.1	53,100
30.0	49.8	73,300	32.0	56.3	67,000	34.0	60.3	61,600	38.0	61.2	53,600	40.0	63.5	49,300
32.0	45.8	67,200	34.0	53.4	62,000	36.0	58.0	57,300	40.0	59.3	49,800	42.0	61.8	46,600
34.0	41.2	61,700	36.0	50.3	57,800	38.0	55.7	53,100	42.0	57.3	46,900	44.0	60.2	43,800
36.0	36.2	56,600	38.0	47.3	53,600	40.0	53.4	49,300	44.0	55.3	44,100	46.0	58.5	41,100
38.0	31.1	51,500	40.0	44.0	49,800	42.0	50.9	46,600	46.0	53.3	41,300	48.0	56.8	39,100
40.0	25.4	45,900 *	42.0	40.4	47,000	44.0	48.3	43,800	48.0	51.2	39,400	50.0	55.1	37,100
			44.0	36.7	44,300	46.0	45.8	41,100	50.0	49.0	37,400	55.0	50.5	32,700
			46.0	32.9	41,500	48.0	42.8	39,200	55.0	43.2	33,200	60.0	45.7	29,200
			48.0	27.6	38,300	50.0	39.9	37,200	60.0	36.9	29,600	65.0	40.4	26,300
			50.0	22.3	35,100	55.0	31.2	32,900	65.0	29.2	26,800	70.0	34.3	24,100
						60.0	20.7	28,600 *				75.0	26.9	22,100
Reeves		8	Reeves		8	Reeves		8	Reeves		6	Reeves		6
90' Boom			100' Boom			110' Boom			120' Boom			130' 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)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
17.0	81.9	125,800 *	19.0	81.6	125,600 *	20.0	81.8	100,800 *	22.0	81.6	98,700 *	24.0	81.3	85,100 *
18.0	81.3	125,800 *	20.0	81.0	123,600 *	22.0	80.8	100,800 *	24.0	80.6	94,200 *	26.0	80.4	83,900 *
19.0	80.7	125,800 *	22.0	79.9	112,200 *	24.0	79.7	96,500 *	26.0	79.6	88,000 *	28.0	79.5	78,200 *
20.0	80.0	124,000 *	24.0	78.7	100,600	26.0	78.6	88,500 *	28.0	78.6	79,900	30.0	78.6	71,900
22.0	78.7	112,500 *	26.0	77.5	88,900	28.0	77.6	80,200	30.0	77.7	72,200	32.0	77.7	65,900
24.0	77.4	100,800	28.0	76.3	80,200	30.0	76.5	72,400	32.0	76.7	66,100	34.0	76.9	60,900
26.0	76.1	89,100	30.0	75.1	72,400	32.0	75.4	66,300	34.0	75.7	61,100	36.0	75.9	56,600
28.0	74.8	80,500	32.0	74.0	66,300	34.0	74.3	61,300	36.0	74.7	56,800	38.0	75.0	52,300
30.0	73.5	72,800	34.0	72.8	61,300	36.0	73.2	57,000	38.0	73.7	52,500	40.0	74.1	48,400
32.0	72.1	66,600	36.0	71.6	57,000	38.0	72.2	52,700	40.0	72.7	48,700	42.0	73.2	45,600
34.0	70.8	61,600	38.0	70.3	52,700	40.0	71.1	48,900	42.0	71.7	45,800	44.0	72.2	42,800
36.0	69.4	57,300	40.0	69.1	48,900	42.0	70.0	46,200	44.0	70.7	43,000	46.0	71.3	40,000
38.0	68.0	53,100	42.0	67.9	46,200	44.0	68.9	43,400	46.0	69.7	40,200	48.0	70.4	38,000
40.0	66.6	49,300	44.0	66.6	43,400	46.0	67.8	40,700	48.0	68.6	38,300	50.0	69.4	36,000
42.0	65.2	46,500	46.0	65.4	40,700	48.0	66.6	38,700	50.0	67.6	36,300	55.0	67.1	31,600
44.0	63.8	43,700	48.0	64.1	38,700	50.0	65.4	36,600	55.0	65.0	32,000	60.0	64.6	28,100
46.0	62.4	40,900	50.0	62.8	36,600	55.0	62.5	32,300	60.0	62.3	28,300	65.0	62.2	25,200
48.0	60.9	38,900	55.0	59.5	32,300	60.0	59.5	28,700	65.0	59.6	25,400	70.0	59.6	22,900
50.0	59.4	36,900	60.0	56.1	28,700	65.0	56.5	25,900	70.0	56.8	23,200	75.0	57.0	20,900
55.0	55.7	32,500	65.0	52.5	25,900	70.0	53.2	23,500	75.0	53.8	21,200	80.0	54.3	19,000
60.0	51.7	29,000	70.0	48.8	23,500	75.0	49.9	21,400	80.0	50.8	19,400	85.0	51.6	17,500
65.0	47.4	26,100	75.0	44.8	21,400	80.0	46.4	19,600	85.0	47.7	17,700	90.0	48.7	16,100
70.0	42.9	23,800	80.0	40.5	19,600	85.0	42.6	18,100	90.0	44.3	16,500	95.0	45.6	15,000
75.0	37.9	21,800	85.0	36.0	18,100	90.0	38.6	16,800	95.0	40.7	15,300	100.0	42.4	14,000
80.0	32.2	20,100	90.0	30.5	16,900	95.0	34.1	15,600	100.0	36.9	14,200	110.0	35.4	12,100
85.0	25.7	18,600	95.0	24.0	15,800	100.0	29.1	14,600	110.0	27.8	12,600	120.0	26.6	10,800
						105.0	23.2	13,770	115.0	22.2	11,840	125.0	21.3	10,230
Reeves		5	Reeves		5	Reeves		4	Reeves		4	Reeves		4

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 20.



