KOBELCO

Hydraulic Crawler Crane

CK1100G

Max. Lifting Capacity : 110 US Tons
Max. Crane Boom Length : 200 ft
Max. Fixed Jib Combination : 190 ft + 60 ft

CK1100G
CONTENTS

General Description

Type	Crawler mounted, Lattice boom, Hydraulic controlled
Maximum lift capacity	220,000 lbs (99,800 kg) @ 11' operating radius (40' boom)
Basic boom length	40' (12.2 m)
Maximum boom length	200' (61.0 m)
Basic boom & jib length	80' + 30' (24.4 m + 9.1 m)
Maximum boom & jib length	190' + 60' (57.9 m + 18.3 m)
Working weight	Approx. 198,500 lbs (90,020 kg)
Ground bearing pressure	Approx. 12.9 psi (101 kPa)
Gradeability	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 and hook block.

General Dimensions

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

Working Speed

Hoist line speed (front and rear drums)	390 ~ 10 ft/min (120 ~ 3 m/min)
Lowering line speed (front and rear drums)	390 ~ 10 ft/min (120 ~ 3 m/min)
Boom hoist line speed (front and rear drums)	230 ~ 6.6 ft/min (70 ~ 2 m/min)
Boom lowering line speed (front and rear drums)	230 ~ 6.6 ft/min (70 ~ 2 m/min)
Swing speed (max.)	4.0 rpm
Travel speed (high/low)	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:

Diesel engine - make and model	Hino J08E-UV (complies with Interim "Tier 4")
No. of cylinders	6
Bore X stroke	4-13/16" x 5-7/8" (122 mm x 150 mm)
Cycles	4
Total displacement	469 cu.in. (7.684 ℓ)
Rated output SAE GROSS	285 HP / 2,100 rpm (213 kW / 2,100 min^{-1})
Maximum torque	750 lbs-ft / 1,600 rpm (1,017 Nm / 1,600 min^{-1})
Starter	24 Volts / 5.0 kW
Alternator	24 Volts / 90 Amp
Batteries	Two 12 volt, 136 AH/5 HR capacity series connected.
Radiator	Corrugated type core, thermostatically controlled, with cleanout screen.
Throttle	Twist grip type hand throttle, electrically controlled, in conjunction with floor mounted pedal.
Air cleaner	Dry type with replaceable paper element.
Fuel tank capacity	106 US gal. (400 liters)
Lube oil filters	Full flow and by-pass type with element type.
Fuel filter	Replaceable paper element.

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

Self Lifting Device - Standard Equipment

Counterweight and Carbody weight

Counterweight Base	1 x 18,200 (8,310 kg)
Counterweight (R)	2 x 12,700 (5,750 kg)
Counterweight (L)	2 x 12,700 (5,750 kg)
Total Counterweight	69,000 (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
116.2 US gal. (440 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, 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 and 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.

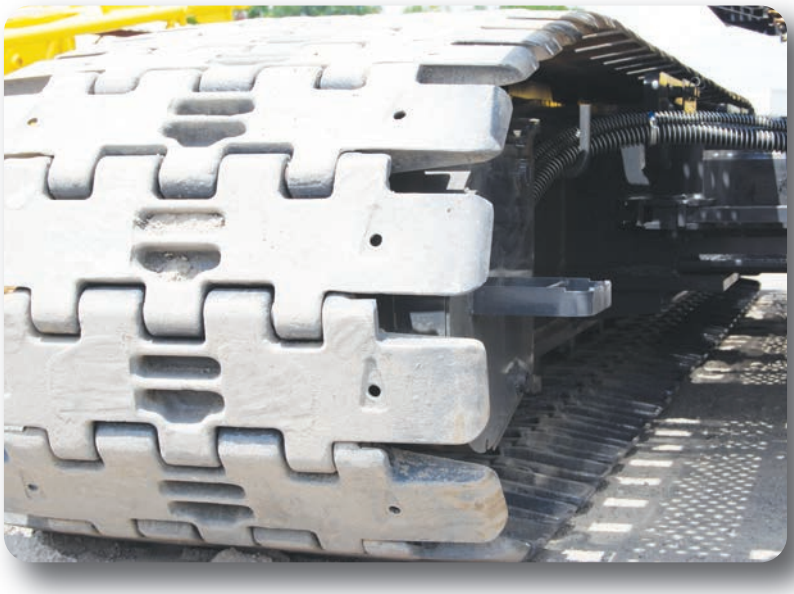
Drum lock External ratchet for locking drum

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.

Maximum boom length	200’ (61.0 m)
Basic boom length	40’ (12.2 m)
Boom base section	19’7” (5.97 m)
Boom tip section	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 capabilites. The optional jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections.

Maximum jib length	60’ (18.3 m)
Basic jib length	30’ (9.1 m)
Jib base section	15’9” (4.8 m)
Jib tip section	16’5” (5.0 m)
Jib insert	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

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 transfer pump
- Counterweight self-removal device
- KCross Telematics
- Free fall winches

Safety Service

- Function lock lever
- Swing Limiter
- 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)
- Level indicator
- 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

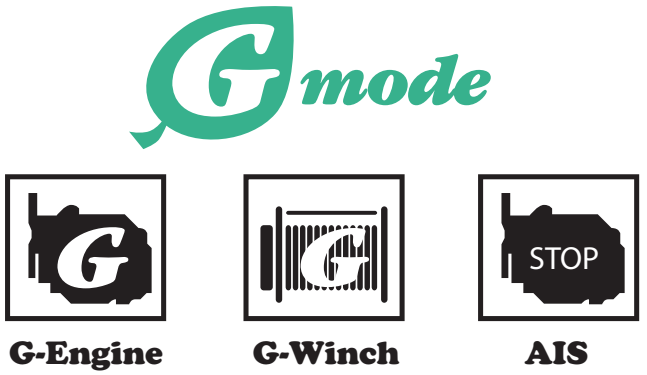
- Third drum
- Hook block
- Hook ball
- Auxiliary sheave
- Fixed jib
- Boom inserts
- Carbody erection cylinder

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.

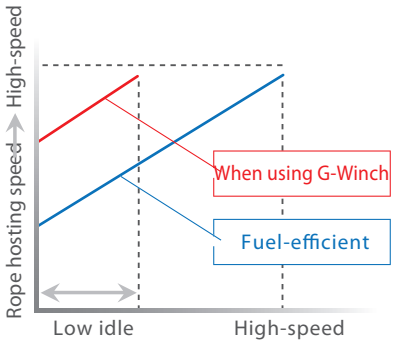
Auto Idling Stop Mode (AIS): *An Industry First*

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.



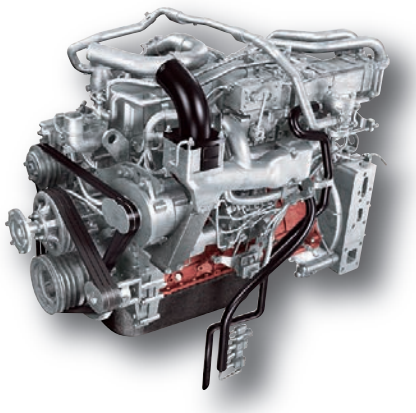
The high speed mode allows the line to be raised or lowered at maximum line speed without raising engine speed when lifting without a load.

Exhaust cleaning DPR:

The DPR (diesel particulate active reduction system) burns PM (particulate matter) collected by the DPF (diesel particulate filter) from the diesel exhaust gas, increasing the PM collection efficiency of the DPF, and recovering to purify the exhaust. This means that the exhaust gas from the diesel engine is cleaner, conforming with current EPA Interim Tier 4 regulations.

G-Engine Mode: *An Industry First*

The G-engine mode limits maximum engine speed to 1,750 RPM and controls the pumps to make engine operation in the most efficient condition.

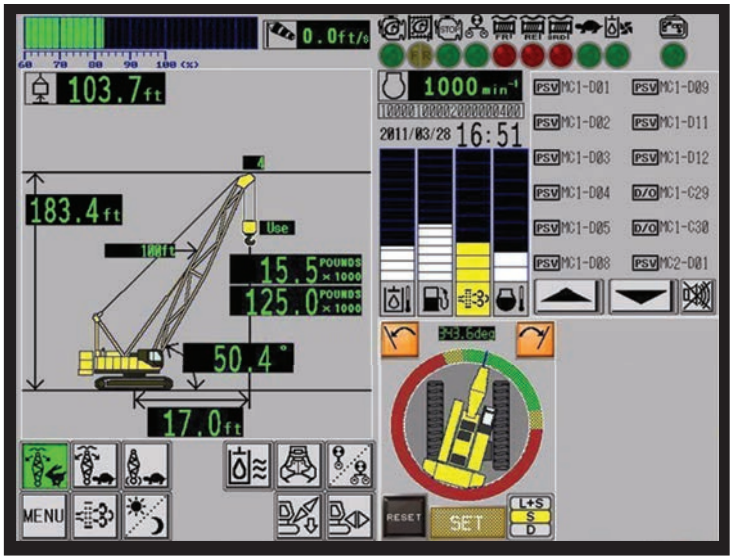


A new clean diesel system - although diesel engines consume less fuel and emit less CO2 than gasoline engines, they also emit more harmful particulate matter and nitrogen oxide (NOx). The “new clean energy system” engine utilizes a DPF to reduce particulate matter, which is also kept to a minimum using negative ions. This system requires the use of low sulfer diesel.

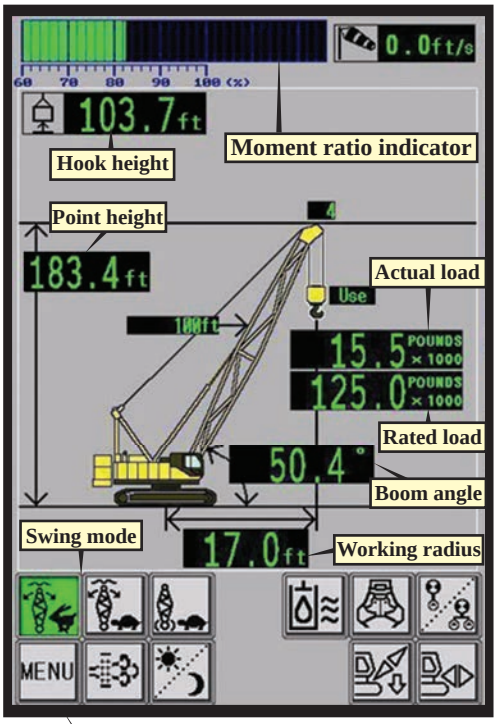
* Warning: High sulfer diesel will damage the engine.

Load Moment Indicator (LMI)

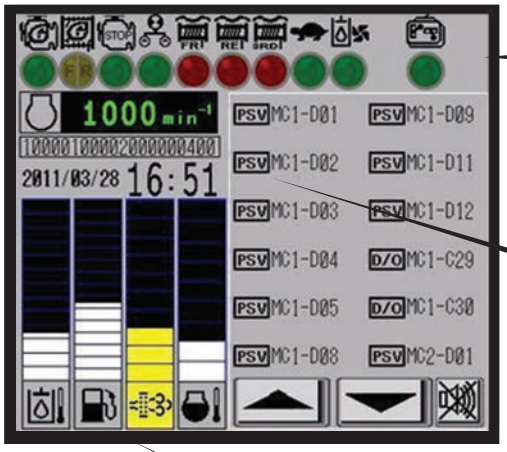
The Kobelco newly designed 12” touch panel screen with sunshade and screen protector is an industry first. This intuitive and easy to understand new touch screen monitor gives the operator a full display of essential data. Universal pictograms are used providing easy visual recognition, making this new 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, Switches, and Error Messages.



Moment Limiter (Left Side)



Gauges (Right Side)



Display Lamp

Display lamp	Remote control connection
G-Engine	Oil cooler operation
G-Winch	Free fall (auxiliary)
AIS operation	Free fall (3rd)
Slow speed state	

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

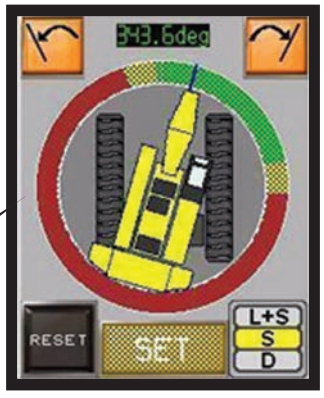
Gauges
Hydraulic oil temperature
Fuel gauge
Diesel particulate filter gauge
Coolant temperature

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

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.