Main Boom Lift Capacity

Full Counterweight: 69,100 lbs Carbody Weight: 31,800

140' Boom			150' Boom			160' Boom			170' Boom			180' Boom			
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
24.0	81.9	72,900 *	26.0	81.7	62,200 *	28.0	81.5	50,200 *	30.0	81.3	44,500 *	30.0	81.8	39,300 *	
26.0	81.1	71,800 *	28.0	80.9	61,300 *	30.0	80.8	50,100 *	32.0	80.7	43,900 *	32.0	81.2	38,800 *	
28.0	80.3	70,800 *	30.0	80.1	60,400 *	32.0	80.1	49,700 *	34.0	80.0	43,200 *	34.0	80.5	38,200 *	
30.0	79.4	69,000 *	32.0	79.4	59,400 *	34.0	79.4	49,200 *	36.0	79.3	42,500 *	36.0	79.9	37,600 *	
32.0	78.6	64,700 *	34.0	78.6	57,200 *	36.0	78.6	48,500 *	38.0	78.6	41,900 *	38.0	79.2	37,000 *	
34.0	77.8	60,500	36.0	77.8	54,100 *	38.0	77.9	47,800 *	40.0	77.9	41,200 *	40.0	78.6	36,400 *	
36.0	76.9	56,200	38.0	77.0	51,000 *	40.0	77.2	46,600 *	42.0	77.2	40,600 *	42.0	77.9	35,800 *	
38.0	76.1	52,000	40.0	76.3	48,000	42.0	76.4	44,300 *	44.0	76.5	40,000 *	44.0	77.2	35,100 *	
40.0	75.2	48,200	42.0	75.5	45,200	44.0	75.6	42,100 *	46.0	75.8	39,300 *	46.0	76.6	34,500 *	
42.0	74.4	45,400	44.0	74.7	42,400	46.0	74.9	39,800	48.0	75.1	37,400 *	48.0	75.9	33,900 *	
44.0	73.5	42,600	46.0	73.9	39,600	48.0	74.1	37,800	50.0	74.4	35,400 *	50.0	75.3	33,300 *	
46.0	72.7	39,800	48.0	73.1	37,500	50.0	73.4	35,800	55.0	72.6	31,200	55.0	73.7	30,800 *	
48.0	71.8	37,800	50.0	72.3	35,500	55.0	71.5	31,400	60.0	70.9	27,600	60.0	72.0	27,400	
50.0	71.0	35,800	55.0	70.3	31,200	60.0	69.6	27,800	65.0	69.1	24,600	65.0	70.3	24,400	
55.0	68.8	31,400	60.0	68.2	27,600	65.0	67.7	25,000	70.0	67.3	22,300	70.0	68.6	21,900	
60.0	66.6	27,800	65.0	66.2	24,800	70.0	65.8	22,600	75.0	65.4	20,300	75.0	66.9	19,900	
65.0	64.3	25,000	70.0	64.0	22,400	75.0	63.8	20,500	80.0	63.5	18,500	80.0	65.2	18,100	
70.0	62.0	22,600	75.0	61.9	20,300	80.0	61.8	18,700	85.0	61.6	16,800	85.0	63.4	16,600	
75.0	59.7	20,500	80.0	59.6	18,500	85.0	59.7	17,000	90.0	59.7	15,400	90.0	61.6	15,200	
80.0	57.3	18,700	85.0	57.4	17,000	90.0	57.6	15,700	95.0	57.8	14,300	95.0	59.8	14,000	
85.0	54.8	17,200	90.0	55.2	15,700	95.0	55.4	14,500	100.0	55.8	13,300	100.0	57.9	12,900	
90.0	52.2	15,900	95.0	52.8	14,400	100.0	53.2	13,500	110.0	51.5	11,500	110.0	54.0	11,100	
95.0	49.5	14,600	100.0	50.3	13,400	110.0	48.6	11,700	120.0	47.0	9,800	120.0	49.9	9,600	
100.0	46.8	13,600	110.0	45.1	11,700	120.0	43.6	10,100	130.0	42.2	8,700	130.0	45.6	8,500	
110.0	40.8	11,900	120.0	39.3	10,300	130.0	38.1	8,900	140.0	36.8	7,700	140.0	40.9	7,400	
120.0	34.0	10,300	130.0	32.8	8,900	140.0	31.6	7,900	150.0	30.5	6,800	150.0	35.7	6,500	
130.0	25.7	9,200	140.0	24.3	8,000	150.0	23.7	7,100	160.0	23.2	5,900	160.0	29.7	5,600	
135.0	20.5	8,830							165.0	26.5				5,100	
Reeves		4	Reeves		4	Reeves		2	Reeves		2	Reeves		2	
190' Boom			200' Boom												
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)										
32.0	81.6	34,400 *	34.0	81.5	30,300 *										
34.0	81.0	33,800 *	36.0	80.9	29,700 *										
36.0	80.4	33,300 *	38.0	80.3	29,200 *										
38.0	79.8	32,700 *	40.0	79.7	28,700 *										
40.0	79.2	32,200 *	42.0	79.1	28,200 *										
42.0	78.6	31,700 *	44.0	78.6	27,700 *										
44.0	78.0	31,100 *	46.0	78.0	27,300 *										
46.0	77.4	30,600 *	48.0	77.4	26,800 *										
48.0	76.7	30,100 *	50.0	76.8	26,300 *										
50.0	76.1	29,600 *	55.0	75.3	24,900 *										
55.0	74.5	28,100 *	60.0	73.8	23,200 *										
60.0	73.0	26,200 *	65.0	72.4	21,500 *										
65.0	71.4	24,000 *	70.0	70.9	20,000 *										
70.0	69.8	21,800	75.0	69.3	18,500 *										
75.0	68.2	19,900	80.0	67.8	17,100 *										
80.0	66.5	18,000	85.0	66.2	15,900 *										
85.0	64.9	16,400	90.0	64.6	14,700										
90.0	63.2	15,000	95.0	63.0	13,500										
95.0	61.5	13,900	100.0	61.4	12,400										
100.0	59.7	12,900	110.0	58.1	10,600										
110.0	56.2	11,000	120.0	54.6	9,200										
120.0	52.5	9,400	130.0	51.1	7,800										
130.0	48.5	8,200	140.0	47.2	6,500										
140.0	44.3	7,200	150.0	43.1	5,200 *										
150.0	39.7	6,300	155.0	41.0	4,650 *										
160.0	34.8	5,300													
165.0	32.1	4,650													
Reeves		2	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 20.



Fixed Jib Lift Capacity

Full Counterweight: 69,100 lbs Carbody Weight: 31,800

80' Boom																									
30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib							
Offset Angle (deg.)						Offset Angle (deg.)						Offset Angle (deg.)						Offset Angle (deg.)							
10			30			10			30			10			30			10			30				
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)		
30.0	79.3	24,000*				34.0	79.3	24,000*				38.0	79.3	20,000*				40.0	79.8	18,000*					
32.0	78.0	24,000*				36.0	78.3	24,000*				40.0	78.4	20,000*				45.0	77.7	18,000*					
34.0	77.0	24,000*				38.0	77.4	24,000*				45.0	76.1	20,000*				50.0	75.6	17,850*					
36.0	75.9	24,000*				40.0	76.4	24,000*				50.0	73.8	20,000*				55.0	73.3	16,180*					
38.0	74.9	24,000*	38.0	79.6	21,000*	45.0	73.9	24,000*	45.0	79.7	15,360*	55.0	71.3	18,560*	55.0	78.0	11,080*	60.0	71.2	14,850*	60.0	78.7	8,950*		
40.0	73.8	24,000*	40.0	78.5	21,000*	50.0	71.4	24,000*	50.0	77.1	14,480*	60.0	68.9	17,080*	60.0	75.5	10,490*	65.0	69.0	13,730*	65.0	76.4	8,480*		
45.0	71.1	24,000*	45.0	75.7	20,700*	55.0	68.7	22,480*	55.0	74.3	13,640*	65.0	66.5	15,800*	65.0	73.0	9,980*	70.0	66.7	12,760*	70.0	74.1	8,060*		
50.0	68.3	24,000*	50.0	72.8	19,510*	60.0	66.1	20,700*	60.0	71.6	12,980*	70.0	64.0	14,720*	70.0	70.4	9,540*	75.0	64.3	11,860*	75.0	71.5	7,670*		
55.0	65.3	24,000*	55.0	69.7	18,380*	65.0	63.4	19,180*	65.0	68.8	12,360*	75.0	61.3	13,710*	75.0	67.6	9,100*	80.0	61.9	11,130*	80.0	69.0	7,340*		
60.0	62.4	24,000*	60.0	66.7	17,500*	70.0	60.6	17,870*	70.0	65.9	11,830*	80.0	58.7	12,870*	80.0	64.8	8,730*	85.0	59.5	10,470*	85.0	66.5	7,030*		
65.0	59.3	22,920	65.0	63.6	16,710*	75.0	57.6	16,660*	75.0	62.7	11,350*	85.0	56.0	12,140*	85.0	62.0	8,420*	90.0	57.0	9,870*	90.0	63.9	6,760*		
70.0	56.2	20,810	70.0	60.3	16,020*	80.0	54.6	15,670*	80.0	59.6	10,930*	90.0	53.2	11,500*	90.0	59.0	8,130*	95.0	54.2	9,320*	95.0	60.9	6,500*		
75.0	52.8	18,910	75.0	56.7	15,380*	85.0	51.5	14,810*	85.0	56.3	10,560*	95.0	50.0	10,890*	95.0	55.6	7,840*	100.0	51.5	8,860*	100.0	58.1	6,280*		
80.0	49.3	17,370	80.0	53.1	14,850*	90.0	48.3	14,040*	90.0	52.9	10,250*	100.0	46.9	10,360*	100.0	52.3	7,620*	105.0	48.7	8,440*	105.0	55.0	6,100*		
85.0	45.7	16,020				95.0	44.6	13,310*				105.0	43.6	9,890*				110.0	45.7	8,060*	110.0	51.8	5,930*		
90.0	41.8	14,850				100.0	40.8	12,690*				110.0	40.0	9,470*				115.0	42.3	7,690*					
95.0	37.2	13,750				105.0	36.7	12,120				115.0	35.8	9,080*				120.0	38.8	7,380*					
100.0	32.4	12,830				110.0	32.1	11,350*										125.0	35.1	7,120*					
Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	

90' Boom																									
30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib							
Offset Angle (deg.)						Offset Angle (deg.)						Offset Angle (deg.)						Offset Angle (deg.)							
10			30			10			30			10			30			10			30				
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)		
32.0	79.1	24,000*				36.0	79.3	24,000*				38.0	80.0	20,000*				45.0	78.6	18,000*					
34.0	78.1	24,000*				38.0	78.4	24,000*				40.0	79.2	20,000*				50.0	76.6	18,000*					
36.0	77.1	24,000*				40.0	77.5	24,000*				45.0	77.1	20,000*				55.0	74.5	16,970*					
38.0	76.2	24,000*				45.0	75.2	24,000*				50.0	75.0	20,000*				60.0	72.5	15,630*	60.0	79.5	9,100*		
40.0	75.2	24,000*	40.0	79.5	21,000*	50.0	72.9	24,000*	50.0	78.2	14,810*	55.0	72.7	19,550*	55.0	78.9	11,300*	65.0	70.5	14,460*	65.0	77.4	8,660*		
45.0	72.7	24,000*	45.0	77.0	21,000*	55.0	70.4	23,890*	55.0	75.6	14,020*	60.0	70.5	18,000*	60.0	76.7	10,730*	70.0	68.4	13,470*	70.0	75.3	8,240*		
50.0	70.2	24,000*	50.0	74.4	20,100*	60.0	68.1	22,020*	60.0	73.2	13,330*	65.0	68.3	16,730*	65.0	74.4	10,250*	75.0	66.1	12,520*	75.0	72.9	7,870*		
55.0	67.5	24,000*	55.0	71.6	19,020*	65.0	65.6	20,410*	65.0	70.7	12,760*	70.0	66.1	15,580*	70.0	72.0	9,780*	80.0	64.0	11,770*	80.0	70.7	7,530*		
60.0	64.9	24,000*	60.0	68.9	18,120*	70.0	63.2	19,040*	70.0	68.1	12,230*	75.0	63.6	14,520*	75.0	69.5	9,360*	85.0	61.8	11,080*	85.0	68.4	7,230*		
65.0	62.2	22,660	65.0	66.1	17,320*	75.0	60.4	17,760*	75.0	65.3	11,720*	80.0	61.3	13,660*	80.0	67.0	8,990*	90.0	59.5	10,470*	90.0	66.0	6,960*		
70.0	59.4	20,540	70.0	63.3	16,620*	80.0	57.8	16,730*	80.0	62.5	11,300*	85.0	58.8	12,890*	85.0	64.5	8,680*	95.0	57.1	9,890*	95.0	63.4	6,700*		
75.0	56.4	18,620	75.0	60.2	15,960*	85.0	55.1	15,800*	85.0	59.7	10,930*	90.0	56.3	12,210*	90.0	61.8	8,370*	100.0	54.7	9,390*	100.0	60.9	6,480*		
80.0	53.5	17,080	80.0	57.1	15,430*	90.0	52.3	14,740	90.0	56.7	10,580*	95.0	53.6	11,570*	95.0	58.9	8,110*	105.0	52.2	8,950*	105.0	58.3	6,280*		
85.0	50.4	15,760	85.0	53.9	14,940*	95.0	49.1	13,620	95.0	53.4	10,270*	100.0	50.9	11,020*	100.0	56.1	7,870*	110.0	49.6	8,550*	110.0	55.5	6,100*		
90.0	47.1	14,570				100.0	46.0	12,690				105.0	48.0	10,530*	105.0	53.1	7,640*	115.0	46.7	8,150*	115.0	52.4	5,930*		
95.0	43.4	13,470				105.0	42.7	11,860				110.0	45.1	10,070*				120.0	43.8	7,820*					
100.0	39.7	12,540				110.0	39.1	11,080				115.0	41.7	9,650*				125.0	40.7	7,530*					
105.0	35.6	11,700				115.0	35.0	10,360				120.0	38.2	9,300*				130.0	37.4	7,270*					
Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	

Fixed Jib Lift Capacity

Full Counterweight: 69,100 lbs Carbody Weight: 31,800

100' Boom																	
30 ft Jib				40 ft Jib				50 ft Jib				60 ft Jib					
Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)		
10		30		10		30		10		30		10		30			
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
32.0	79.9	24,000*				36.0	80.0	24,000*				40.0	79.9	20,000*			
34.0	79.0	24,000*				38.0	79.2	24,000*				45.0	78.0	20,000*			
36.0	78.1	24,000*				40.0	78.4	24,000*				50.0	76.0	20,000*			
38.0	77.2	24,000*				45.0	76.3	24,000*				55.0	73.9	20,000*	55.0	75.5	17,720*
40.0	76.4	24,000*				50.0	74.2	24,000*	50.0	79.1	15,100*	60.0	71.9	18,930*	60.0	77.7	10,950*
45.0	74.1	24,000*	45.0	78.0	21,000*	55.0	71.9	24,000*	55.0	76.7	14,320*	65.0	69.9	17,590*	65.0	75.5	10,470*
50.0	71.8	24,000*	50.0	75.7	20,650*	60.0	69.7	23,280*	60.0	74.5	13,660*	70.0	67.8	16,420*	70.0	73.4	10,030*
55.0	69.3	24,000*	55.0	73.2	19,570*	65.0	67.5	21,620*	65.0	72.2	13,090*	75.0	65.6	15,340*	75.0	71.1	9,610*
60.0	67.0	24,000*	60.0	70.7	18,690*	70.0	65.3	20,190*	70.0	69.9	12,560*	80.0	63.4	14,440*	80.0	68.8	9,230*
65.0	64.5	22,440	65.0	68.2	17,900*	75.0	62.8	18,620	75.0	67.3	12,050*	85.0	61.2	13,640*	85.0	66.5	8,920*
70.0	62.1	20,320	70.0	65.7	17,190*	80.0	60.4	17,060	80.0	64.9	11,640*	90.0	59.0	12,910*	90.0	64.2	8,610*
75.0	59.4	18,400	75.0	62.9	16,510*	85.0	58.0	15,710	85.0	62.4	11,260*	95.0	56.5	12,230*	95.0	61.6	8,330*
80.0	56.7	16,860	80.0	60.2	15,960*	90.0	55.5	14,500	90.0	59.8	10,910*	100.0	54.1	11,660*	100.0	59.1	8,090*
85.0	54.0	15,520	85.0	57.4	15,450*	95.0	52.8	13,380	95.0	56.9	10,580*	105.0	51.6	11,150*	105.0	56.4	7,870*
90.0	51.2	14,320	90.0	54.5	14,570	100.0	50.1	12,450	100.0	54.0	10,310*	110.0	49.0	10,670*	110.0	53.7	7,690*
95.0	48.1	13,220	95.0	51.2	13,420	105.0	47.2	11,590				115.0	46.1	10,200*			
100.0	45.0	12,270				110.0	44.3	10,840				120.0	43.2	9,590			
105.0	41.7	11,460				115.0	40.9	10,110				125.0	40.2	9,010			
110.0	38.1	10,690				120.0	37.4	9,470				130.0	36.8	8,480			
115.0	34.0	9,980				125.0	33.7	8,860*				135.0	33.2	7,800*			
Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1

110' Boom																	
30 ft Jib				40 ft Jib				50 ft Jib				60 ft Jib					
Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)			Offset Angle (deg.)		
10		30		10		30		10		30		10		30			
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
34.0	79.8	24,000*				38.0	79.9	24,000*				45.0	78.8	20,000*			
36.0	79.0	24,000*				40.0	79.2	24,000*				50.0	76.9	20,000*			
38.0	78.2	24,000*				45.0	77.2	24,000*				55.0	75.0	20,000*			
40.0	77.3	24,000*				50.0	75.3	24,000*	50.0	79.9	15,360*	60.0	73.1	19,810*	60.0	78.5	11,150*
45.0	75.3	24,000*	45.0	79.0	21,000*	55.0	73.2	24,000*	55.0	77.7	14,610*	65.0	71.2	18,430*	65.0	76.5	10,670*
50.0	73.2	24,000*	50.0	76.8	21,000*	60.0	71.2	24,000*	60.0	75.6	13,970*	70.0	69.3	17,230*	70.0	74.6	10,250*
55.0	70.9	24,000*	55.0	74.5	20,100*	65.0	69.1	22,500	65.0	73.5	13,400*	75.0	67.2	16,110*	75.0	72.4	9,830*
60.0	68.7	24,000*	60.0	72.2	19,220*	70.0	67.1	20,370	70.0	71.4	12,870*	80.0	65.2	15,160*	80.0	70.4	9,470*
65.0	66.5	22,260	65.0	70.0	18,430*	75.0	64.8	18,450	75.0	69.1	12,380*	85.0	63.2	14,350*	85.0	68.3	9,140*
70.0	64.3	20,150	70.0	67.7	17,700*	80.0	62.7	16,880	80.0	66.9	11,940*	90.0	61.2	13,600*	90.0	66.1	8,840*
75.0	61.8	18,230	75.0	65.1	17,040*	85.0	60.5	15,520	85.0	64.6	11,570*	95.0	58.9	12,890*	95.0	63.8	8,550*
80.0	59.4	16,680	80.0	62.7	16,460*	90.0	58.2	14,320	90.0	62.2	11,220*	100.0	56.7	12,300*	100.0	61.5	8,310*
85.0	57.0	15,340	85.0	60.2	15,650	95.0	55.7	13,200	95.0	59.7	10,890*	105.0	54.5	11,530	105.0	59.2	8,090*
90.0	54.5	14,150	90.0	57.6	14,440	100.0	53.3	12,250	100.0	57.1	10,600*	110.0	52.2	10,780	110.0	56.7	7,890*
95.0	51.8	13,020	95.0	54.8	13,270	105.0	50.8	11,410	105.0	54.5	10,330*	115.0	49.6	10,030	115.0	54.0	7,690*
100.0	49.1	12,100	100.0	52.0	12,320	110.0	48.2	10,640	110.0	51.8	10,110*	120.0	47.1	9,390			
105.0	46.3	11,260				115.0	45.3	9,920				125.0	44.5	8,810			
110.0	43.3	10,510				120.0	42.5	9,300				130.0	41.8	8,280			
115.0	39.9	9,780				125.0	39.4	8,730				135.0	38.8	7,800			
120.0	36.5	9,170				130.0	36.1	8,200				140.0	35.4	7,250*			
125.0	32.7	8,420*				135.0	32.5	7,420*									
Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1

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

Consult the Operator's Manual for detailed information on safe operation and maintenance.