Winch Performance Data

Note:

Line speed and line pull based on Hino J08E-UV 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 = 26 mm

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
	0	393	421	449	476	504	
	5,000	393	421	449	476	504	
	10,000	387	414	440	467	494	
Line Pull	15,000	360	360	348	348	348	
(lbs)	20,000	270	270	261	261	261	storage only
	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

Third Drum (for Load hoist)

Wire Rope Diameter = 22 mm

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)

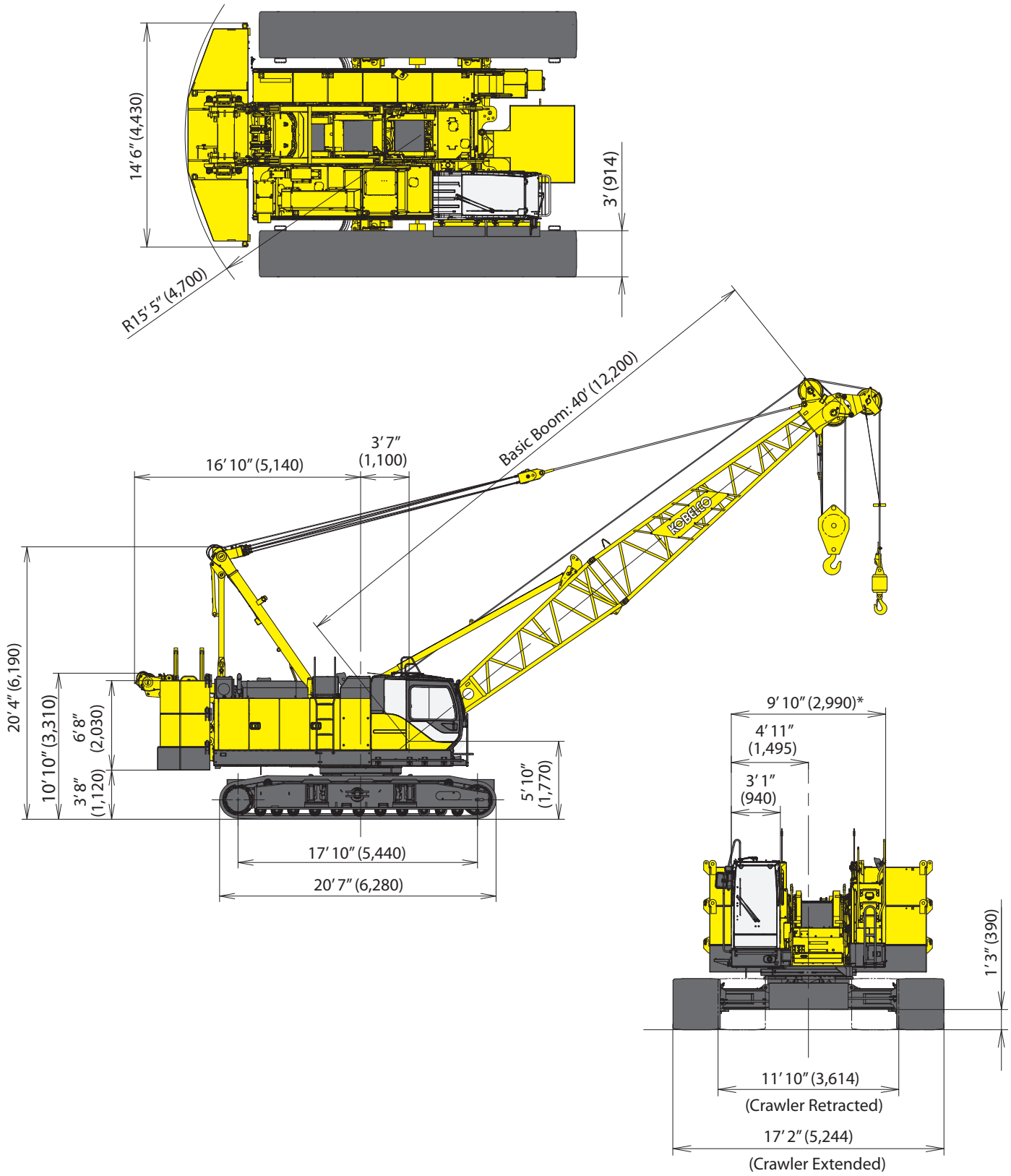
Line speed (ft/min)

	Layer	1	2	3	4	5	6
	0	394	394	394	394	394	
	5,000	394	394	394	394	394	
	10,000	227	227	227	227	227	
Line Pull	15,000	147	152	161	170	179	storage
(lbs)	17,000	142	151	160	169	178	only
	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

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)

General Dimensions

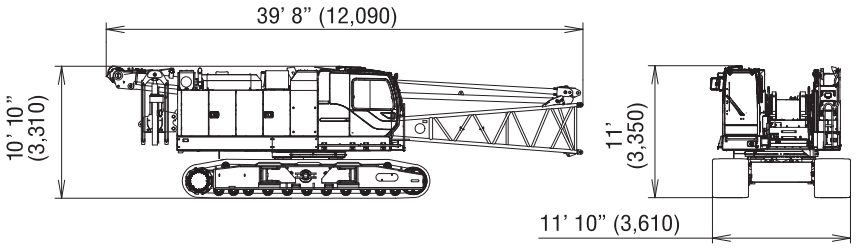


** - 10'5" wide with Catwalks on cab side only.*
11' wide with Catwalks on both sides.

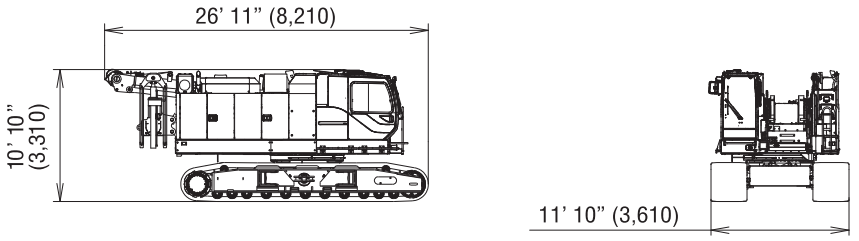
Dimensions and Weight

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

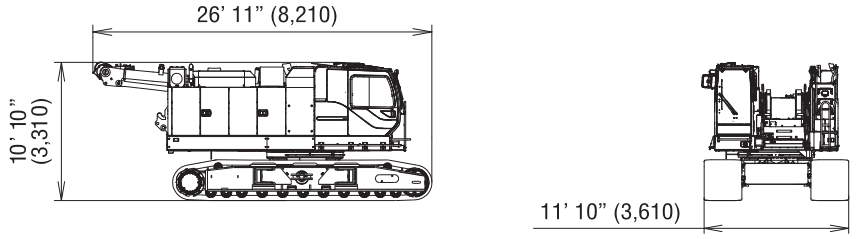
Base Machine - 1
Weight: 95,200 lbs (43,150 kg)
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)



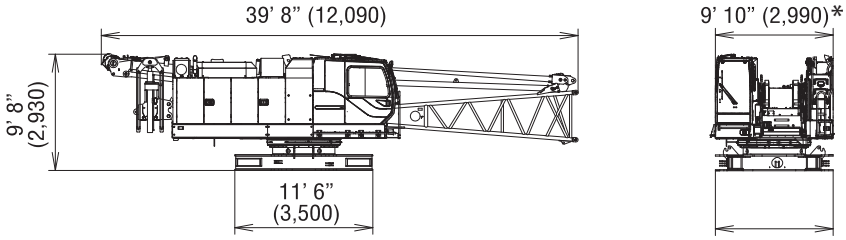
Base Machine - 2
Weight: 90,600 lbs (41,090 kg)
Gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)



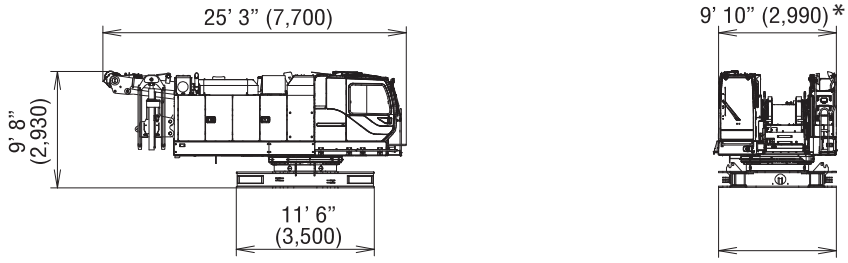
Base Machine - 3
Weight: 88,700 lbs (40,230 kg)
Gantry, crawlers, and wire ropes (front, rear, and boom hoist)



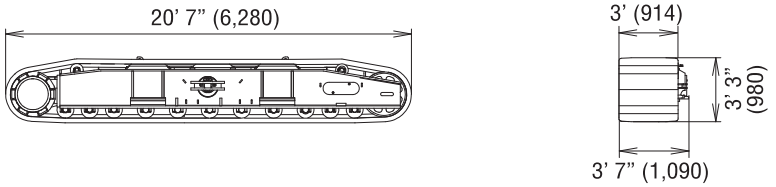
Base Machine - 4
Weight: 61,500 lbs (27,880 kg)
Boom base, gantry, self removal unit, and wire ropes (front, rear, and boom hoist)



Base Machine - 5
Weight: 56,900 lbs (25,820 kg)
Gantry, self removal unit, and wire ropes (front, rear, and boom hoist)



Crawler
Weight: 16,850 lbs (7,640 kg)

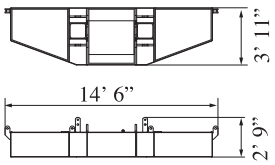


** - 10'5" wide with Catwalks on cab side only.*
11' wide with Catwalks on both sides.

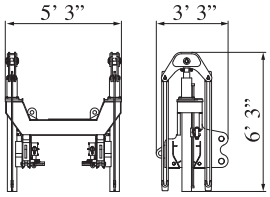
Dimensions and Weight

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

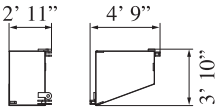
Counterweight Base
Weight: 18,200 lbs (8,310 kg)



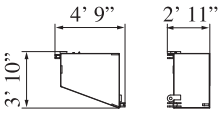
Self Removal Unit
Weight: 1,900 lbs (870 kg)



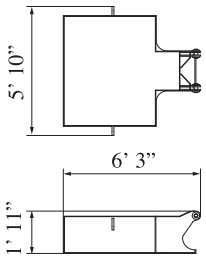
Counterweight (R)
Weight: 12,700 lbs (5,750 kg)



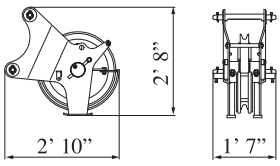
Counterweight (L)
Weight: 12,700 lbs (5,750 kg)



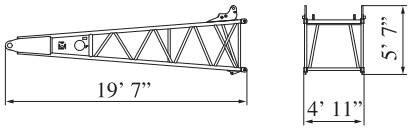
Carbody Weight
Weight: 15,900 lbs (7,200 kg)



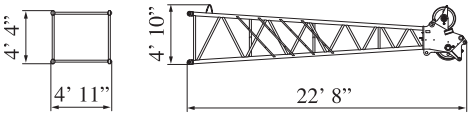
Auxiliary Sheave
Weight: 430 lbs (195 kg)



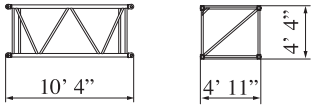
Boom Base
Weight: 3,400 lbs (1,517 kg)



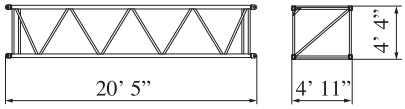
Boom Tip
Weight: 2,900 lbs (1,292 kg)
Includes cable roller and guy lines



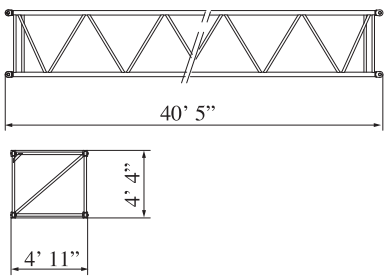
10 ft (3.0 m) Insert Boom
Weight: 800 lbs (364 kg)
Includes cable roller and guy lines



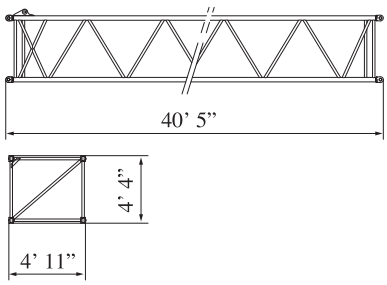
20 ft (6.1 m) Insert Boom
Weight: 1,400 lbs (613 kg)
Includes cable roller and guy lines



40 ft (12.2 m) Insert Boom
Weight: 2,400 lbs (1,098 kg)
Includes cable roller and guy lines



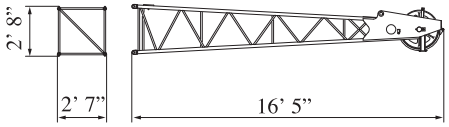
40 ft (12.2 m) Insert Boom (with lug)
Weight: 2,500 lbs (1,113 kg)
Includes cable roller and guy lines



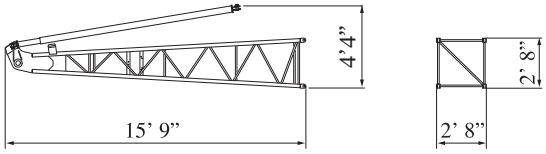
Dimensions and Weight

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

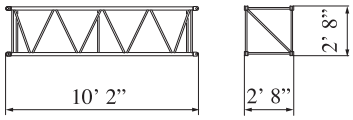
Jib Tip
Weight: 500 lbs (227 kg)
Includes cable roller.



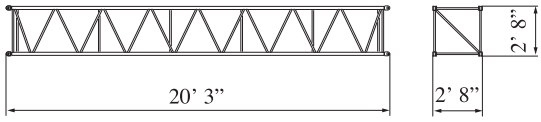
Jib Base and Strut
Weight: 1,400 lbs (637 kg)
Includes guy line.



10 ft (3.0 m) Insert Jib
Weight: 280 lbs (128 kg)
Includes cable roller and guy line.



20 ft (6.1 m) Jib Insert
Weight: 480 lbs (218 kg)
Includes cable roller and guy line.



Transportation Plan

Refer to pages 10-12

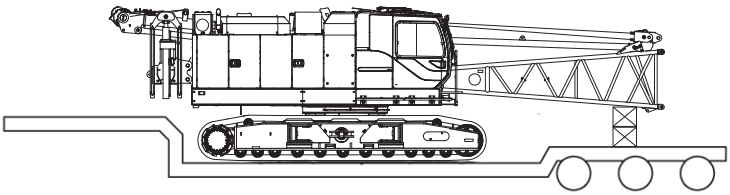
Shipping plan for 150 ft Boom

Description of Item	Weight lbs	Weight (kg)	Trailer Loads #1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	95,200	(43,150)	1			
Counterweight Base	18,200	(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 and Guy Line	800	(364)			1	
20 ft Insert Boom and Guy Line	1,400	(613)		1		
40 ft Insert Boom and Guy Line	2,400	(1,098)			1	
40 ft Insert Boom (w/ Lug) and Guy Line (A)	2,500	(1,113)				1
Boom Tip and Guy Line	2,900	(1,292)		1		
Jib Base and Guy Line	1,400	(637)				
10 ft Insert Jib and Guy Line	280	(128)				
20 ft Insert Jib and Guy Line	480	(218)				
Jib Tip	500	(227)				
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	95,200	39,000	41,300	39,390
		(kg)	(43,150)	(17,691)	(18,712)	(17,822)

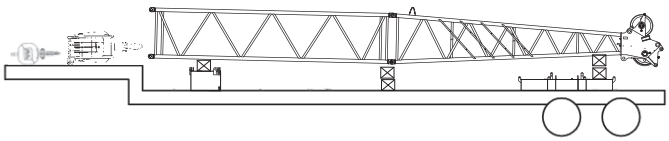
* Third drum is not included. Add 4,200 lbs if third drum is installed.

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.