Fixed Jib Lift Capacity

Full Counterweight: 69,100 lbs Carbody Weight: 31,800

120' Boom																			
30 ft Jib					40 ft Jib					50 ft Jib					60 ft Jib				
Offset Angle (deg.)					Offset Angle (deg.)					Offset Angle (deg.)					Offset Angle (deg.)				
10					10					10					10				
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	
36.0	79.7	24,000*				40.0	79.9	24,000*		45.0	79.5	20,000*			50.0	78.9	18,000*		
38.0	79.0	24,000*				45.0	78.1	24,000*		50.0	77.7	20,000*			55.0	77.2	18,000*		
40.0	78.2	24,000*				50.0	76.2	24,000*		55.0	75.9	20,000*			60.0	75.5	17,720*		
45.0	76.3	24,000*	45.0	79.7	21,000*	55.0	74.3	24,000*	55.0	78.5	14,880*	60.0	74.2	20,000*	60.0	79.2	11,330*	65.0	73.9
50.0	74.3	24,000*	50.0	77.7	21,000*	60.0	72.4	24,000*	60.0	76.6	14,240*	65.0	72.4	19,240*	65.0	77.4	10,860*	70.0	72.2
55.0	72.2	24,000*	55.0	75.6	20,560*	65.0	70.5	22,240	65.0	74.7	13,690*	70.0	70.6	18,010*	70.0	75.6	10,420*	75.0	70.4
60.0	70.2	24,000*	60.0	73.5	19,680*	70.0	68.6	20,100	70.0	72.7	13,160*	75.0	68.7	16,840*	75.0	73.6	10,030*	80.0	68.7
65.0	68.2	21,970	65.0	71.4	18,910*	75.0	66.5	18,160	75.0	70.6	12,670*	80.0	66.8	15,890*	80.0	71.7	9,670*	85.0	67.0
70.0	66.1	19,860	70.0	69.3	18,180*	80.0	64.5	16,620	80.0	68.5	12,250*	85.0	65.0	15,030*	85.0	69.7	9,340*	90.0	65.2
75.0	63.9	17,940	75.0	67.0	17,500*	85.0	62.5	15,250	85.0	66.4	11,860*	90.0	63.1	14,190	90.0	67.8	9,060*	95.0	63.3
80.0	61.7	16,400	80.0	64.8	16,790	90.0	60.5	14,040	90.0	64.3	11,500*	95.0	61.0	13,050	95.0	65.6	8,770*	100.0	61.5
85.0	59.5	15,050	85.0	62.6	15,410	95.0	58.2	12,910	95.0	62.0	11,170*	100.0	59.0	12,100	100.0	63.6	8,500*	105.0	59.6
90.0	57.3	13,860	90.0	60.2	14,170	100.0	56.0	11,970	100.0	59.7	10,860*	105.0	57.0	11,260	105.0	61.4	8,280*	110.0	57.7
95.0	54.8	12,740	95.0	57.7	13,020	105.0	53.8	11,130	105.0	57.4	10,600*	110.0	54.9	10,490	110.0	59.3	8,060*	115.0	55.6
100.0	52.4	11,790	100.0	55.2	12,050	110.0	51.5	10,360	110.0	55.0	10,360*	115.0	52.6	9,740	115.0	56.8	7,870*	120.0	53.6
105.0	49.9	10,950	105.0	52.6	11,170	115.0	48.9	9,630	115.0	52.3	9,870	120.0	50.4	9,100	120.0	54.5	7,690*	125.0	51.5
110.0	47.3	10,200				120.0	46.5	8,990				125.0	48.1	8,530	125.0	52.1	7,530*	130.0	49.3
115.0	44.4	9,470				125.0	43.8	8,420				130.0	45.6	8,000				135.0	47.1
120.0	41.6	8,860				130.0	41.1	7,890				135.0	43.1	7,510				140.0	44.6
125.0	38.5	8,280				135.0	38.1	7,420				140.0	40.3	7,030				145.0	42.2
130.0	35.2	7,690*				140.0	34.7	6,700*				145.0	37.4	6,540*				150.0	39.6
135.0	31.6	6,830*										150.0	34.3	5,880*				155.0	36.8
																		160.0	33.6
Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1

130' Boom																			
30 ft Jib					40 ft Jib					50 ft Jib					60 ft Jib				
Offset Angle (deg.)					Offset Angle (deg.)					Offset Angle (deg.)					Offset Angle (deg.)				
10					10					10					10				
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	
38.0	79.7	24,000*				45.0	78.8	24,000*		45.0	80.0	20,000*			50.0	79.5	18,000*		
40.0	79.0	24,000*				50.0	77.1	24,000*		50.0	78.4	20,000*			55.0	77.9	18,000*		
45.0	77.1	24,000*				55.0	75.2	24,000*	55.0	79.3	15,100*	55.0	76.7	20,000*			60.0	76.3	18,000*
50.0	75.3	24,000*	50.0	78.5	21,000*	60.0	73.5	24,000*	60.0	77.5	14,500*	60.0	75.1	20,000*	60.0	79.9	11,480*	65.0	74.8
55.0	73.4	24,000*	55.0	76.5	20,980*	65.0	71.7	22,000	65.0	75.7	13,930*	65.0	73.4	20,000*	65.0	78.2	11,020*	70.0	73.2
60.0	71.5	24,000*	60.0	74.6	20,120*	70.0	69.9	19,860	70.0	73.8	13,420*	70.0	71.7	18,760*	70.0	76.5	10,620*	75.0	71.5
65.0	69.6	21,730	65.0	72.7	19,350*	75.0	68.0	17,920	75.0	71.8	12,940*	75.0	69.9	17,570*	75.0	74.6	10,200*	80.0	69.9
70.0	67.7	19,620	70.0	70.7	18,650*	80.0	66.2	16,350	80.0	69.9	12,520*	80.0	68.2	16,530	80.0	72.8	9,850*	85.0	68.3
75.0	65.6	17,680	75.0	68.6	17,960*	85.0	64.3	14,990	85.0	68.0	12,140*	85.0	66.5	15,160	85.0	71.0	9,540*	90.0	66.6
80.0	63.7	16,130	80.0	66.6	16,600	90.0	62.4	13,800	90.0	66.1	11,770*	90.0	64.7	13,950	90.0	69.2	9,230*	95.0	64.8
85.0	61.6	14,790	85.0	64.5	15,180	95.0	60.3	11,440*	95.0	62.8	12,800	95.0	67.2	8,950*	100.0	63.1	11,410*	105.0	68.3
90.0	59.6	13,600	90.0	62.4	13,950	100.0	58.3	11,700	100.0	61.9	11,130*	100.0	61.0	11,860	100.0	65.3	8,700*	105.0	61.4
95.0	57.3	12,470	95.0	60.1	12,780	105.0	56.3	10,860	105.0	59.8	10,860*	105.0	59.1	11,000	105.0	63.4	8,480*	110.0	59.6
100.0	55.2	11,530	100.0	57.9	11,810	110.0	54.2	10,090	110.0	57.6	10,420	110.0	57.2	10,220	110.0	61.4	8,260*	115.0	57.7
105.0	52.9	10,690	105.0	55.6	10,950	115.0	51.9	9,360	115.0	55.2	9,650	115.0	55.1	9,470	115.0	59.2	8,040*	120.0	55.9
110.0	50.6	9,940	110.0	53.2	10,160	120.0	49.7	8,730	120.0	52.9	8,990	120.0	53.1	8,840	120.0	57.1	7,870*	125.0	54.0
115.0	48.1	9,210				125.0	47.4	8,150				125.0	51.0	8,260	125.0	54.9	7,710*	130.0	52.0
120.0	45.6	8,570				130.0	45.0	7,620				130.0	48.8	7,730	130.0	52.6	7,560*	135.0	50.0
125.0	43.0	8,020				135.0	42.5	7,140				135.0	46.6	7,250				140.0	47.8
130.0	40.2	7,490				140.0	39.6	6,670				140.0	44.1	6,760				145.0	45.6
135.0	37.3	6,940*				145.0	36.8	6,040*				145.0	41.7	6,340				150.0	43.3
140.0	33.9	6,150*				150.0	33.7	5,370*				150.0	39.1	5,860*				155.0	41.0
												155.0	36.3	5,260*				160.0	38.3
Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1

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



Fixed Jib Lift Capacity

Full Counterweight: 69,100 lbs Carbody Weight: 31,800

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



Fixed Jib Lift Capacity

Full Counterweight: 69,100 lbs Carbody Weight: 31,800

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



Fixed Jib Lift Capacity

Full Counterweight: 69,100 lbs Carbody Weight: 31,800

180' Boom									30 ft Jib									40 ft Jib									50 ft Jib									60 ft Jib								
Offset Angle (deg.)									Offset Angle (deg.)									Offset Angle (deg.)									Offset Angle (deg.)																	
10			30			10			30			10			30			10			30			10			30																	
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)															
50.0	78.9	22,200*				55.0	78.7	21,670*				55.0	79.7	20,000*				60.0	79.3	18,000*																								
55.0	77.4	21,750*	55.0	79.9	21,000*	60.0	77.3	21,270*				60.0	78.4	20,000*				65.0	78.0	18,000*																								
60.0	76.0	21,360*	60.0	78.5	20,870*	65.0	76.0	20,870*	65.0	79.1	14,940*	65.0	77.1	20,000*				70.0	76.8	18,000*																								
65.0	74.6	20,700	65.0	77.1	20,500*	70.0	74.7	18,840	70.0	77.7	14,480*	70.0	75.9	19,060	70.0	79.6	11,300*	75.0	75.5	17,230	75.0	79.9	8,990*																					
70.0	73.2	18,560	70.0	75.6	19,310	75.0	73.2	16,880	75.0	76.3	14,020*	75.0	74.5	17,100	75.0	78.2	10,930*	80.0	74.3	15,650	80.0	78.6	8,700*																					
75.0	71.7	16,600	75.0	74.1	17,300	80.0	71.9	15,290	80.0	74.9	13,620*	80.0	73.2	15,490	80.0	76.9	10,600*	85.0	73.0	14,240	85.0	77.3	8,460*																					
80.0	70.3	15,030	80.0	72.6	15,670	85.0	70.5	13,910	85.0	73.5	13,240*	85.0	71.9	14,100	85.0	75.5	10,310*	90.0	71.8	13,020	90.0	76.0	8,200*																					
85.0	68.8	13,660	85.0	71.2	14,240	90.0	69.1	12,690	90.0	72.1	12,890*	90.0	70.6	12,890	90.0	74.2	10,030*	95.0	70.4	11,860	95.0	74.6	7,950*																					
90.0	67.4	12,470	90.0	69.7	13,000	95.0	67.6	11,550	95.0	70.5	12,210	95.0	69.2	11,720	95.0	72.7	9,740*	100.0	69.2	10,890	100.0	73.3	7,760*																					
95.0	65.8	11,330	95.0	68.1	11,810	100.0	66.2	10,600	100.0	69.1	11,190	100.0	67.8	10,750	100.0	71.4	9,500*	105.0	67.9	10,000	105.0	72.0	7,530*																					
100.0	64.3	10,380	100.0	66.5	10,820	105.0	64.8	9,740	105.0	67.6	10,290	105.0	66.5	9,890	105.0	70.0	9,280*	110.0	66.6	9,230	110.0	70.7	7,360*																					
105.0	62.8	9,540	105.0	65.0	9,940	110.0	63.3	8,970	110.0	66.1	9,470	110.0	65.1	9,100	110.0	68.5	9,060*	115.0	65.2	8,460	115.0	69.2	7,160*																					
110.0	61.3	8,770	110.0	63.4	9,140	115.0	61.8	8,200	115.0	64.5	8,680	115.0	63.6	8,350	115.0	67.0	8,840*	120.0	63.8	7,820	120.0	67.8	7,010*																					
115.0	59.6	8,020	115.0	61.7	8,370	120.0	60.3	7,560	120.0	63.0	8,000	120.0	62.2	7,710	120.0	65.6	8,280	125.0	62.5	7,230	125.0	66.4	6,850*																					
120.0	58.0	7,380	120.0	60.1	7,710	125.0	58.8	6,980	125.0	61.4	7,380	125.0	60.8	7,120	125.0	64.1	7,640	130.0	61.1	6,670	130.0	65.0	6,700*																					
125.0	56.4	6,810	125.0	58.4	7,090	130.0	57.2	6,430	130.0	59.8	6,830	130.0	59.3	6,560	130.0	62.6	7,070	135.0	59.7	6,150*	135.0	63.6	6,540*																					
130.0	54.7	6,280	130.0	56.8	6,540	135.0	55.6	5,950	135.0	58.2	6,300	135.0	57.8	6,080	135.0	61.1	6,540	140.0	58.2	5,590*	140.0	62.0	6,210																					
135.0	53.0	5,770*	135.0	55.0	6,040	140.0	53.9	5,370*	140.0	56.4	5,770	140.0	56.2	5,510*	140.0	59.4	6,010	145.0	56.8	5,110*	145.0	60.5	5,700*																					
140.0	51.2	5,180*	140.0	53.1	5,480*	145.0	52.3	4,870*	145.0	54.7	5,260*	145.0	54.7	5,020*	145.0	57.8	5,510*	150.0	55.3	4,620*	150.0	59.0	5,220*																					
145.0	49.4	4,650*	145.0	51.3	4,960*	150.0	50.6	4,380*	150.0	53.0	4,760*	150.0	53.1	4,540*	150.0	56.2	5,020*	155.0	53.8	4,210*	155.0	57.5	4,760*																					
150.0	47.6	4,160*				155.0	48.8	3,920*				160.0	46.9	3,460*				165.0	48.1	3,240*				160.0	52.2	3,760*	160.0	55.8	4,290*															
155.0	45.7	3,680*				160.0	46.9	3,460*				165.0	52.7	4,070*				170.0	50.6	3,370*	165.0	54.1	3,880*	165.0	57.5	4,030*																		
160.0	43.6	3,210*				165.0	45.1	3,040*				170.0	49.3	3,210*				175.0	53.1	3,410*	165.0	52.6	3,080*	165.0	56.0	3,610*	170.0	54.4	3,240*															
Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1	Reeves	1							

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



Supplemental Data - Clamshell

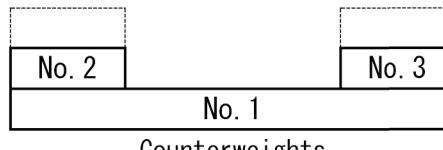
1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to 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 43,700 lbs (2) Counterweights installed, and without carboddy 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)	22,000

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. Assembling the Counterweight
 43,700 lbs counterweight (No. 1 ~ No. 3)
 Without Carboddy weights



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
40 (12.2)	Base-Tip
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip
80 (24.4)	Base-A-A-B-Tip, Base-B-B-Tip
90 (27.4)	Base-A-C-Tip
100 (30.5)	Base-A-A-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.

3 Counterweights (43,700 lbs) - Without Carbody weights - Crawlers in extended position.

40' Boom			50' Boom			60' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0	63.7	22,000 *	26.0	64.3	22,000 *	30.0	64.6	22,000 *
24.0	60.5	22,000 *	28.0	61.7	22,000 *	32.0	62.5	22,000 *
26.0	57.1	22,000 *	30.0	59.0	22,000 *	34.0	60.3	21,400 *
28.0	53.5	22,000 *	32.0	56.3	22,000 *	36.0	58.1	20,200 *
30.0	49.8	22,000 *	34.0	53.5	21,400 *	38.0	55.8	19,200 *
32.0	45.9	22,000 *	36.0	50.5	20,200 *	40.0	53.4	18,200 *
34.0	41.7	21,400 *	38.0	47.4	19,200 *	42.0	51.0	17,300 *
36.0	37.0	20,200 *	40.0	44.2	18,200 *	44.0	48.4	16,500 *
38.0	31.8	19,200 *	42.0	40.7	17,300 *	46.0	45.8	15,800 *
40.0	25.7	18,200 *	44.0	37.0	16,500 *	48.0	43.0	15,200 *
			46.0	32.9	15,800 *	50.0	40.1	14,600 *
			48.0	28.3	15,200 *	52.0	37.0	14,000 *
						54.0	33.6	13,500 *
						56.0	29.9	13,000 *
						58.0	25.7	12,500 *

Refer to notes on page 29.