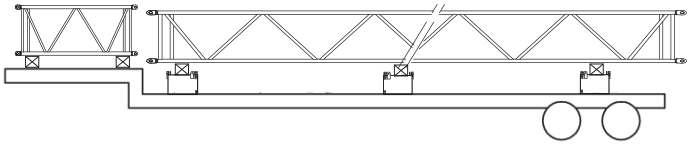
Trailer #1



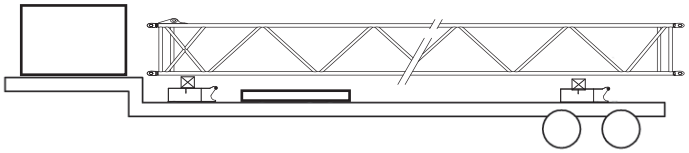
Trailer #2



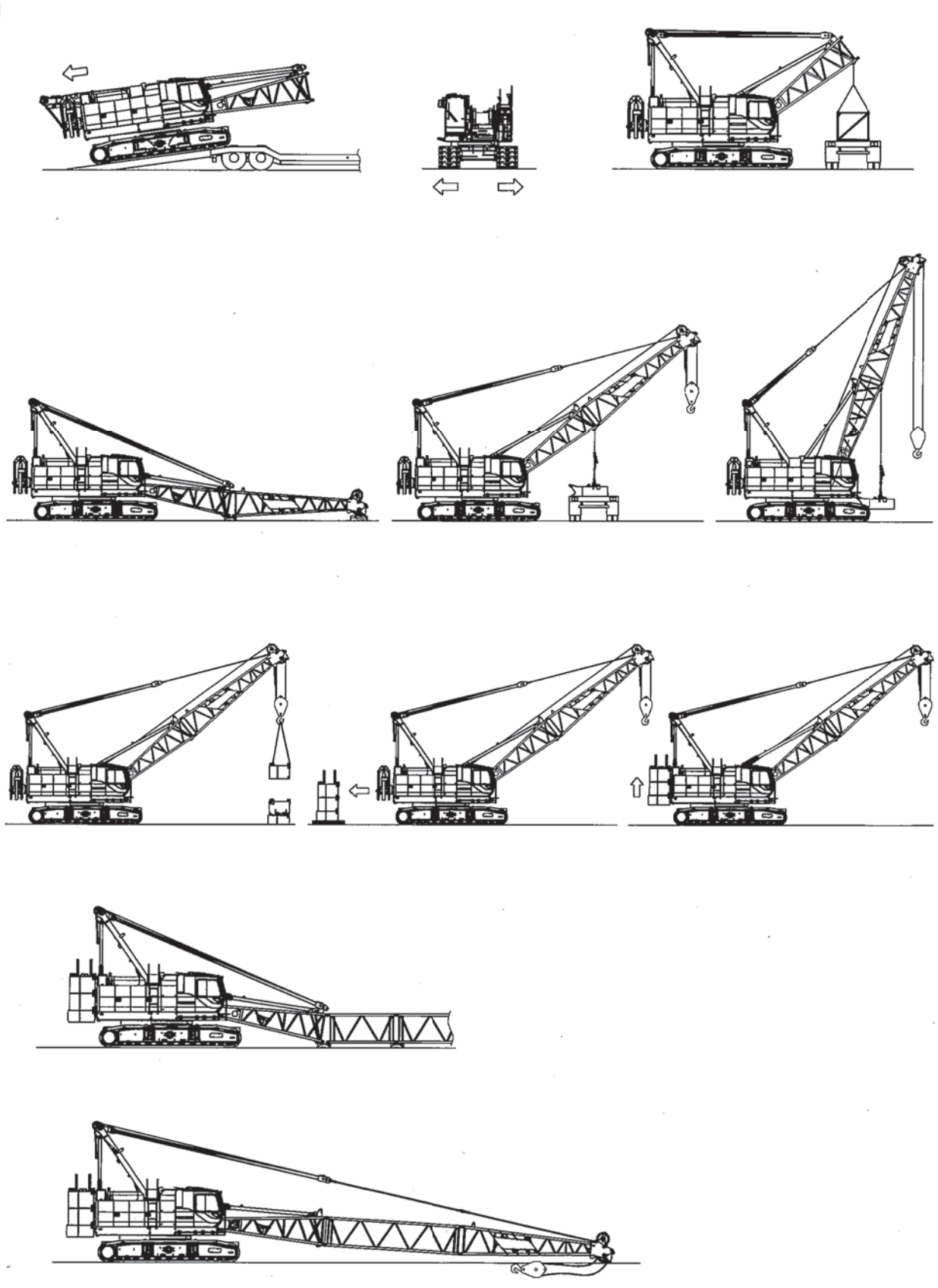
Trailer #3



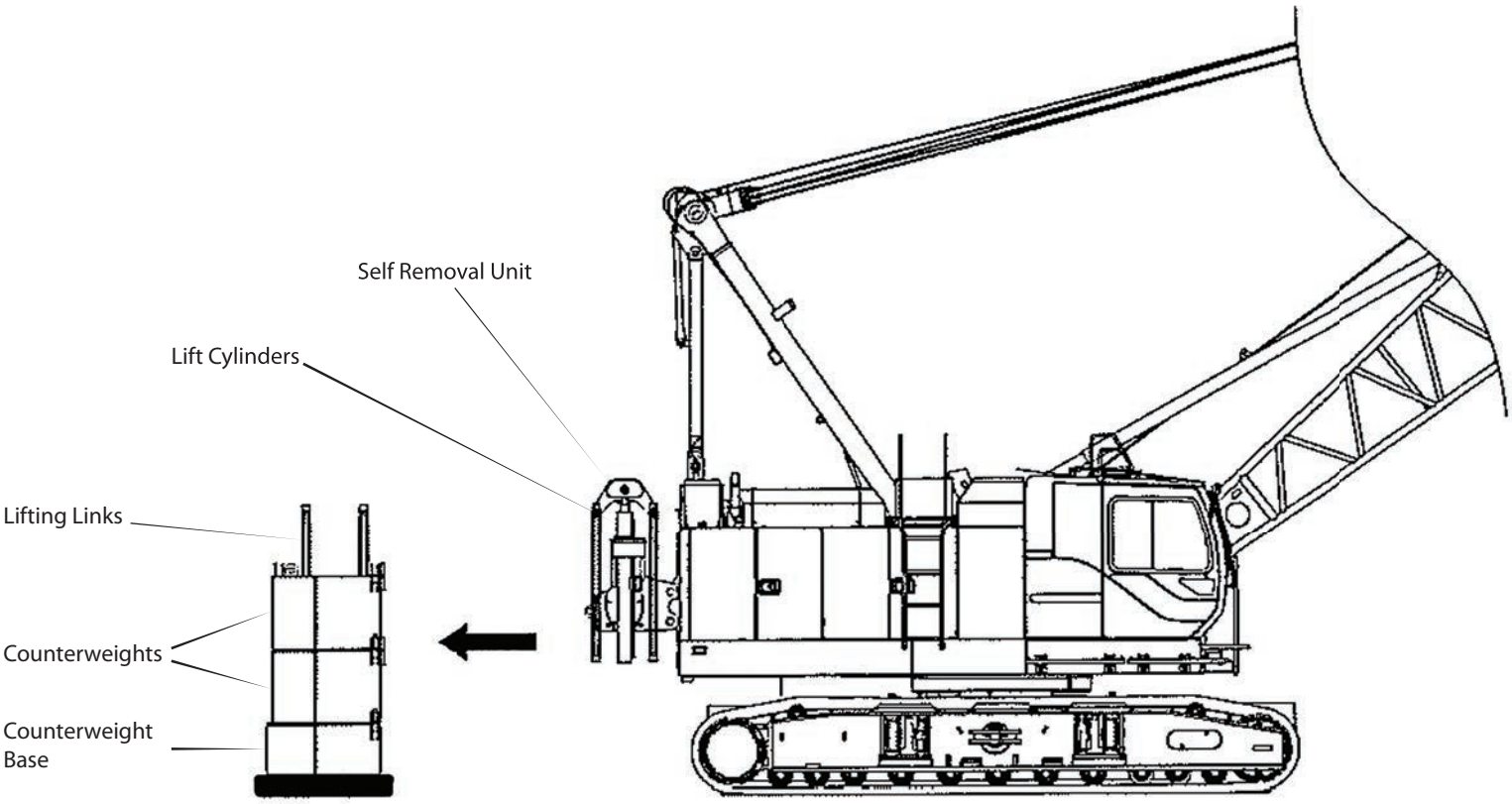
Trailer #4

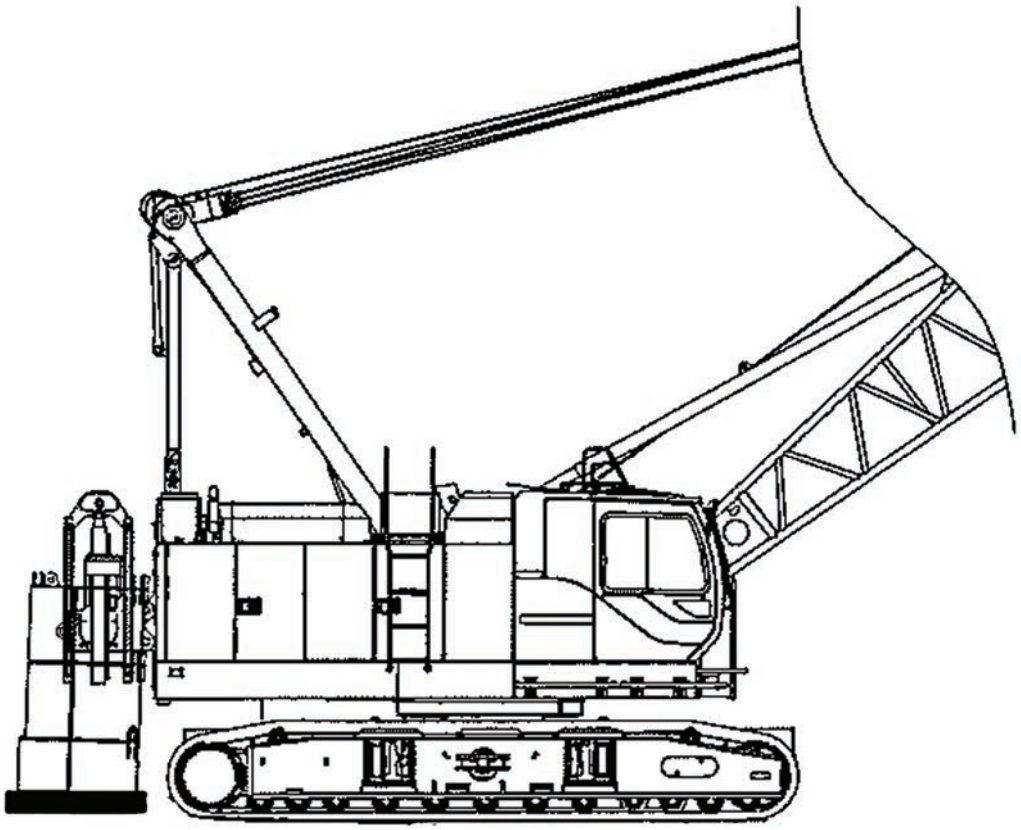


Self-Assembly Procedure



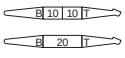
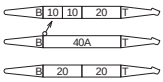
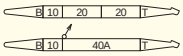
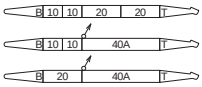
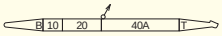
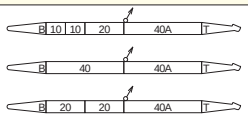
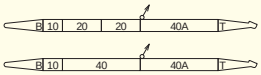
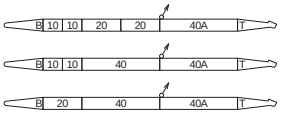
Counterweight Self-Removal Device

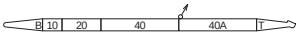
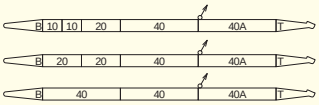
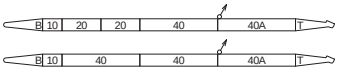
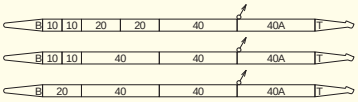
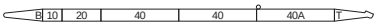
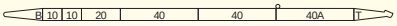




Boom and Fixed Jib Arrangement

Boom Arrangement

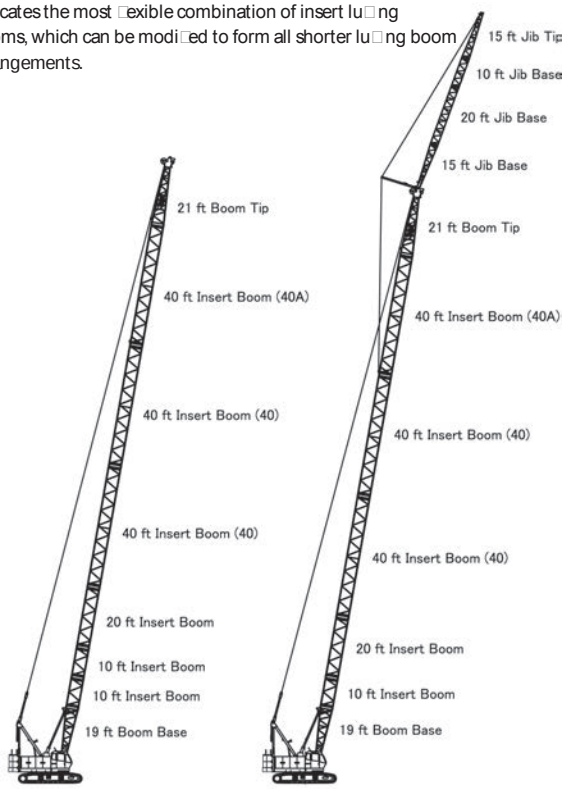
Boom length ft (m)	Boom arrangement
40 (12.2)	
50 (15.2)	
60 (18.3)	※ 
70 (21.3)	※
80 (24.4)	※ 
90 (27.4)	※ 
100 (30.5)	※ 
110 (33.5)	※ 
120 (36.6)	※ 
130 (39.6)	※ 
140 (42.7)	※ 

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
B	20.0 ft (6.1 m)	Boom Base
T	20.0 ft (6.1 m)	Boom Top
10	10.0 ft (3.1 m)	Insert Boom
20	20.0 ft (6.1 m)	Insert Boom
40	40.0 ft (12.2 m)	Insert Boom
40A	40.0 ft (12.2 m)	Insert Boom with lug

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

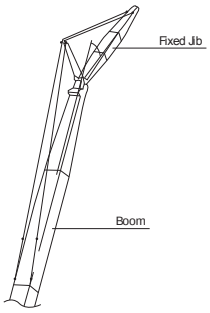
※ indicates the most flexible combination of insert luffing booms, which can be modified to form all shorter luffing boom arrangements.



Main Boom - 200 ft (61.0 m)

Main Boom - 190 ft (57.9 m)
Fixed Jib - 60 ft (18.3 m)

Fixed Jib Arrangement



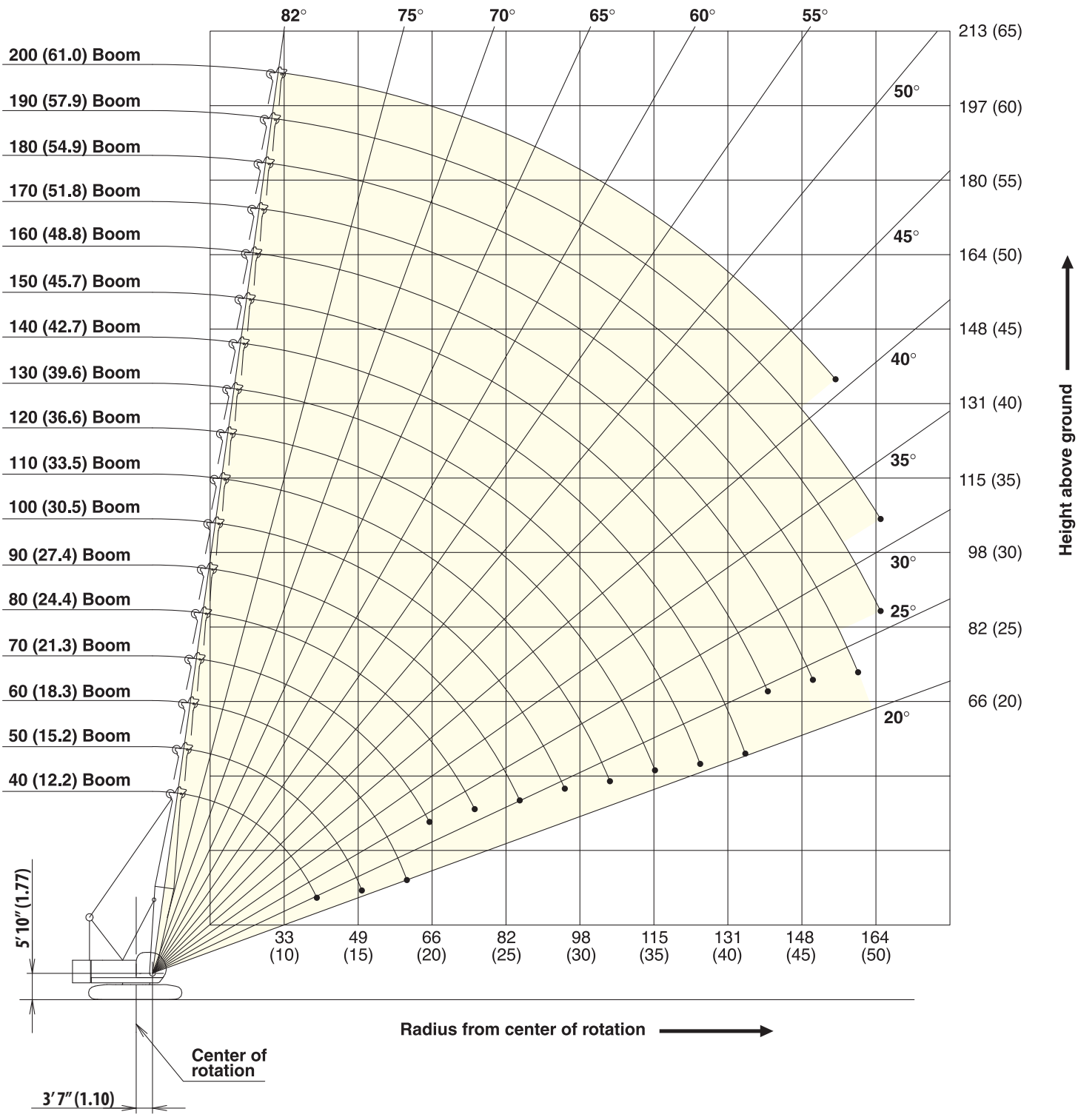
Crane boom length	Jib length ft (m)	Jib arrangement
80 ft (24.4 m) ~ 190 ft (57.9 m)	30 (9.1)	
	40 (12.2)	
	50 (15.2)	
	60 (18.3)	

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

Working Ranges

Main Boom

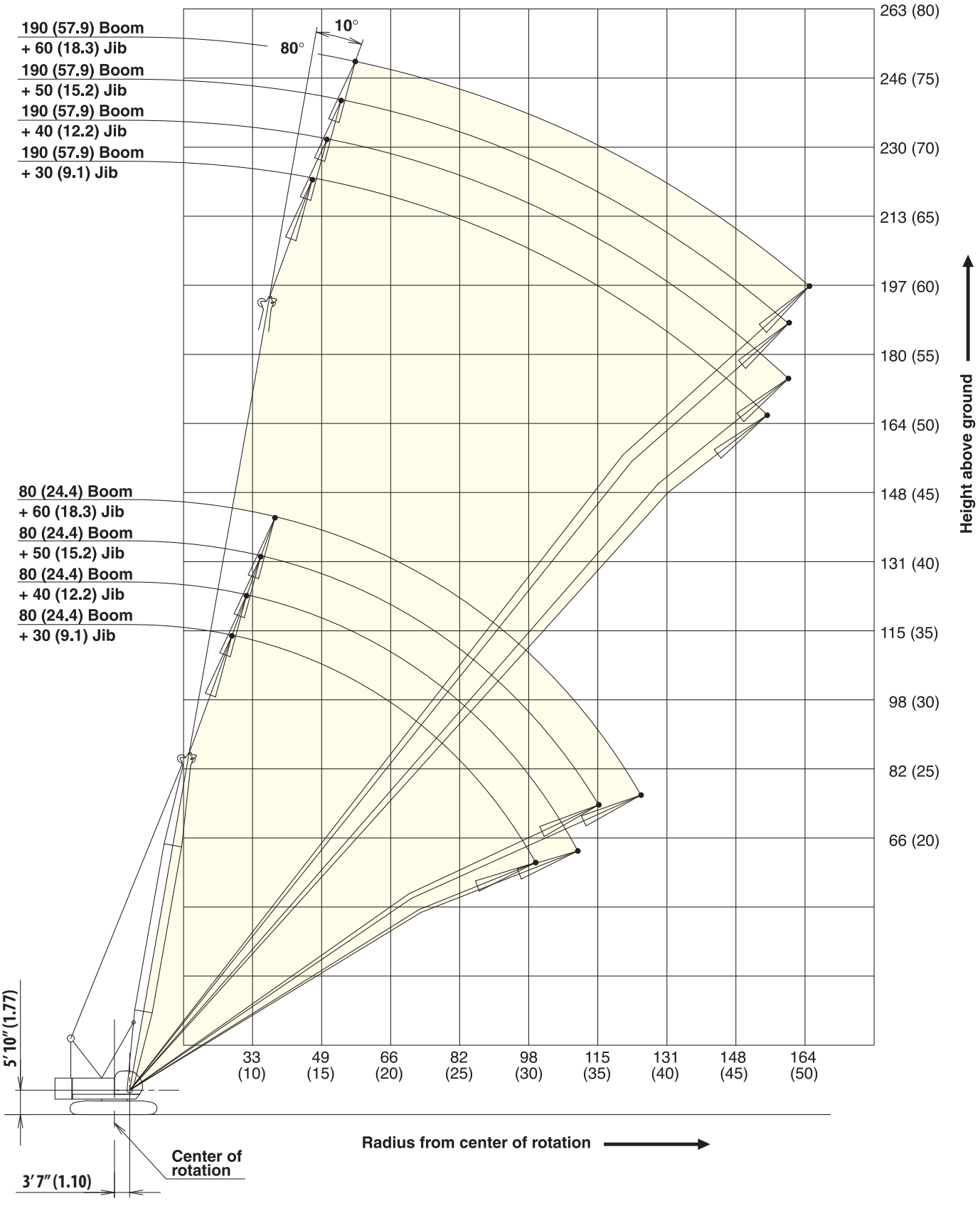
Unit : ft (m)



Working Ranges

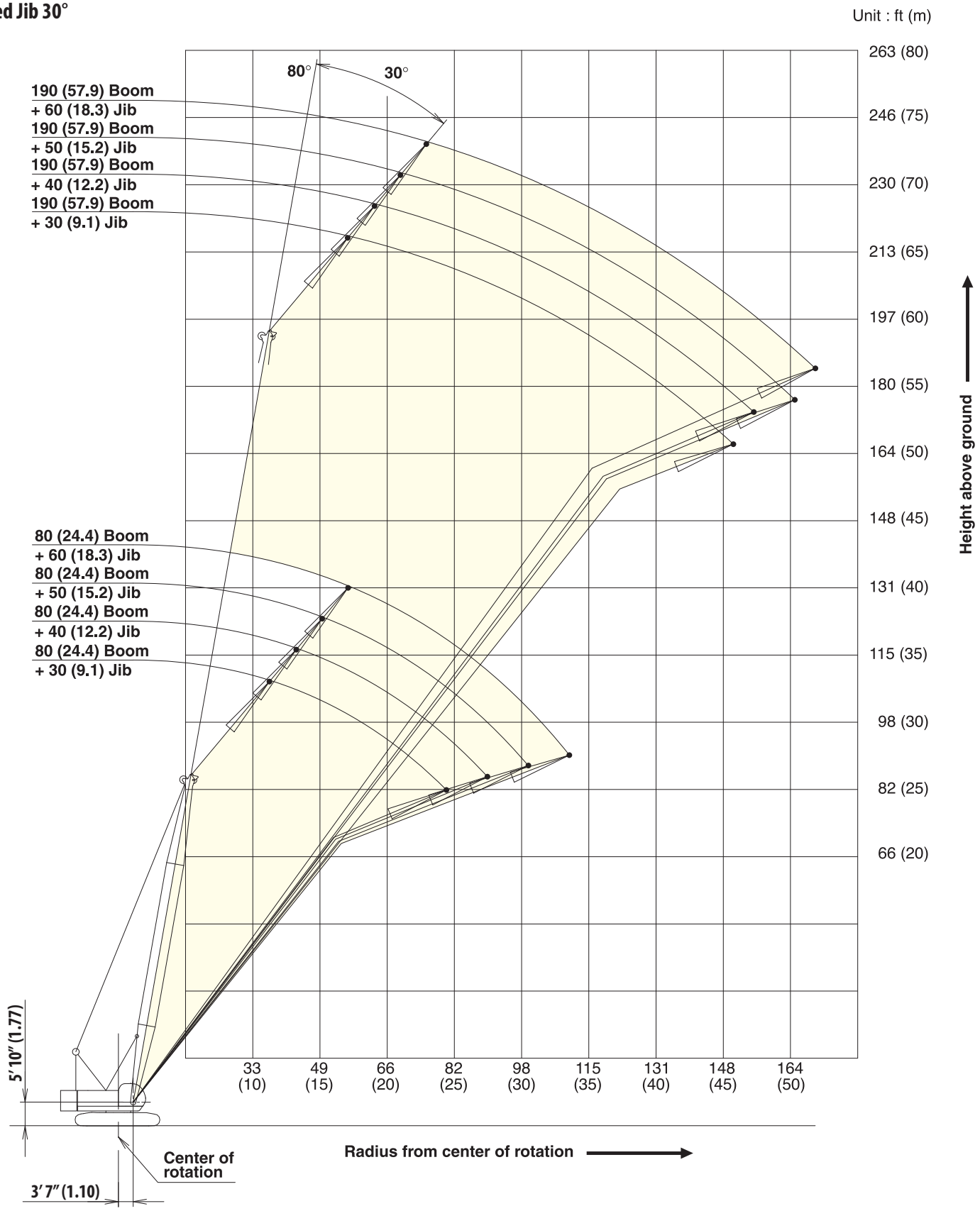
Fixed Jib 10°

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 CRANES CO., LTD. Modifications to this machine or use of equipment o than that specified can reduce operating capacity.

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

Main Boom Lift Capacity

Full Counterweight: 69,000 lbs Carbody 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: 69,000 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: 69,000 lbs Carbody Weight: 31,800

80' Boom

30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set 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**

90' Boom

30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set 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***			
												125.0	34.4	8,970*				135.0	33.8	7,010*			
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