Clamshell

3 Counterweights (43,700 lbs) - Without Carbody weights - Crawlers in extended position.

70' Boom			80' Boom			90' Boom		
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
34.0	64.9	21,400 *	38.0	65.1	19,200 *	42.0	65.2	17,300 *
36.0	63.1	20,200 *	40.0	63.5	18,200 *	44.0	63.8	16,500 *
38.0	61.2	19,200 *	42.0	61.9	17,300 *	46.0	62.4	15,800 *
40.0	59.3	18,200 *	44.0	60.2	16,500 *	48.0	60.9	15,200 *
42.0	57.4	17,300 *	46.0	58.6	15,800 *	50.0	59.5	14,600 *
44.0	55.4	16,500 *	48.0	56.9	15,200 *	52.0	58.0	14,000 *
46.0	53.4	15,800 *	50.0	55.1	14,600 *	54.0	56.4	13,500 *
48.0	51.3	15,200 *	52.0	53.3	14,000 *	56.0	54.9	13,000 *
50.0	49.1	14,600 *	54.0	51.5	13,500 *	58.0	53.3	12,500 *
52.0	46.9	14,000 *	56.0	49.6	13,000 *	60.0	51.7	12,100 *
54.0	44.6	13,500 *	58.0	47.7	12,500 *	62.0	50.0	11,700 *
56.0	42.2	13,000 *	60.0	45.7	12,100 *	64.0	48.3	11,400 *
58.0	39.6	12,500 *	62.0	43.7	11,700 *	66.0	46.6	11,000 *
60.0	37.0	12,100 *	64.0	41.5	11,400 *	68.0	44.8	10,700 *
62.0	34.1	11,700 *	66.0	39.3	11,000 *	70.0	43.0	10,400 *
64.0	31.0	11,400 *	68.0	37.0	10,700 *	72.0	41.0	10,100 *
66.0	27.6	11,000 *	70.0	34.5	10,400 *	74.0	39.0	9,700
			72.0	31.8	10,100 *	76.0	36.9	9,200
			74.0	28.9	9,800 *	78.0	34.7	9,000
			76.0	25.7	9,400 *	80.0	32.4	8,500
						82.0	29.9	8,300
						84.0	27.2	7,900
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)
46.0	65.4	15,800 *	56.0	62.0	11,900 *	56.0	64.5	11,400 *
48.0	64.1	15,200 *	58.0	60.8	11,700 *	58.0	63.4	11,300 *
50.0	62.8	14,600 *	60.0	59.6	11,600 *	60.0	62.3	11,200 *
52.0	61.5	14,000 *	62.0	58.3	11,300 *	62.0	61.3	11,000 *
54.0	60.2	13,500 *	64.0	57.1	11,100 *	64.0	60.2	10,800 *
56.0	58.8	13,000 *	66.0	55.8	10,800 *	66.0	59.0	10,600 *
58.0	57.5	12,500 *	68.0	54.6	10,400 *	68.0	57.9	10,200 *
60.0	56.1	12,100 *	70.0	53.3	10,100	70.0	56.8	9,900
62.0	54.7	11,700 *	72.0	52.0	9,700	72.0	55.6	9,500
64.0	53.3	11,400 *	74.0	50.6	9,300	74.0	54.5	9,100
66.0	51.8	11,000 *	76.0	49.2	8,900	76.0	53.3	8,800
68.0	50.4	10,700 *	78.0	47.8	8,500	78.0	52.1	8,400
70.0	48.8	10,300	80.0	46.4	8,200	80.0	50.8	8,100
72.0	47.3	9,900	82.0	45.0	7,900	82.0	49.6	7,700
74.0	45.7	9,400	84.0	43.4	7,500	84.0	48.3	7,400
76.0	44.1	9,000	86.0	41.9	7,200	86.0	47.0	7,100
78.0	42.4	8,800	88.0	40.3	7,000	88.0	45.7	6,800
80.0	40.6	8,300	90.0	38.6	6,800	90.0	44.3	6,600
82.0	38.8	8,100	92.0	36.9	6,600	92.0	42.9	6,400
84.0	36.9	7,700	94.0	35.1	6,400	94.0	41.5	6,200
86.0	35.0	7,400	96.0	33.3	6,200	96.0	40.0	6,000
88.0	32.9	7,200	98.0	31.3	5,900	98.0	38.5	5,700
90.0	30.7	7,000	100.0	29.2	5,700	100.0	36.9	5,500
92.0	28.3	6,800	102.0	27.0	5,500	102.0	35.3	5,300
94.0	25.8	6,600	104.0	24.5	5,300	104.0	33.6	5,100
						106.0	31.8	5,000

Refer to notes on page 29.



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.
 - Crawlers must be fully extended and be locked in position.
 - Must have 69,100 lbs (5) Counterweights fully installed.
 - Must have 31,700 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	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)		430		Not Applicable	

When auxiliary sheave is used for 8 or 7 reeving parts of line, it is not required to deduct 430 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 430 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 24,000 lbs.

10. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 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)	25,200	50,400	75,600	100,800	126,000

No. of Parts of line	6	7	8
Maximum Loads (lbs)	151,200	176,400	220,000

Maximum Load for Auxiliary Sheave

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

14. Weight of recommended hook block.

Hook Block	110 t	77 t	55 t	39 t	12 t ball hook
Weight (lbs)	3,815	1,990	1,875	1,545	660

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.



Barge
5 Counterweights (69,100 lbs) - 2 Carbonyl weights (31,800 lbs) - Crawlers in extended position.

40' Boom					50' Boom					60' 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	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List
11.0	80.5	220,000 *				12.0	81.2	213,200 *				13.0	81.7	200,400 *			
12.0	79.0	213,300 *				13.0	80.0	200,600 *				14.0	80.7	187,400 *			
13.0	77.5	200,800 *				14.0	78.9	187,800 *				15.0	79.8	175,200 *			
14.0	76.0	188,100 *				15.0	77.7	175,600 *				16.0	78.8	164,800 *			
15.0	74.6	175,900 *	175,900 *			16.0	76.6	165,300 *				17.0	77.8	155,500 *			
16.0	73.1	165,500 *	165,500 *			17.0	75.4	156,000 *				18.0	76.8	146,900 *			
17.0	71.6	156,300 *	156,300 *	127,700 *		18.0	74.2	147,400 *	143,200 *			19.0	75.9	139,800 *	123,900 *		
18.0	70.1	147,800 *	146,400 *	126,100 *		19.0	72.9	140,100 *	132,200 *			20.0	74.9	132,200	118,100 *		
19.0	68.5	140,500 *	134,600 *	122,400 *		20.0	71.7	132,400	122,900			22.0	72.9	115,100	105,300		
20.0	66.9	132,800	124,900	116,500 *	100,300 *	22.0	69.3	115,300	106,800	98,500 *	77,800 *	24.0	70.9	100,800	93,000	81,600 *	
22.0	63.7	115,600	108,300	103,400	97,800 *	24.0	66.8	101,000	94,400	89,500 *	77,800 *	26.0	68.8	89,100	83,200	78,700	
24.0	60.4	101,300	95,600	92,000	88,400	26.0	64.3	89,400	84,500	80,700	75,600 *	28.0	66.7	80,500	75,300	71,600	63,000 *
26.0	57.0	89,600	85,600	82,700	79,900	28.0	61.7	80,700	76,400	73,400	70,700	30.0	64.6	72,800	68,700	65,700	61,500 *
28.0	53.4	80,900	77,400	75,100	72,900	30.0	59.1	73,000	69,700	67,200	64,900	32.0	62.5	66,600	63,200	60,600	58,400
30.0	49.8	73,300	70,600	68,700	67,000	32.0	56.3	67,000	63,900	61,900	60,000	34.0	60.3	61,600	58,400	56,200	54,400
32.0	45.8	67,200	64,800	63,400	62,000	34.0	53.4	62,000	59,100	57,400	55,900	36.0	58.0	57,300	54,200	52,400	50,800
34.0	41.2	61,700	60,000	58,900	57,800	36.0	50.3	57,800	55,000	53,600	52,300	38.0	55.7	53,100	50,600	49,100	47,700
36.0	36.2	56,600	55,700 *	54,700 *	53,700 *	38.0	47.3	53,600	51,400	50,100	49,000	40.0	53.4	49,300	47,500	46,100	44,900
38.0	31.1	51,500	51,000 *	49,700 *	48,400 *	40.0	44.0	49,800	48,100	47,200	46,300	42.0	50.9	46,600	44,600	43,500	42,400
40.0	25.4	45,900 *	44,800 *	43,600 *	42,500 *	42.0	40.4	47,000	45,400	44,600	43,800	44.0	48.3	43,800	42,100	41,100	40,200
						44.0	36.7	44,300	42,900	42,200	41,500	46.0	45.8	41,100	39,800	38,900	38,100
						46.0	62.9	41,500	40,600	40,000	39,500	48.0	42.8	39,200	37,700	37,000	36,300
						48.0	27.6	38,300	38,200 *	37,400 *	36,700 *	50.0	39.9	37,200	35,900	35,300	34,800
						50.0	22.3	35,100	34,800 *	33,900 *		55.0	31.2	32,900	31,900 *	31,500 *	31,100 *
											60.0	20.7	28,600 *				
Reeves		8	7	6	4	Reeves		8	6	4	4	Reeves		8	5	4	4
70' Boom					80' Boom					90' 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	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List
15.0	81.3	151,000 *				16.0	81.6	151,000 *				17.0	81.9	125,800 *			
16.0	80.4	151,000 *				17.0	80.9	149,300 *				18.0	81.3	125,800 *			
17.0	79.6	149,400 *				18.0	80.2	146,500 *				19.0	80.7	125,800 *			
18.0	78.7	146,700 *				19.0	79.5	139,400 *				20.0	80.0	124,000 *			
19.0	77.9	139,800 *				20.0	78.8	131,800				22.0	78.7	112,500 *			
20.0	77.1	132,200				22.0	77.3	115,100				24.0	77.4	100,800			
22.0	75.4	115,400				24.0	75.8	101,000				26.0	76.1	89,100			
24.0	73.7	101,300	92,400			26.0	74.3	89,200	81,800			28.0	74.8	80,500	73,000 *		
26.0	72.0	89,600	82,800	68,700 *		28.0	72.8	80,500	74,100			30.0	73.5	72,800	66,900		
28.0	70.3	80,800	75,000	67,400 *		30.0	71.2	72,800	67,700	58,100 *		32.0	72.1	66,600	61,600	50,600 *	
30.0	68.5	73,000	68,500	65,000	53,600 *	32.0	69.7	66,600	62,200	57,100 *	46,400 *	34.0	70.8	61,600	56,900	49,600 *	
32.0	66.7	67,000	63,000	60,100	51,800 *	34.0	68.2	61,600	57,500	54,700	44,700 *	36.0	69.4	57,300	53,000	49,000 *	39,900 *
34.0	64.9	62,000	58,300	55,700	49,900 *	36.0	66.6	57,300	53,500	51,000	43,300 *	38.0	68.0	53,100	49,500	47,000	38,500 *
36.0	63.0	57,800	54,200	52,100	47,900 *	38.0	65.1	53,100	50,000	47,800	41,800 *	40.0	66.6	49,300	46,300	44,200	37,600 *
38.0	61.2	53,600	50,600	48,700	45,800	40.0	63.5	49,300	46,800	45,000	40,400 *	42.0	65.2	46,500	43,600	41,700	36,400 *
40.0	59.3	49,800	47,400	45,700	43,800	42.0	61.8	46,600	44,100	42,400	39,000 *	44.0	63.8	43,700	41,100	39,500	35,400 *
42.0	57.3	46,900	44,600	43,100	41,500	44.0	60.2	43,800	41,600	40,100	37,700	46.0	62.4	40,900	38,900	37,400	34,300
44.0	55.3	44,100	42,100	40,800	39,700	46.0	58.5	41,100	39,300	38,000	36,200	48.0	60.9	38,900	36,900	35,600	33,200
46.0	53.3	41,300	39,800	38,700	37,700	48.0	56.8	39,100	37,300	36,200	34,800	50.0	59.4	36,900	35,100	34,000	32,000
48.0	51.2	39,400	37,700	36,700	35,900	50.0	55.1	37,100	35,500	34,500	33,600	55.0	55.7	32,500	31,200	30,300	29,200
50.0	49.0	37,400	35,900	35,100	34,300	55.0	50.5	32,700	31,500	30,800	30,000	60.0	51.7	29,000	28,100	27,400	26,600
55.0	43.2	33,200	32,000	31,400	30,800	60.0	45.7	29,200	28,300	27,700	27,200	65.0	47.4	26,100	25,400	24,800	24,200
60.0	36.9	29,600	28,800	28,400	28,100	65.0	40.4	26,300	25,700	25,300	24,800	70.0	42.9	23,800	23,100	22,700	22,200
65.0	29.2	26,800	26,300 *	26,000 *	25,800 *	70.0	34.3	24,100	23,400	23,100	22,800	75.0	37.9	21,800	21,200	20,800	20,500
						75.0	26.9	22,100	21,500	21,300	21,100	80.0	32.2	20,100	19,600	19,300	19,100
											85.0	25.7	18,600	18,300	18,100	17,900	
Reeves		6	4	4	4	Reeves		6	4	4	2	Reeves		5	4	4	2



Barge

5 Counterweights (69,100 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

100' Boom					110' Boom					120' 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	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List
19.0	81.6	125,600 *				20.0	81.8	100,800 *				22.0	81.6	98,700 *			
20.0	81.0	123,600 *				22.0	80.8	100,800 *				24.0	80.6	94,200 *			
22.0	79.9	112,200 *				24.0	79.7	96,500 *				26.0	79.6	88,000 *			
24.0	78.7	100,600				26.0	78.6	88,500 *				28.0	78.6	79,900			
26.0	77.5	88,900				28.0	77.6	80,200				30.0	77.7	72,200			
28.0	76.3	80,200				30.0	76.5	72,400				32.0	76.7	66,100			
30.0	75.1	72,400				32.0	75.4	66,300				34.0	75.7	61,100	53,000 *		
32.0	74.0	66,300	60,800			34.0	74.3	61,300	55,900 *			36.0	74.7	56,800	51,300		
34.0	72.8	61,300	56,300			36.0	73.2	57,000	51,900			38.0	73.7	52,500	47,900		
36.0	71.6	57,000	52,300	43,500 *		38.0	72.2	52,700	48,600			40.0	72.7	48,700	45,000	33,900 *	
38.0	70.3	52,700	48,900	42,900 *		40.0	71.1	48,900	45,500	37,900 *		42.0	71.7	45,800	42,200	33,400 *	
40.0	69.1	48,900	45,800	42,400 *	34,800 *	42.0	70.0	46,200	42,900	37,500 *		44.0	70.7	43,000	39,800	33,000 *	
42.0	67.9	46,200	43,100	40,900 *	33,500 *	44.0	68.9	43,400	40,400	37,000 *	28,900 *	46.0	69.7	40,200	37,600	32,800 *	
44.0	66.6	43,400	40,700	38,800	32,500 *	46.0	67.8	40,700	38,200	36,200 *	28,600 *	48.0	68.6	38,300	35,600	32,300 *	
46.0	65.4	40,700	38,500	36,800	31,700 *	48.0	66.6	38,700	36,300	34,600	28,200 *	50.0	67.6	36,300	34,000	31,700 *	24,800 *
48.0	64.1	38,700	36,500	35,000	30,900 *	50.0	65.4	36,600	34,500	32,900	27,900 *	55.0	65.0	32,000	30,200	28,900	24,300 *
50.0	62.8	36,600	34,700	33,400	30,000 *	55.0	62.5	32,300	30,500	29,400	27,200 *	60.0	62.3	28,300	27,100	26,000	23,600 *
55.0	59.5	32,300	30,800	29,700	27,800 *	60.0	59.5	28,700	27,400	26,400	25,500	65.0	59.6	25,400	24,400	23,500	22,700
60.0	56.1	28,700	27,500	26,700	25,500	65.0	56.5	25,900	24,700	23,900	23,100	70.0	56.8	23,200	22,200	21,400	20,800
65.0	52.5	25,900	24,900	24,300	23,600	70.0	53.2	23,500	22,500	21,800	21,200	75.0	53.8	21,200	20,300	19,700	19,100
70.0	48.8	23,500	22,700	22,100	21,500	75.0	49.9	21,400	20,600	20,000	19,500	80.0	50.8	19,400	18,600	18,100	17,600
75.0	44.8	21,400	20,700	20,300	20,000	80.0	46.4	19,600	19,000	18,600	18,200	85.0	47.7	17,700	17,200	16,700	16,300
80.0	40.5	19,600	19,200	18,800	18,500	85.0	42.6	18,100	17,700	17,300	17,000	90.0	44.3	16,500	15,900	15,600	15,300
85.0	36.0	18,100	17,700	17,500	17,200	90.0	38.6	16,800	16,400	16,100	15,700	95.0	40.7	15,300	14,800	14,500	14,300
90.0	30.5	16,900	16,500	16,300	16,100	95.0	34.1	15,600	15,200	15,000	14,800	100.0	36.9	14,200	13,800	13,600	13,400
95.0	24.0	15,800	15,400	15,300	15,100	100.0	29.1	14,600	14,300	14,200	14,000	110.0	27.8	12,600	12,200	12,000	11,900
Reeves		5	4	2	2	Reeves	4	4	2	2	Reeves	4	4	2	2		
130' Boom					140' Boom					150' 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	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List
24.0	81.3	85,100 *				24.0	81.9	72,900 *				26.0	81.7	62,200 *			
26.0	80.4	83,900 *				26.0	81.1	71,800 *				28.0	80.9	61,300 *			
28.0	79.5	78,200 *				28.0	80.3	70,800 *				30.0	80.1	60,400 *			
30.0	78.6	71,900				30.0	79.4	69,000 *				32.0	79.4	59,400 *			
32.0	77.7	65,900				32.0	78.6	64,700 *				34.0	78.6	57,200 *			
34.0	76.9	60,900				34.0	77.8	60,500				36.0	77.8	54,100 *			
36.0	75.9	56,600				36.0	76.9	56,200				38.0	77.0	51,000 *			
38.0	75.0	52,300	46,400 *			38.0	76.1	52,000				40.0	76.3	48,000			
40.0	74.1	48,400	44,500			40.0	75.2	48,200	41,500 *			42.0	75.5	45,200	37,100 *		
42.0	73.2	45,600	41,700			42.0	74.4	45,400	40,600 *			44.0	74.7	42,400	36,600 *		
44.0	72.2	42,800	39,400	29,700 *		44.0	73.5	42,600	38,900			46.0	73.9	39,600	35,800 *		
46.0	71.3	40,000	37,200	29,400 *		46.0	72.7	39,800	36,800			48.0	73.1	37,500	34,500		
48.0	70.4	38,000	35,300	29,100 *		48.0	71.8	37,800	34,900			50.0	72.3	35,500	32,800	23,300 *	
50.0	69.4	36,000	33,600	28,700 *		50.0	71.0	35,800	33,200			55.0	70.3	31,200	29,000	22,700 *	
55.0	67.1	31,600	29,700	27,900 *	21,700 *	55.0	68.8	31,400	29,400	25,100 *	19,200 *	60.0	68.2	27,600	25,800	22,000 *	16,800 *
60.0	64.6	28,100	26,600	25,500	21,200 *	60.0	66.6	27,800	26,200	24,500 *	18,700 *	65.0	66.2	24,800	23,300	21,600 *	16,500 *
65.0	62.2	25,200	24,100	23,100	20,700 *	65.0	64.3	25,000	23,500	22,400 *	18,300 *	70.0	64.0	24,400	21,100	20,100 *	16,100 *
70.0	59.6	22,900	21,900	21,100	20,000 *	70.0	62.0	22,600	21,300	20,500	17,900 *	75.0	61.9	20,300	19,200	18,300	15,700 *
75.0	57.0	20,900	20,000	19,300	18,700	75.0	59.7	20,500	19,500	18,700	17,400 *	80.0	59.6	18,500	17,600	17,000	15,400 *
80.0	54.3	19,000	18,300	17,700	17,200	80.0	57.3	18,700	17,800	17,200	16,600	85.0	57.4	17,000	16,200	15,500	14,900 *
85.0	51.6	17,500	16,900	16,400	16,000	85.0	54.8	17,200	16,400	15,800	15,400	90.0	55.2	15,700	14,900	14,400	14,000
90.0	48.7	16,100	15,700	15,300	14,900	90.0	52.2	15,900	15,200	14,700	14,300	95.0	52.8	14,400	13,800	13,300	13,000
95.0	45.6	15,000	14,600	14,200	13,900	95.0	49.5	14,600	14,100	13,700	13,300	100.0	50.3	13,400	12,800	12,500	12,100
100.0	42.4	14,000	13,600	13,300	13,000	100.0	46.8	13,600	13,100	12,800	12,500	110.0	45.1	11,700	11,200	10,900	10,700
110.0	35.4	12,100	11,900	11,700	11,600	110.0	40.8	11,900	11,400	11,200	11,000	120.0	39.3	10,300	9,900	9,600	9,400
120.0	26.6	10,800	10,600	10,500	10,400	120.0	34.0	10,300	10,100	9,900	9,800	130.0	32.8	8,900	8,800	8,600	8,400
125.0	21.3	10,230	9,900			130.0	25.7	9,200	9,100	8,900	8,800	140.0	24.3	8,000	7,800	7,700	7,600
Reeves		4	2	2	2	Reeves	4	2	2	2	Reeves	4	2	2	2		