*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: 69,000 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.)					
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	79.9	24,000*				36.0	80.0	24,000*				40.0	79.9	20,000*				45.0	79.3	18,000*			
34.0	**79.0**	**24,000***				**38.0**	**79.2**	**24,000***				**45.0**	**78.0**	**20,000***				**50.0**	**77.5**	**18,000***			
36.0	78.1	24,000*				40.0	78.4	24,000*				50.0	76.0	20,000*				55.0	75.5	17,720*			
38.0	**77.2**	**24,000***				**45.0**	**76.3**	**24,000***				**55.0**	**73.9**	**20,000***	**55.0**	**79.7**	**11,500***	**60.0**	**73.7**	**16,350***			
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*	65.0	71.8	15,160*	65.0	78.3	8,810*
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***	**70.0**	**69.9**	**14,130***	**70.0**	**76.3**	**8,420***
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*	75.0	67.8	13,160*	75.0	74.2	8,040*
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***	**80.0**	**65.8**	**12,360***	**80.0**	**72.1**	**7,710***
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*	85.0	63.8	11,660*	85.0	70.0	7,420*
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***	**90.0**	**61.7**	**11,040***	**90.0**	**67.9**	**7,160***
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*	95.0	59.5	10,420*	95.0	65.5	6,900*
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***	**100.0**	**57.3**	**9,920***	**100.0**	**63.2**	**6,670***
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*	105.0	55.1	9,450*	105.0	60.9	6,450*
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***	**110.0**	**52.7**	**9,030***	**110.0**	**58.4**	**6,280***
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*	115.0	50.2	8,610*	115.0	55.7	6,100*
95.0	**48.1**	**13,220**	**95.0**	**51.2**	**13,420**	**105.0**	**47.2**	**11,590**				**115.0**	**46.1**	**10,200***				**120.0**	**47.7**	**8,280***	**120.0**	**53.1**	**5,950***
100.0	45.0	12,270				110.0	44.3	10,840				120.0	43.2	9,590				125.0	45.1	7,950*			
105.0	**41.7**	**11,460**				**115.0**	**40.9**	**10,110**				**125.0**	**40.2**	**9,010**				**130.0**	**42.3**	**7,670***			
110.0	38.1	10,690				120.0	37.4	9,470				130.0	36.8	8,480				135.0	39.4	7,400*			
115.0	**34.0**	**9,980**				**125.0**	**33.7**	**8,860***				**135.0**	**33.2**	**7,800***				**140.0**	**35.9**	**7,140***			
																		145.0	32.4	6,810*			
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.)					
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)
34.0	79.8	24,000*				38.0	79.9	24,000*				45.0	78.8	20,000*				45.0	80.0	18,000*			
36.0	**79.0**	**24,000***				**40.0**	**79.2**	**24,000***				**50.0**	**76.9**	**20,000***				**50.0**	**78.3**	**18,000***			
38.0	78.2	24,000*				45.0	77.2	24,000*				55.0	75.0	20,000*				55.0	76.4	18,000*			
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***	**60.0**	**74.7**	**17,040***			
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*	65.0	72.9	15,820*	65.0	79.1	8,970*
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***	**70.0**	**71.1**	**14,770***	**70.0**	**77.2**	**8,570***
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*	75.0	69.2	13,800*	75.0	75.2	8,200*
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***	**80.0**	**67.3**	**12,960***	**80.0**	**73.3**	**7,890***
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*	85.0	65.5	12,230*	85.0	71.4	7,580*
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***	**90.0**	**63.6**	**11,590***	**90.0**	**69.4**	**7,310***
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*	95.0	61.5	10,950*	95.0	67.2	7,050*
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***	**100.0**	**59.5**	**10,420***	**100.0**	**65.2**	**6,830***
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*	105.0	57.5	9,940*	105.0	63.0	6,630*
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***	**110.0**	**55.4**	**9,500***	**110.0**	**60.8**	**6,430***
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*	115.0	53.1	9,080*	115.0	58.4	6,260*
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**				**120.0**	**50.9**	**8,700***	**120.0**	**56.1**	**6,100***
105.0	46.3	11,260				115.0	45.3	9,920				125.0	44.5	8,810				125.0	48.6	8,370*	125.0	53.6	5,970*
110.0	**43.3**	**10,510**				**120.0**	**42.5**	**9,300**				**130.0**	**41.8**	**8,280**				**130.0**	**46.2**	**8,060***			
115.0	39.9	9,780				125.0	39.4	8,730				135.0	38.8	7,800				135.0	43.6	7,780*			
120.0	**36.5**	**9,170**				**130.0**	**36.1**	**8,200**				**140.0**	**35.4**	**7,250***				**140.0**	**40.8**	**7,380**			
125.0	32.7	8,420*				135.0	32.5	7,420*										145.0	37.9	6,960			
																		150.0	**34.8**	**6,370***			
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

*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: 69,000 lbs Carbody Weight: 31,800

120' Boom

30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set 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)
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**	**16,460***	**65.0**	**79.7**	**9,080***
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	15,380*	70.0	78.0	8,700*
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**	**14,390***	**75.0**	**76.1**	**8,350***
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	13,550*	80.0	74.4	8,040*
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**	**12,780***	**85.0**	**72.6**	**7,730***
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	12,120*	90.0	70.7	7,470*
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**	**11,480***	**95.0**	**68.7**	**7,230***
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	10,930*	100.0	66.8	7,010*
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**	**10,420***	**105.0**	**64.9**	**6,790***
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	9,960*	110.0	62.9	6,610*
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**	**9,520***	**115.0**	**60.7**	**6,410***
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	9,140*	120.0	58.6	6,260*
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**	**8,610**	**125.0**	**56.4**	**6,100***
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	8,060	130.0	54.1	5,970*
115.0	**44.4**	**9,470**				**125.0**	**43.8**	**8,420**				**130.0**	**45.6**	**8,000**				**135.0**	**47.1**	**7,580**	**135.0**	**51.7**	**5,860***
120.0	41.6	8,860				130.0	41.1	7,890				135.0	43.1	7,510				140.0	44.6	7,090			
125.0	**38.5**	**8,280**				**135.0**	**38.1**	**7,420**				**140.0**	**40.3**	**7,030**				**145.0**	**42.2**	**6,670**			
130.0	35.2	7,690*				140.0	34.7	6,700*				145.0	37.4	6,540*				150.0	39.6	6,300			
135.0	**31.6**	**6,830***										**150.0**	**34.3**	**5,880***				**155.0**	**36.8**	**5,730***			
																		160.0	33.6	5,090*			
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					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set 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)
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**	**17,100***			
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	16,000*	70.0	78.7	8,840*
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**	**14,960***	**75.0**	**76.9**	**8,480***
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	14,100*	80.0	75.3	8,170*
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**	**13,330***	**85.0**	**73.6**	**7,890***
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	12,630*	90.0	71.9	7,620*
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**	**11,970***	**95.0**	**70.0**	**7,360***
85.0	61.6	14,790	85.0	64.5	15,180	95.0	60.3	12,650	95.0	63.9	11,440*	95.0	62.8	12,800	95.0	67.2	8,950*	100.0	63.1	11,410*	100.0	68.3	7,140*
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**	**10,890***	**105.0**	**66.5**	**6,940***
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	10,310	110.0	64.6	6,740*
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**	**9,560**	**115.0**	**62.6**	**6,560***
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	8,920	120.0	60.7	6,390*
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**	**8,350**	**125.0**	**58.7**	**6,230***
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	7,820	130.0	56.6	6,100*
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**	**7,310**	**135.0**	**54.5**	**5,970***
125.0	43.0	8,020				135.0	42.5	7,140				135.0	46.6	7,250				140.0	47.8	6,830	140.0	52.2	5,860*
130.0	**40.2**	**7,490**				**140.0**	**39.6**	**6,670**				**140.0**	**44.1**	**6,760**				**145.0**	**45.6**	**6,410**			
135.0	37.3	6,940*				145.0	36.8	6,040*				145.0	41.7	6,340				150.0	43.3	6,040			
140.0	**33.9**	**6,150***				**150.0**	**33.7**	**5,370***				**150.0**	**39.1**	**5,860***				**155.0**	**41.0**	**5,620***			
												155.0	36.3	5,260*				160.0	38.3	5,040*			
												160.0	**33.1**	**4,650***				**165.0**	**35.6**	**4,540***			
																		170.0	32.7	4,010*			
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

*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: 69,000 lbs Carbody Weight: 31,800

140' Boom

30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set 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)
40.0	79.6	24,000*				45.0	79.4	24,000*				50.0	79.1	20,000*				55.0	78.5	18,000*			
45.0	**77.9**	**24,000***				**50.0**	**77.8**	**24,000***				**55.0**	**77.4**	**20,000***				**60.0**	**77.0**	**18,000***			
50.0	76.2	24,000*	50.0	79.2	21,000*	55.0	76.1	24,000*	55.0	79.9	15,320*	60.0	75.9	20,000*				65.0	75.6	17,700*			
55.0	**74.4**	**24,000***	**55.0**	**77.4**	**21,000***	**60.0**	**74.4**	**24,000***	**60.0**	**78.2**	**14,720***	**65.0**	**74.3**	**20,000***	**65.0**	**78.8**	**11,170***	**70.0**	**74.1**	**16,570***	**70.0**	**79.3**	**8,950***
60.0	72.6	23,980	60.0	75.6	20,540*	65.0	72.8	21,730	65.0	76.5	14,170*	70.0	72.8	19,480*	70.0	77.2	10,780*	75.0	72.5	15,520*	75.0	77.7	8,590*
65.0	**70.9**	**21,450**	**65.0**	**73.8**	**19,770***	**70.0**	**71.1**	**19,590**	**70.0**	**74.8**	**13,690***	**75.0**	**71.1**	**17,850**	**75.0**	**75.5**	**10,380***	**80.0**	**71.0**	**14,630***	**80.0**	**76.1**	**8,310***
70.0	69.1	19,330	70.0	72.0	19,060*	75.0	69.3	17,650	75.0	72.9	13,180*	80.0	69.4	16,260	80.0	73.8	10,030*	85.0	69.4	13,840*	85.0	74.5	8,020*
75.0	**67.2**	**17,390**	**75.0**	**70.0**	**17,940**	**80.0**	**67.6**	**16,090**	**80.0**	**71.2**	**12,760***	**85.0**	**67.8**	**14,880**	**85.0**	**72.1**	**9,720***	**90.0**	**67.9**	**13,130***	**90.0**	**72.9**	**7,760***
80.0	65.3	15,850	80.0	68.1	16,330	85.0	65.9	14,720	85.0	69.4	12,380*	90.0	66.2	13,660	90.0	70.4	9,430*	95.0	66.2	12,450*	95.0	71.2	7,510*
85.0	**63.5**	**14,480**	**85.0**	**66.2**	**14,940**	**90.0**	**64.1**	**13,510**	**90.0**	**67.6**	**12,030***	**95.0**	**64.4**	**12,520**	**95.0**	**68.6**	**9,120***	**100.0**	**64.6**	**11,680**	**100.0**	**69.5**	**7,270***
90.0	61.6	13,290	90.0	64.3	13,690	95.0	62.2	12,360	95.0	65.6	11,680*	100.0	62.7	11,570	100.0	66.8	8,880*	105.0	63.0	10,820	105.0	67.8	7,070*
95.0	**59.5**	**12,160**	**95.0**	**62.2**	**12,540**	**100.0**	**60.3**	**11,410**	**100.0**	**63.7**	**11,370***	**105.0**	**60.9**	**10,710**	**105.0**	**65.0**	**8,660***	**110.0**	**61.4**	**10,050**	**110.0**	**66.1**	**6,870***
100.0	57.5	11,220	100.0	60.1	11,550	105.0	58.5	10,580	105.0	61.8	10,970	110.0	59.2	9,940	110.0	63.2	8,440*	115.0	59.6	9,300	115.0	64.3	6,700*
105.0	**55.5**	**10,380**	**105.0**	**58.1**	**10,690**	**110.0**	**56.6**	**9,810**	**110.0**	**59.8**	**10,180**	**115.0**	**57.3**	**9,190**	**115.0**	**61.2**	**8,220***	**120.0**	**57.9**	**8,660**	**120.0**	**62.5**	**6,520***
110.0	53.4	9,630	110.0	55.9	9,890	115.0	54.5	9,060	115.0	57.6	9,410	120.0	55.4	8,550	120.0	59.3	8,040*	125.0	56.1	8,060	125.0	60.7	6,370*
115.0	**51.1**	**8,900**	**115.0**	**53.5**	**9,120**	**120.0**	**52.5**	**8,420**	**120.0**	**55.5**	**8,730**	**125.0**	**53.5**	**7,980**	**125.0**	**57.3**	**7,870***	**130.0**	**54.3**	**7,530**	**130.0**	**58.8**	**6,230***
120.0	48.9	8,260	120.0	51.3	8,480	125.0	50.4	7,840	125.0	53.4	8,130	130.0	51.6	7,450	130.0	55.3	7,710*	135.0	52.5	7,030	135.0	56.9	6,100*
125.0	**46.6**	**7,690**				**130.0**	**48.2**	**7,310**				**135.0**	**49.5**	**6,940**	**135.0**	**53.1**	**7,250**	**140.0**	**50.5**	**6,540**	**140.0**	**54.7**	**5,970***
130.0	44.2	7,180				135.0	46.0	6,830				140.0	47.3	6,450				145.0	48.5	6,120	145.0	52.7	5,860*
135.0	**41.7**	**6,700**				**140.0**	**43.5**	**6,370**				**145.0**	**45.1**	**6,040**				**150.0**	**46.5**	**5,730**			
140.0	38.8	6,060*				145.0	41.1	5,880*				150.0	42.9	5,640*				155.0	44.4	5,350*			
145.0	**36.0**	**5,400***				**150.0**	**38.5**	**5,290***				**155.0**	**40.5**	**5,090***				**160.0**	**42.0**	**4,820***			
150.0	32.9	4,760*				155.0	35.7	4,690*				160.0	37.8	4,540*				165.0	39.7	4,340*			
						160.0	**32.5**	**4,070***				**165.0**	**35.1**	**4,010***				**170.0**	**37.3**	**3,880***			
												170.0	32.2	3,500*				175.0	34.7	3,410*			
Reeves		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**

150' Boom

30 ft Jib						40 ft Jib						50 ft Jib						60 ft Jib					
O set Angle (deg.)						O set Angle (deg.)						O set Angle (deg.)						O set 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)
45.0	78.6	24,000*				45.0	80.0	24,000*				50.0	79.6	20,000*				55.0	79.1	18,000*			
50.0	**77.0**	**24,000***	**50.0**	**79.9**	**21,000***	**50.0**	**78.5**	**24,000***				**55.0**	**78.1**	**20,000***				**60.0**	**77.7**	**18,000***			
55.0	75.3	24,000*	55.0	78.1	21,000*	55.0	76.8	24,000*				60.0	76.6	20,000*				65.0	76.3	18,000*			
60.0	**73.6**	**23,800**	**60.0**	**76.4**	**20,890***	**60.0**	**75.3**	**24,000***	**60.0**	**78.9**	**14,920***	**65.0**	**75.1**	**20,000***	**65.0**	**79.4**	**11,330***	**70.0**	**74.9**	**17,120***	**70.0**	**79.9**	**9,060***
65.0	72.0	21,270	65.0	74.8	20,150*	65.0	73.7	21,580	65.0	77.3	14,390*	70.0	73.7	19,640	70.0	77.9	10,930*	75.0	73.4	16,040*	75.0	78.3	8,700*
70.0	**70.3**	**19,150**	**70.0**	**73.1**	**19,440***	**70.0**	**72.1**	**19,420**	**70.0**	**75.7**	**13,910***	**75.0**	**72.1**	**17,680**	**75.0**	**76.3**	**10,530***	**80.0**	**71.9**	**15,160***	**80.0**	**76.8**	**8,420***
75.0	68.5	17,210	75.0	71.2	17,810	75.0	70.5	17,480	75.0	73.9	13,420*	80.0	70.5	16,090	80.0	74.7	10,200*	85.0	70.5	14,350*	85.0	75.3	8,130*
80.0	**66.8**	**15,670**	**80.0**	**69.5**	**16,200**	**80.0**	**68.8**	**15,890**	**80.0**	**72.3**	**13,000***	**85.0**	**69.0**	**14,700**	**85.0**	**73.1**	**9,870***	**90.0**	**69.0**	**13,620**	**90.0**	**73.8**	**7,890***
85.0	65.1	14,300	85.0	67.7	14,790	85.0	67.2	14,520	85.0	70.6	12,630*	90.0	67.5	13,490	90.0	71.5	9,590*	95.0	67.4	12,450	95.0	72.2	7,620*
90.0	**63.3**	**13,110**	**90.0**	**65.9**	**13,530**	**90.0**	**65.6**	**13,310**	**90.0**	**68.9**	**12,270***	**95.0**	**65.8**	**12,340**	**95.0**	**69.8**	**9,300***	**100.0**	**65.9**	**11,500**	**100.0**	**70.6**	**7,400***
95.0	61.4	11,990	95.0	63.9	12,360	95.0	63.8	12,190	95.0	67.1	11,920*	100.0	64.2	11,390	100.0	68.2	9,060*	105.0	64.4	10,640	105.0	69.1	7,200*
100.0	**59.6**	**11,040**	**100.0**	**62.1**	**11,390**	**100.0**	**62.1**	**11,240**	**100.0**	**65.3**	**11,610***	**105.0**	**62.6**	**10,530**	**105.0**	**66.5**	**8,810***	**110.0**	**62.9**	**9,850**	**110.0**	**67.5**	**7,010***
105.0	57.7	10,200	105.0	60.2	10,510	105.0	60.3	10,380	105.0	63.5	10,820	110.0	60.9	9,760	110.0	64.8	8,590*	115.0	61.2	9,100	115.0	65.7	6,830*
110.0	**55.8**	**9,430**	**110.0**	**58.2**	**9,720**	**110.0**	**58.6**	**9,610**	**110.0**	**61.7**	**10,030**	**115.0**	**59.1**	**9,010**	**115.0**	**62.9**	**8,390***	**120.0**	**59.6**	**8,460**	**120.0**	**64.1**	**6,650***
115.0	53.7	8,700	115.0	56.1	8,970	115.0	56.7	8,860	115.0	59.7	9,230	120.0	57.4	8,370	120.0	61.2	8,200*	125.0	58.0	7,870	125.0	62.4	6,500*
120.0	**51.7**	**8,090**	**120.0**	**54.0**	**8,310**	**120.0**	**54.8**	**8,240**	**120.0**	**57.8**	**8,570**	**125.0**	**55.7**	**7,780**	**125.0**	**59.3**	**8,020***	**130.0**	**56.3**	**7,340**	**130.0**	**60.7**	**6,370***
125.0	49.6	7,510	125.0	51.8	7,710	125.0	52.9	7,670	125.0	55.8	7,950	130.0	53.9	7,250	130.0	57.5	7,620	135.0	54.6	6,830	135.0	58.9	6,210*
130.0	**47.5**	**6,980**				**130.0**	**51.0**	**7,140**	**130.0**	**53.8**	**7,400**	**135.0**	**52.0**	**6,740**	**135.0**	**55.6**	**7,090**	**140.0**	**52.8**	**6,340**	**140.0**	**57.0**	**6,080***
135.0	45.3	6,500				135.0	49.0	6,630				140.0	50.0	6,260	140.0	53.4	6,590	145.0	51.0	5,930	145.0	55.1	5,970*
140.0	**42.8**	**6,010***				**140.0**	**46.7**	**6,170**				**145.0**	**48.1**	**5,840**				**150.0**	**49.2**	**5,530**	**150.0**	**53.1**	**5,880**
145.0	40.3	5,420*				145.0	44.6	5,750				150.0	46.0	5,460				155.0	47.3	5,150*			
150.0	**37.8**	**4,820***				**150.0**	**42.3**	**5,220***				**155.0**	**43.9**	**4,980***				**160.0**	**45.2**	**4,670***			
155.0	35.0	4,250*				155.0	39.9	4,690*				160.0	41.6	4,450*				165.0	43.1	4,230*			
160.0	**31.8**	**3,650***				**160.0**	**37.3**	**4,140***				**165.0**	**39.3**	**3,990***				**170.0**	**41.0**	**3,790***			
						165.0	34.6	3,610*				170.0	36.8	3,520*				175.0	38.7	3,370*			
												175.0	**34.2**	**3,060***									
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

*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: 69,000 lbs Carbody Weight: 31,800

160' 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)
45.0	79.2	24,000*				50.0	79.0	24,000*				55.0	78.7	20,000*				55.0	79.6	18,000*			
50.0	**77.7**	**24,000***				**55.0**	**77.5**	**24,000***				**60.0**	**77.3**	**20,000***				**60.0**	**78.3**	**18,000***			
55.0	76.1	24,000*	55.0	78.8	21,000*	60.0	76.0	24,000*	60.0	79.5	15,120*	65.0	75.9	20,000*	65.0	80.0	11,440*	65.0	76.9	18,000*			
60.0	**74.5**	**23,720**	**60.0**	**77.2**	**21,000***	**65.0**	**74.6**	**21,470**	**65.0**	**78.0**	**14,590***	**70.0**	**74.5**	**19,530**	**70.0**	**78.5**	**11,060***	**70.0**	**75.6**	**17,650***	**70.0**	**80.4**	**9,140***
65.0	73.0	21,180	65.0	75.6	20,500*	70.0	73.1	19,310	70.0	76.4	14,100*	75.0	72.9	17,570	75.0	77.0	10,670*	75.0	74.1	16,570*	75.0	78.9	8,810*
70.0	**71.4**	**19,040**	**70.0**	**74.0**	**19,730**	**75.0**	**71.5**	**17,370**	**75.0**	**74.8**	**13,640***	**80.0**	**71.5**	**15,980**	**80.0**	**75.5**	**10,330***	**80.0**	**72.8**	**15,670***	**80.0**	**77.5**	**8,530***
75.0	69.7	17,100	75.0	72.3	17,720	80.0	70.0	15,780	80.0	73.2	13,220*	85.0	70.1	14,590	85.0	74.0	10,030*	85.0	71.4	14,700	85.0	76.1	8,240*
80.0	**68.1**	**15,540**	**80.0**	**70.7**	**16,090**	**85.0**	**68.4**	**14,410**	**85.0**	**71.7**	**12,850***	**90.0**	**68.6**	**13,350**	**90.0**	**72.5**	**9,740***	**90.0**	**70.0**	**13,490**	**90.0**	**74.6**	**8,000***
85.0	66.5	14,190	85.0	69.0	14,680	90.0	66.9	13,200	90.0	70.1	12,500*	95.0	67.0	12,210	95.0	70.9	9,450*	95.0	68.5	12,340	95.0	73.1	7,760*
90.0	**64.8**	**12,980**	**90.0**	**67.3**	**13,440**	**95.0**	**65.2**	**12,050**	**95.0**	**68.4**	**12,140***	**100.0**	**65.5**	**11,260**	**100.0**	**69.3**	**9,210***	**100.0**	**67.1**	**11,370**	**100.0**	**71.6**	**7,530***
95.0	63.0	11,860	95.0	65.5	12,270	100.0	63.6	11,110	100.0	66.7	11,640	105.0	64.0	10,400	105.0	67.8	8,970*	105.0	65.7	10,490	105.0	70.2	7,310*
100.0	**61.3**	**10,910**	**100.0**	**63.8**	**11,280**	**105.0**	**62.0**	**10,250**	**105.0**	**65.1**	**10,730**	**110.0**	**62.5**	**9,610**	**110.0**	**66.2**	**8,770***	**110.0**	**64.2**	**9,720**	**110.0**	**68.7**	**7,140***
105.0	59.6	10,070	105.0	62.0	10,400	110.0	60.4	9,470	110.0	63.4	9,920	115.0	60.8	8,860	115.0	64.5	8,550*	115.0	62.7	8,970	115.0	67.0	6,940*
110.0	**57.9**	**9,300**	**110.0**	**60.2**	**9,610**	**115.0**	**58.6**	**8,730**	**115.0**	**61.5**	**9,120**	**120.0**	**59.2**	**8,220**	**120.0**	**62.8**	**8,350***	**120.0**	**61.2**	**8,310**	**120.0**	**65.5**	**6,790***
115.0	55.9	8,550	115.0	58.2	8,840	120.0	56.9	8,090	120.0	59.8	8,460	125.0	57.6	7,620	125.0	61.1	8,090	125.0	59.7	7,730	125.0	63.9	6,610*
120.0	**54.1**	**7,930**	**120.0**	**56.3**	**8,200**	**125.0**	**55.1**	**7,510**	**125.0**	**58.0**	**7,840**	**130.0**	**55.9**	**7,090**	**130.0**	**59.4**	**7,510**	**130.0**	**58.1**	**7,180**	**130.0**	**62.3**	**6,480***
125.0	52.2	7,360	125.0	54.4	7,580	130.0	53.3	6,960	130.0	56.1	7,270	135.0	54.2	6,590	135.0	57.6	6,980	135.0	56.5	6,670	135.0	60.7	6,340*
130.0	**50.2**	**6,830**	**130.0**	**52.4**	**7,030**	**135.0**	**51.5**	**6,480**	**135.0**	**54.2**	**6,760**	**140.0**	**52.4**	**6,100**	**140.0**	**55.7**	**6,450**	**140.0**	**54.8**	**6,190**	**140.0**	**58.9**	**6,210***
135.0	48.2	6,320				140.0	49.5	5,990	140.0	52.1	6,260	145.0	50.6	5,680	145.0	53.8	5,990	145.0	53.2	5,770	145.0	57.1	6,080*
140.0	**46.0**	**5,860**				**145.0**	**47.5**	**5,570**				**150.0**	**48.7**	**5,290**	**150.0**	**51.9**	**5,570**	**150.0**	**51.5**	**5,370**	**150.0**	**55.4**	**5,750**
145.0	43.9	5,310*				150.0	45.5	5,090*				155.0	46.8	4,800*				155.0	49.7	4,960*	155.0	53.5	5,350
150.0	**41.6**	**4,760***				**155.0**	**43.4**	**4,580***				**160.0**	**44.7**	**4,320***				**160.0**	**47.8**	**4,490***	**160.0**	**51.5**	**4,960**
155.0	39.2	4,230*				160.0	41.1	4,050*				165.0	42.7	3,880*				165.0	46.0	4,050*			
160.0	**36.6**	**3,680***				**165.0**	**38.7**	**3,590***				**170.0**	**40.6**	**3,430***				**170.0**	**44.1**	**3,650***			
165.0	33.9	3,170*				170.0	36.3	3,100*				175.0	38.3	3,020*				175.0	42.1	3,240*			
Reeves		1	Reeves		1	Reeves		1	Reeves		1	Reeves		1	Reeves		1	Reeves		1	Reeves		1

170' 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)
45.0	79.8	24,000*				50.0	79.6	24,000*				55.0	79.2	20,000*				55.0	80.0	18,000*			
50.0	**78.3**	**24,000***				**55.0**	**78.1**	**24,000***				**60.0**	**77.9**	**20,000***				**60.0**	**78.8**	**18,000***			
55.0	76.8	24,000*	55.0	79.4	21,000*	60.0	76.7	23,800	60.0	80.0	15,290*	65.0	76.5	20,000*				65.0	77.5	18,000*			
60.0	**75.3**	**23,500**	**60.0**	**77.9**	**21,000***	**65.0**	**75.3**	**21,250**	**65.0**	**78.6**	**14,770***	**70.0**	**75.2**	**19,310**	**70.0**	**79.1**	**11,170***	**70.0**	**76.2**	**18,000***			
65.0	73.8	20,940	65.0	76.4	20,830*	70.0	73.9	19,090	70.0	77.1	14,300*	75.0	73.8	17,350	75.0	77.6	10,800*	75.0	74.9	17,080*	75.0	79.4	8,900*
70.0	**72.4**	**18,820**	**70.0**	**74.9**	**19,530**	**75.0**	**72.4**	**17,150**	**75.0**	**75.6**	**13,840***	**80.0**	**72.4**	**15,760**	**80.0**	**76.2**	**10,490***	**80.0**	**73.6**	**15,890**	**80.0**	**78.1**	**8,610***
75.0	70.8	16,880	75.0	73.2	17,520	80.0	71.0	15,560	80.0	74.1	13,420*	85.0	71.0	14,370	85.0	74.8	10,180*	85.0	72.3	14,500	85.0	76.7	8,350*
80.0	**69.3**	**15,320**	**80.0**	**71.7**	**15,890**	**85.0**	**69.5**	**14,170**	**85.0**	**72.6**	**13,050***	**90.0**	**69.6**	**13,130**	**90.0**	**73.4**	**9,890***	**90.0**	**71.0**	**13,270**	**90.0**	**75.4**	**8,110***
85.0	67.7	13,950	85.0	70.1	14,480	90.0	68.1	12,960	90.0	71.1	12,690*	95.0	68.2	11,990	95.0	71.9	9,610*	95.0	69.5	12,100	95.0	73.9	7,870*
90.0	**66.2**	**12,740**	**90.0**	**68.6**	**13,240**	**95.0**	**66.5**	**11,810**	**95.0**	**69.5**	**12,360***	**100.0**	**66.7**	**11,020**	**100.0**	**70.4**	**9,360***	**100.0**	**68.2**	**11,150**	**100.0**	**72.5**	**7,640***
95.0	64.5	11,610	95.0	66.9	12,050	100.0	65.0	10,860	100.0	68.0	11,440	105.0	65.3	10,160	105.0	68.9	9,120*	105.0	66.8	10,270	105.0	71.1	7,450*
100.0	**62.9**	**10,670**	**100.0**	**65.2**	**11,080**	**105.0**	**63.5**	**10,000**	**105.0**	**66.4**	**10,530**	**110.0**	**63.9**	**9,390**	**110.0**	**67.4**	**8,900***	**110.0**	**65.5**	**9,470**	**110.0**	**69.7**	**7,250***
105.0	61.3	9,810	105.0	63.6	10,200	110.0	61.9	9,230	110.0	64.8	9,720	115.0	62.3	8,610	115.0	65.8	8,680*	115.0	64.0	8,730	115.0	68.2	7,050*
110.0	**59.7**	**9,060**	**110.0**	**61.9**	**9,390**	**115.0**	**60.3**	**8,480**	**115.0**	**63.1**	**8,920**	**120.0**	**60.8**	**7,980**	**120.0**	**64.3**	**8,500**	**120.0**	**62.6**	**8,090**	**120.0**	**66.7**	**6,900***
115.0	57.9	8,310	115.0	60.1	8,610	120.0	58.7	7,840	120.0	61.5	8,240	125.0	59.3	7,400	125.0	62.7	7,890	125.0	61.1	7,490	125.0	65.2	6,740*
120.0	**56.2**	**7,670**	**120.0**	**58.3**	**7,980**	**125.0**	**57.0**	**7,270**	**125.0**	**59.8**	**7,640**	**130.0**	**57.7**	**6,850**	**130.0**	**61.1**	**7,310**	**130.0**	**59.7**	**6,940**	**130.0**	**63.7**	**6,590***
125.0	54.4	7,090	125.0	56.5	7,360	130.0	55.4	6,720	130.0	58.1	7,070	135.0	56.1	6,340	135.0	59.5	6,760	135.0	58.2	6,450	135.0	62.2	6,450*
130.0	**52.6**	**6,560**	**130.0**	**54.7**	**6,810**	**135.0**	**53.7**	**6,230**	**135.0**	**56.3**	**6,540**	**140.0**	**54.4**	**5,860**	**140.0**	**57.7**	**6,260**	**140.0**	**56.6**	**5,950**	**140.0**	**60.5**	**6,300***
135.0	50.8	6,080	135.0	52.8	6,300	140.0	51.8	5,750	140.0	54.4	6,040	145.0	52.8	5,440	145.0	56.0	5,790	145.0	55.1	5,530	145.0	58.9	5,970
140.0	**48.8**	**5,590**				**145.0**	**50.1**	**5,290***	**145.0**	**52.6**	**5,590**	**150.0**	**51.1**	**4,960***	**150.0**	**54.2**	**5,370**	**150.0**	**53.5**	**5,070***	**150.0**	**57.3**	**5,550**
145.0	46.8	5,040*				150.0	48.2	4,780*				155.0	49.3	4,490*	155.0	52.4	4,930*	155.0	51.9	4,620*	155.0	55.6	5,150
150.0	**44.8**	**4,540***				**155.0**	**46.3**	**4,320***				**160.0**	**47.4**	**4,030***				**160.0**	**50.1**	**4,160***	**160.0**	**53.8**	**4,670***
155.0	42.7	4,030*				160.0	44.2	3,810*				165.0	45.6	3,610*				165.0	48.5	3,760*	165.0	52.0	4,250*
160.0	**40.4**	**3,520***				**165.0**	**42.2**	**3,370***				**170.0**	**43.7**	**3,190***				**170.0**	**46.7**	**3,370***			
165.0	38.1	3,040*																					
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