Barge
5 Counterweights (69,100 lbs) - 2 Carbonyl weights (31,800 lbs) - Crawlers in extended position.

160' Boom					170' Boom					180' 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	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List				
28.0	81.5	50,200*				30.0	81.3	44,500*				30.0	81.8	39,300*							
30.0	80.8	50,100*				32.0	80.7	43,900*				32.0	81.2	38,800*							
32.0	80.1	49,700*				34.0	80.0	43,200*				34.0	80.5	38,200*							
34.0	79.4	49,200*				36.0	79.3	42,500*				36.0	79.9	37,600*							
36.0	78.6	48,500*				38.0	78.6	41,900*				38.0	79.2	37,000*							
38.0	77.9	47,800*				40.0	77.9	41,200*				40.0	78.6	36,400*							
40.0	77.2	46,600*				42.0	77.2	40,600*				42.0	77.9	35,800*							
42.0	76.4	44,300*				44.0	76.5	40,000*				44.0	77.2	35,100*							
44.0	75.6	42,100*	32,200*			46.0	75.8	39,300*				46.0	76.6	34,500*							
46.0	74.9	39,800	31,700*			48.0	75.1	37,400*	28,400*			48.0	75.9	33,900*							
48.0	74.1	37,800	31,300*			50.0	74.4	35,400*	28,100*			50.0	75.3	33,300*							
50.0	73.4	35,800	31,000*			55.0	72.6	31,200	27,100*	17,700*		55.0	73.7	30,800*	24,200*						
55.0	71.5	31,400	28,900*	20,000*		60.0	70.9	27,600	25,400*	17,300*		60.0	72.0	27,400	22,900*	15,300*					
60.0	69.6	27,800	26,000	19,300*		65.0	69.1	24,600	23,000	16,900*		65.0	70.3	24,400	21,800*	15,100*					
65.0	67.7	25,000	23,400	18,900*	14,400*	70.0	67.3	22,300	20,900	16,400*	12,400*	70.0	68.6	21,900	20,400*	14,600*	10,800*				
70.0	65.8	22,600	21,200	18,500*	14,000*	75.0	65.4	20,300	19,000	16,000*	12,200*	75.0	66.9	19,900	18,700	14,200*	10,600*				
75.0	63.8	20,500	19,300	18,000*	13,700*	80.0	63.5	18,500	17,400	15,600*	11,800*	80.0	65.2	18,100	17,100	13,800*	10,400*				
80.0	61.8	18,700	17,700	16,900	13,400*	85.0	61.6	16,800	16,000	15,300*	11,500*	85.0	63.4	16,600	15,700	13,500*	10,000*				
85.0	59.7	17,000	16,300	15,600	13,100*	90.0	59.7	15,400	14,700	14,000	11,300*	90.0	61.6	15,200	14,400	12,900*	9,700*				
90.0	57.6	15,700	15,000	14,300	12,800*	95.0	57.8	14,300	13,600	13,200	11,100*	95.0	59.8	14,000	13,200	12,200*	9,500*				
95.0	55.4	14,500	13,900	13,500	12,400*	100.0	55.8	13,300	12,600	12,100	10,800*	100.0	57.9	12,900	12,300	11,600*	9,300*				
100.0	53.2	13,500	12,900	12,400	12,000	110.0	51.5	11,500	10,900	10,600	10,100*	110.0	54.0	11,100	10,600	10,300	8,500*				
110.0	48.6	11,700	11,100	10,900	10,600	120.0	47.0	9,800	9,600	9,300	9,000	120.0	49.9	9,600	9,100	8,800	7,700*				
120.0	43.6	10,100	9,800	9,600	9,300	130.0	42.2	8,700	8,400	8,200	8,000	130.0	45.6	8,500	8,000	7,700	6,900*				
130.0	38.1	8,900	8,600	8,500	8,300	140.0	36.8	7,700	7,300	7,100	7,000	140.0	40.9	7,400	7,000	6,900	6,000*				
140.0	31.6	7,900	7,800	7,600	7,500	150.0	30.5	6,800	6,500	6,400	6,200*	150.0	35.7	6,500	6,200	6,000	5,000*				
150.0	23.7	7,100	6,900	6,800	6,700	160.0	23.2	5,900	5,800*	5,800*	5,100*	160.0	29.7	5,600	5,400	5,000*	4,200*				
Reeves		2	2	2	2	Reeves		2	2	2	2	Reeves		2	2	2	2				
190' Boom					200' 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	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List				
32.0	81.6	34,400*				34.0	81.5	30,300*													
34.0	81.0	33,800*				36.0	80.9	29,700*													
36.0	80.4	33,300*				38.0	80.3	29,200*													
38.0	79.8	32,700*				40.0	79.7	28,700*													
40.0	79.2	32,200*				42.0	79.1	28,200*													
42.0	78.6	31,700*				44.0	78.6	27,700*													
44.0	78.0	31,100*				46.0	78.0	27,300*													
46.0	77.4	30,600*				48.0	77.4	26,800*													
48.0	76.7	30,100*				50.0	76.8	26,300*													
50.0	76.1	29,600*				55.0	75.3	24,900*													
55.0	74.5	28,100*	21,700*			60.0	73.8	23,200*	18,200*												
60.0	73.0	26,200*	20,600*			65.0	72.4	21,500*	17,100*	11,700*											
65.0	71.4	24,000*	19,500*	13,300*		70.0	70.9	20,000*	16,100*	11,300*											
70.0	69.8	21,800	18,400*	13,100*		75.0	69.3	18,500*	15,100*	11,000*											
75.0	68.2	19,900	17,300*	12,700*	9,200*	80.0	67.8	17,100*	14,100*	10,600*	7,700*										
80.0	66.5	18,000	16,200*	12,400*	9,000*	85.0	66.2	15,900*	13,300*	10,100*	7,500*										
85.0	64.9	16,400	15,300*	11,900*	8,800*	90.0	64.6	14,700	12,400*	9,500*	7,200*										
90.0	63.2	15,000	14,100	11,300*	8,600*	95.0	63.0	13,500	11,700*	9,000*	7,000*										
95.0	61.5	13,900	13,000	10,600*	8,400*	100.0	61.4	12,400	11,000*	8,400*	6,800*										
100.0	59.7	12,900	12,000	10,000*	8,200*	110.0	58.1	10,600	9,500*	7,400*	6,000*										
110.0	56.2	11,000	10,400	8,900*	7,400*	120.0	54.6	9,200	8,200*	6,500*	5,200*										
120.0	52.5	9,400	9,100	7,900*	6,500*	130.0	51.1	7,800	7,100*	5,600*	4,500*										
130.0	48.5	8,200	7,800	6,800*	5,700*	140.0	47.2	6,500	5,900*	4,600*	3,700*										
140.0	44.3	7,200	6,800	5,900*	4,900*	150.0	43.1	5,200*	4,900*	3,700*	3,100*										
150.0	39.7	6,300	5,900	5,100*	4,100*	155.0	41.0	4,650*	4,400*	3,500*											
160.0	34.8	5,300	5,100*	4,000*	3,400*																
165.0	32.1	4,650	4,600*	3,600*																	
Reeves		2	2	2	2	Reeves		2	2	2	2										

NOTES

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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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