*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: 69,000 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		
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*				155.0	51.5	4,100*	155.0	54.5	4,560*	160.0	52.2	3,760*	160.0	55.8	4,290*
155.0	**45.7**	**3,680***				**160.0**	**46.9**	**3,460***				**160.0**	**49.8**	**3,630***	**160.0**	**52.7**	**4,070***	**165.0**	**50.6**	**3,370***	**165.0**	**54.1**	**3,880***
160.0	43.6	3,210*				165.0	45.1	3,040*				165.0	48.1	3,240*							170.0	52.4	3,480*
Reeves		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**	**Reeves**		**1**

190' 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)
50.0	79.4	19,440*				55.0	79.2	18,950*				60.0	78.9	18,470*				60.0	79.7	18,000*			
55.0	**78.0**	**19,020***				**60.0**	**77.9**	**18,560***				**65.0**	**77.7**	**18,070***				**65.0**	**78.5**	**17,960***			
60.0	76.7	18,620*	60.0	79.0	18,250*	65.0	76.6	18,160*	65.0	79.6	15,100*	70.0	76.5	17,700*				70.0	77.4	17,590*			
65.0	**75.4**	**18,250***	**65.0**	**77.7**	**17,870***	**70.0**	**75.4**	**17,810***	**70.0**	**78.3**	**14,660***	**75.0**	**75.2**	**16,930**	**75.0**	**78.7**	**11,040***	**75.0**	**76.1**	**17,080**			
70.0	74.0	17,870*	70.0	76.3	17,520*	75.0	74.0	16,710	75.0	76.9	14,190*	80.0	73.9	15,320	80.0	77.5	10,730*	80.0	74.9	15,470	80.0	79.1	8,790*
75.0	**72.6**	**16,420**	**75.0**	**74.9**	**17,150**	**80.0**	**72.7**	**15,120**	**80.0**	**75.6**	**13,800***	**85.0**	**72.7**	**13,930**	**85.0**	**76.2**	**10,420***	**85.0**	**73.8**	**14,060**	**85.0**	**77.9**	**8,550***
80.0	71.2	14,850	80.0	73.5	15,520	85.0	71.4	13,730	85.0	74.3	13,420*	90.0	71.4	12,690	90.0	74.9	10,160*	90.0	72.6	12,830	90.0	76.6	8,310*
85.0	**69.9**	**13,490**	**85.0**	**72.1**	**14,080**	**90.0**	**70.1**	**12,520**	**90.0**	**72.9**	**13,090***	**95.0**	**70.1**	**11,550**	**95.0**	**73.5**	**9,870***	**95.0**	**71.3**	**11,680**	**95.0**	**75.3**	**8,060***
90.0	68.5	12,270	90.0	70.7	12,850	95.0	68.7	11,370	95.0	71.5	12,050	100.0	68.8	10,580	100.0	72.2	9,630*	100.0	70.1	10,710	100.0	74.1	7,840*
95.0	**67.0**	**11,150**	**95.0**	**69.2**	**11,660**	**100.0**	**67.3**	**10,420**	**100.0**	**70.1**	**11,040**	**105.0**	**67.5**	**9,720**	**105.0**	**70.9**	**9,410***	**105.0**	**68.8**	**9,830**	**105.0**	**72.8**	**7,640***
100.0	65.6	10,200	100.0	67.7	10,670	105.0	66.0	9,540	105.0	68.7	10,140	110.0	66.2	8,920	110.0	69.6	9,190*	110.0	67.6	9,030	110.0	71.5	7,450*
105.0	**64.1**	**9,340**	**105.0**	**66.3**	**9,780**	**110.0**	**64.6**	**8,770**	**110.0**	**67.3**	**9,320**	**115.0**	**64.8**	**8,170**	**115.0**	**68.1**	**8,810**	**115.0**	**66.3**	**8,260***	**115.0**	**70.2**	**7,270***
110.0	62.7	8,570	110.0	64.8	8,970	115.0	63.1	8,020	115.0	65.8	8,530	120.0	63.5	7,510	120.0	66.7	8,130	120.0	65.0	7,580*	120.0	68.9	7,090*
115.0	**61.1**	**7,840**	**115.0**	**63.2**	**8,200**	**120.0**	**61.7**	**7,380**	**120.0**	**64.3**	**7,840**	**125.0**	**62.1**	**6,900***	**125.0**	**65.3**	**7,490**	**125.0**	**63.7**	**6,940***	**125.0**	**67.5**	**6,940***
120.0	59.6	7,200	120.0	61.7	7,530	125.0	60.3	6,790	125.0	62.9	7,230	130.0	60.8	6,300*	130.0	63.9	6,870*	130.0	62.4	6,370*	130.0	66.2	6,790*
125.0	**58.1**	**6,630**	**125.0**	**60.1**	**6,940**	**130.0**	**58.8**	**6,190***	**130.0**	**61.4**	**6,650**	**135.0**	**59.4**	**5,750***	**135.0**	**62.5**	**6,300***	**135.0**	**61.1**	**5,820***	**135.0**	**64.8**	**6,480***
130.0	56.6	6,040*	130.0	58.5	6,370	135.0	57.4	5,640*	135.0	59.9	6,080*	140.0	57.9	5,200*	140.0	60.9	5,730*	140.0	59.7	5,260*	140.0	63.4	5,900*
135.0	**55.0**	**5,460***	**135.0**	**56.9**	**5,790***	**140.0**	**55.8**	**5,070***	**140.0**	**58.2**	**5,510***	**145.0**	**56.4**	**4,710***	**145.0**	**59.5**	**5,220***	**145.0**	**58.3**	**4,780***	**145.0**	**62.0**	**5,400***
140.0	53.3	4,890*	140.0	55.2	5,220*	145.0	54.2	4,580*	145.0	56.6	4,980*	150.0	55.0	4,250*	150.0	57.9	4,730*	150.0	56.9	4,340*	150.0	60.5	4,930*
145.0	**51.6**	**4,380***	**145.0**	**53.5**	**4,690***	**150.0**	**52.7**	**4,120***	**150.0**	**55.0**	**4,490***	**155.0**	**53.5**	**3,810***	**155.0**	**56.4**	**4,290***	**155.0**	**55.5**	**3,900***	**155.0**	**59.1**	**4,470***
150.0	50.0	3,920*	150.0	51.8	4,210*	155.0	51.0	3,680*	155.0	53.4	4,030*	160.0	51.8	3,370*	160.0	54.7	3,830*	160.0	54.0	3,480*	160.0	57.5	4,030*
155.0	**48.2**	**3,460***				**160.0**	**49.3**	**3,210***							**165.0**	**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**

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.

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 43,600 lbs (2) Counterweights installed, and without carbody weights.

4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.

5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.

6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.

7. The boom should be erected over the front of the crawlers, not laterally.

8. Least stable position is over the side.

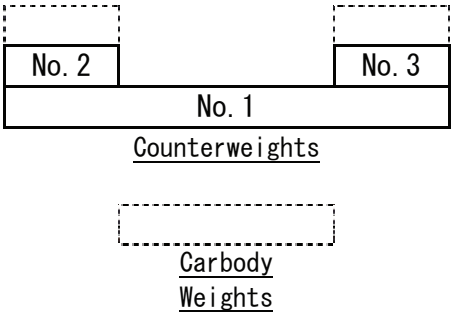
9. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1
Maximum Loads (lbs)	22,000

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

11. Assembling the Counterweight
    43,600 lbs counterweight (No. 1 ~ No. 3)
    Without Carbody weights



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

Clamshell

Boom:
Welded lattice construction using tubular, high-tensile steel chords with pin connections between each section.
Basic boom length: 40 ft (12.2 m)
Max. boom length: 120 ft (36.6 m)
Limit on clamshell bucket weight: 4,600 lbs (2,100 kg)
Optional tagline: Hydraulic operated type and spring type.

Boom Component Chart:

Boom length ft (m)	Boom arrangement
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 (43,600 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 (43,600 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 69,000 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 light than the recommended weight, the jib may turn over backw 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 CRANES CO., LTD. Modifications to this machine or use of equipment ot than that specified can reduce operating capacity.

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

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

40' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
11.0	80.5	220,000 *			
12.0	79.0	213,300 *			
13.0	77.5	200,800 *			
14.0	76.0	188,100 *			
15.0	74.6	175,900 *	175,900 *		
16.0	73.1	165,500 *	165,500 *		
17.0	71.6	156,300 *	156,300 *	127,700 *	
18.0	70.1	147,800 *	146,400 *	126,100 *	
19.0	68.5	140,500 *	134,600 *	122,400 *	
20.0	66.9	132,800	124,900	116,500 *	100,300 *
22.0	63.7	115,600	108,300	103,400	97,800 *
24.0	60.4	101,300	95,600	92,000	88,400
26.0	57.0	89,600	85,600	82,700	79,900
28.0	53.4	80,900	77,400	75,100	72,900
30.0	49.8	73,300	70,600	68,700	67,000
32.0	45.8	67,200	64,800	63,400	62,000
34.0	41.2	61,700	60,000	58,900	57,800
36.0	36.2	56,600	55,700 *	54,700 *	53,700 *
38.0	31.1	51,500	51,000 *	49,700 *	48,400 *
40.0	25.4	45,900 *	44,800 *	43,600 *	42,500 *
Reeves		8	7	6	4

50' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
12.0	81.2	213,200 *			
13.0	80.0	200,600 *			
14.0	78.9	187,800 *			
15.0	77.7	175,600 *			
16.0	76.6	165,300 *			
17.0	75.4	156,000 *			
18.0	74.2	147,400 *	143,200 *		
19.0	72.9	140,100 *	132,200 *		
20.0	71.7	132,400	122,900		
22.0	69.3	115,300	106,800	98,500 *	
24.0	66.8	101,000	94,400	89,500 *	77,800 *
26.0	64.3	89,400	84,500	80,700	75,600 *
28.0	61.7	80,700	76,400	73,400	70,700
30.0	59.1	73,000	69,700	67,200	64,900
32.0	56.3	67,000	63,900	61,900	60,000
34.0	53.4	62,000	59,100	57,400	55,900
36.0	50.3	57,800	55,000	53,600	52,300
38.0	47.3	53,600	51,400	50,100	49,000
40.0	44.0	49,800	48,100	47,200	46,300
42.0	40.4	47,000	45,400	44,600	43,800
44.0	36.7	44,300	42,900	42,200	41,500
46.0	62.9	41,500	40,600	40,000	39,500
48.0	27.6	38,300	38,200 *	37,400 *	36,700 *
50.0	22.3	35,100	34,800 *	33,900 *	
Reeves		8	6	4	4

60' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
13.0	81.7	200,400 *			
14.0	80.7	187,400 *			
15.0	79.8	175,200 *			
16.0	78.8	164,800 *			
17.0	77.8	155,500 *			
18.0	76.8	146,900 *			
19.0	75.9	139,800 *	123,900 *		
20.0	74.9	132,200	118,100 *		
22.0	72.9	115,100	105,300		
24.0	70.9	100,800	93,000	81,600 *	
26.0	68.8	89,100	83,200	78,700	
28.0	66.7	80,500	75,300	71,600	63,000 *
30.0	64.6	72,800	68,700	65,700	61,500 *
32.0	62.5	66,600	63,200	60,600	58,400
34.0	60.3	61,600	58,400	56,200	54,400
36.0	58.0	57,300	54,200	52,400	50,800
38.0	55.7	53,100	50,600	49,100	47,700
40.0	53.4	49,300	47,500	46,100	44,900
42.0	50.9	46,600	44,600	43,500	42,400
44.0	48.3	43,800	42,100	41,100	40,200
46.0	45.8	41,100	39,800	38,900	38,100
48.0	42.8	39,200	37,700	37,000	36,300
50.0	39.9	37,200	35,900	35,300	34,800
55.0	31.2	32,900	31,900 *	31,500 *	31,100 *
60.0	20.7	28,600 *			
Reeves		8	5	4	4

70' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
15.0	81.3	151,000 *			
16.0	80.4	151,000 *			
17.0	79.6	149,400 *			
18.0	78.7	146,700 *			
19.0	77.9	139,800 *			
20.0	77.1	132,200			
22.0	75.4	115,400			
24.0	73.7	101,300	92,400		
26.0	72.0	89,600	82,800	68,700 *	
28.0	70.3	80,800	75,000	67,400 *	
30.0	68.5	73,000	68,500	65,000	53,600 *
32.0	66.7	67,000	63,000	60,100	51,800 *
34.0	64.9	62,000	58,300	55,700	49,900 *
36.0	63.0	57,800	54,200	52,100	47,900 *
38.0	61.2	53,600	50,600	48,700	45,800
40.0	59.3	49,800	47,400	45,700	43,800
42.0	57.3	46,900	44,600	43,100	41,500
44.0	55.3	44,100	42,100	40,800	39,700
46.0	53.3	41,300	39,800	38,700	37,700
48.0	51.2	39,400	37,700	36,700	35,900
50.0	49.0	37,400	35,900	35,100	34,300
55.0	43.2	33,200	32,000	31,400	30,800
60.0	36.9	29,600	28,800	28,400	28,100
65.0	29.2	26,800	26,300 *	26,000 *	25,800 *
Reeves		6	4	4	4

80' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
16.0	81.6	151,000 *			
17.0	80.9	149,300 *			
18.0	80.2	146,500 *			
19.0	79.5	139,400 *			
20.0	78.8	131,800			
22.0	77.3	115,100			
24.0	75.8	101,000			
26.0	74.3	89,200	81,800		
28.0	72.8	80,500	74,100		
30.0	71.2	72,800	67,700	58,100 *	
32.0	69.7	66,600	62,200	57,100 *	46,400 *
34.0	68.2	61,600	57,500	54,700	44,700 *
36.0	66.6	57,300	53,500	51,000	43,300 *
38.0	65.1	53,100	50,000	47,800	41,800 *
40.0	63.5	49,300	46,800	45,000	40,400 *
42.0	61.8	46,600	44,100	42,400	39,000 *
44.0	60.2	43,800	41,600	40,100	37,700
46.0	58.5	41,100	39,300	38,000	36,200
48.0	56.8	39,100	37,300	36,200	34,800
50.0	55.1	37,100	35,500	34,500	33,600
55.0	50.5	32,700	31,500	30,800	30,000
60.0	45.7	29,200	28,300	27,700	27,200
65.0	40.4	26,300	25,700	25,300	24,800
70.0	34.3	24,100	23,400	23,100	22,800
75.0	26.9	22,100	21,500	21,300	21,100
Reeves		6	4	4	2

90' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
17.0	81.9	125,800 *			
18.0	81.3	125,800 *			
19.0	80.7	125,800 *			
20.0	80.0	124,000 *			
22.0	78.7	112,500 *			
24.0	77.4	100,800			
26.0	76.1	89,100			
28.0	74.8	80,500	73,000 *		
30.0	73.5	72,800	66,900		
32.0	72.1	66,600	61,600	50,600 *	
34.0	70.8	61,600	56,900	49,600 *	
36.0	69.4	57,300	53,000	49,000 *	39,900 *
38.0	68.0	53,100	49,500	47,000	38,500 *
40.0	66.6	49,300	46,300	44,200	37,600 *
42.0	65.2	46,500	43,600	41,700	36,400 *
44.0	63.8	43,700	41,100	39,500	35,400 *
46.0	62.4	40,900	38,900	37,400	34,300
48.0	60.9	38,900	36,900	35,600	33,200
50.0	59.4	36,900	35,100	34,000	32,000
55.0	55.7	32,500	31,200	30,300	29,200
60.0	51.7	29,000	28,100	27,400	26,600
65.0	47.4	26,100	25,400	24,800	24,200
70.0	42.9	23,800	23,100	22,700	22,200
75.0	37.9	21,800	21,200	20,800	20,500
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		5	4	4	2

Refer to notes on page 32.

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

100' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
19.0	81.6	125,600 *			
20.0	81.0	123,600 *			
22.0	79.9	112,200 *			
24.0	78.7	100,600			
26.0	77.5	88,900			
28.0	76.3	80,200			
30.0	75.1	72,400			
32.0	74.0	66,300	60,800		
34.0	72.8	61,300	56,300		
36.0	71.6	57,000	52,300	43,500 *	
38.0	70.3	52,700	48,900	42,900 *	
40.0	69.1	48,900	45,800	42,400 *	34,800 *
42.0	67.9	46,200	43,100	40,900 *	33,500 *
44.0	66.6	43,400	40,700	38,800	32,500 *
46.0	65.4	40,700	38,500	36,800	31,700 *
48.0	64.1	38,700	36,500	35,000	30,900 *
50.0	62.8	36,600	34,700	33,400	30,000 *
55.0	59.5	32,300	30,800	29,700	27,800 *
60.0	56.1	28,700	27,500	26,700	25,500
65.0	52.5	25,900	24,900	24,300	23,600
70.0	48.8	23,500	22,700	22,100	21,500
75.0	44.8	21,400	20,700	20,300	20,000
80.0	40.5	19,600	19,200	18,800	18,500
85.0	36.0	18,100	17,700	17,500	17,200
90.0	30.5	16,900	16,500	16,300	16,100
95.0	24.0	15,800	15,400	15,300	15,100
Reeves		5	4	2	2

110' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
20.0	81.8	100,800 *			
22.0	80.8	100,800 *			
24.0	79.7	96,500 *			
26.0	78.6	88,500 *			
28.0	77.6	80,200			
30.0	76.5	72,400			
32.0	75.4	66,300			
34.0	74.3	61,300	55,900 *		
36.0	73.2	57,000	51,900		
38.0	72.2	52,700	48,600		
40.0	71.1	48,900	45,500	37,900 *	
42.0	70.0	46,200	42,900	37,500 *	
44.0	68.9	43,400	40,400	37,000 *	28,900 *
46.0	67.8	40,700	38,200	36,200 *	28,600 *
48.0	66.6	38,700	36,300	34,600	28,200 *
50.0	65.4	36,600	34,500	32,900	27,900 *
55.0	62.5	32,300	30,500	29,400	27,200 *
60.0	59.5	28,700	27,400	26,400	25,500
65.0	56.5	25,900	24,700	23,900	23,100
70.0	53.2	23,500	22,500	21,800	21,200
75.0	49.9	21,400	20,600	20,000	19,500
80.0	46.4	19,600	19,000	18,600	18,200
85.0	42.6	18,100	17,700	17,300	17,000
90.0	38.6	16,800	16,400	16,100	15,700
95.0	34.1	15,600	15,200	15,000	14,800
100.0	29.1	14,600	14,300	14,200	14,000
105.0	23.2	13,770	13,500	13,300	
Reeves		4	4	2	2

120' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
22.0	81.6	98,700 *			
24.0	80.6	94,200 *			
26.0	79.6	88,000 *			
28.0	78.6	79,900			
30.0	77.7	72,200			
32.0	76.7	66,100			
34.0	75.7	61,100	53,000 *		
36.0	74.7	56,800	51,300		
38.0	73.7	52,500	47,900		
40.0	72.7	48,700	45,000	33,900 *	
42.0	71.7	45,800	42,200	33,400 *	
44.0	70.7	43,000	39,800	33,000 *	
46.0	69.7	40,200	37,600	32,800 *	
48.0	68.6	38,300	35,600	32,300 *	
50.0	67.6	36,300	34,000	31,700 *	24,800 *
55.0	65.0	32,000	30,200	28,900	24,300 *
60.0	62.3	28,300	27,100	26,000	23,600 *
65.0	59.6	25,400	24,400	23,500	22,700
70.0	56.8	23,200	22,200	21,400	20,800
75.0	53.8	21,200	20,300	19,700	19,100
80.0	50.8	19,400	18,600	18,100	17,600
85.0	47.7	17,700	17,200	16,700	16,300
90.0	44.3	16,500	15,900	15,600	15,300
95.0	40.7	15,300	14,800	14,500	14,300
100.0	36.9	14,200	13,800	13,600	13,400
110.0	27.8	12,600	12,200	12,000	11,900
115.0	22.2	11,840	11,500		
Reeves		4	4	2	2

130' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
24.0	81.3	85,100 *			
26.0	80.4	83,900 *			
28.0	79.5	78,200 *			
30.0	78.6	71,900			
32.0	77.7	65,900			
34.0	76.9	60,900			
36.0	75.9	56,600			
38.0	75.0	52,300	46,400 *		
40.0	74.1	48,400	44,500		
42.0	73.2	45,600	41,700		
44.0	72.2	42,800	39,400	29,700 *	
46.0	71.3	40,000	37,200	29,400 *	
48.0	70.4	38,000	35,300	29,100 *	
50.0	69.4	36,000	33,600	28,700 *	
55.0	67.1	31,600	29,700	27,900 *	21,700 *
60.0	64.6	28,100	26,600	25,500	21,200 *
65.0	62.2	25,200	24,100	23,100	20,700 *
70.0	59.6	22,900	21,900	21,100	20,000 *
75.0	57.0	20,900	20,000	19,300	18,700
80.0	54.3	19,000	18,300	17,700	17,200
85.0	51.6	17,500	16,900	16,400	16,000
90.0	48.7	16,100	15,700	15,300	14,900
95.0	45.6	15,000	14,600	14,200	13,900
100.0	42.4	14,000	13,600	13,300	13,000
110.0	35.4	12,100	11,900	11,700	11,600
120.0	26.6	10,800	10,600	10,500	10,400
125.0	21.3	10,230	9,900		
Reeves		4	2	2	2

140' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
24.0	81.9	72,900 *			
26.0	81.1	71,800 *			
28.0	80.3	70,800 *			
30.0	79.4	69,000 *			
32.0	78.6	64,700 *			
34.0	77.8	60,500			
36.0	76.9	56,200			
38.0	76.1	52,000			
40.0	75.2	48,200	41,500 *		
42.0	74.4	45,400	40,600 *		
44.0	73.5	42,600	38,900		
46.0	72.7	39,800	36,800		
48.0	71.8	37,800	34,900		
50.0	71.0	35,800	33,200		
55.0	68.8	31,400	29,400	25,100 *	19,200 *
60.0	66.6	27,800	26,200	24,500 *	18,700 *
65.0	64.3	25,000	23,500	22,400 *	18,300 *
70.0	62.0	22,600	21,300	20,500	17,900 *
75.0	59.7	20,500	19,500	18,700	17,400 *
80.0	57.3	18,700	17,800	17,200	16,600
85.0	54.8	17,200	16,400	15,800	15,400
90.0	52.2	15,900	15,200	14,700	14,300
95.0	49.5	14,600	14,100	13,700	13,300
100.0	46.8	13,600	13,100	12,800	12,500
110.0	40.8	11,900	11,400	11,200	11,000
120.0	34.0	10,300	10,100	9,900	9,800
130.0	25.7	9,200	9,100	8,900	8,800
135.0	20.5	8,830			
Reeves		4	2	2	2

150' Boom

Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
26.0	81.7	62,200 *			
28.0	80.9	61,300 *			
30.0	80.1	60,400 *			
32.0	79.4	59,400 *			
34.0	78.6	57,200 *			
36.0	77.8	54,100 *			
38.0	77.0	51,000 *			
40.0	76.3	48,000			
42.0	75.5	45,200	37,100 *		
44.0	74.7	42,400	36,600 *		
46.0	73.9	39,600	35,800 *		
48.0	73.1	37,500	34,500		
50.0	72.3	35,500	32,800	23,300 *	
55.0	70.3	31,200	29,000	22,700 *	
60.0	68.2	27,600	25,800	22,000 *	16,800 *
65.0	66.2	24,800	23,300	21,600 *	16,500 *
70.0	64.0	22,400	21,100	20,100 *	16,100 *
75.0	61.9	20,300	19,200	18,300	15,700 *
80.0	59.6	18,500	17,600	17,000	15,400 *
85.0	57.4	17,000	16,200	15,500	14,900 *
90.0	55.2	15,700	14,900	14,400	14,000
95.0	52.8	14,400	13,800	13,300	13,000
100.0	50.3	13,400	12,800	12,500	12,100
110.0	45.1	11,700	11,200	10,900	10,700
120.0	39.3	10,300	9,900	9,600	9,400
130.0	32.8	8,900	8,800	8,600	8,400
140.0	24.3	8,000	7,800	7,700	7,600
Reeves		4	2	2	2

Refer to notes on page 32.

Barge

5 Counterweights (69,000 lbs) - 2 Carbody weights (31,800 lbs) - Crawlers in extended position.

160' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
28.0	81.5	50,200 *			
30.0	80.8	50,100 *			
32.0	80.1	49,700 *			
34.0	79.4	49,200 *			
36.0	78.6	48,500 *			
38.0	77.9	47,800 *			
40.0	77.2	46,600 *			
42.0	76.4	44,300 *			
44.0	75.6	42,100 *	32,200 *		
46.0	74.9	39,800	31,700 *		
48.0	74.1	37,800	31,300 *		
50.0	73.4	35,800	31,000 *		
55.0	71.5	31,400	28,900 *	20,000 *	
60.0	69.6	27,800	26,000	19,300 *	
65.0	67.7	25,000	23,400	18,900 *	14,400 *
70.0	65.8	22,600	21,200	18,500 *	14,000 *
75.0	63.8	20,500	19,300	18,000 *	13,700 *
80.0	61.8	18,700	17,700	16,900	13,400 *
85.0	59.7	17,000	16,300	15,600	13,100 *
90.0	57.6	15,700	15,000	14,300	12,800 *
95.0	55.4	14,500	13,900	13,500	12,400 *
100.0	53.2	13,500	12,900	12,400	12,000
110.0	48.6	11,700	11,100	10,900	10,600
120.0	43.6	10,100	9,800	9,600	9,300
130.0	38.1	8,900	8,600	8,500	8,300
140.0	31.6	7,900	7,800	7,600	7,500
150.0	23.7	7,100	6,900	6,800	6,700
Reeves		2	2	2	2

170' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
30.0	81.3	44,500 *			
32.0	80.7	43,900 *			
34.0	80.0	43,200 *			
36.0	79.3	42,500 *			
38.0	78.6	41,900 *			
40.0	77.9	41,200 *			
42.0	77.2	40,600 *			
44.0	76.5	40,000 *			
46.0	75.8	39,300 *			
48.0	75.1	37,400 *	28,400 *		
50.0	74.4	35,400 *	28,100 *		
55.0	72.6	31,200	27,100 *	17,700 *	
60.0	70.9	27,600	25,400 *	17,300 *	
65.0	69.1	24,600	23,000	16,900 *	
70.0	67.3	22,300	20,900	16,400 *	12,400 *
75.0	65.4	20,300	19,000	16,000 *	12,200 *
80.0	63.5	18,500	17,400	15,600 *	11,800 *
85.0	61.6	16,800	16,000	15,300 *	11,500 *
90.0	59.7	15,400	14,700	14,000	11,300 *
95.0	57.8	14,300	13,600	13,200	11,100 *
100.0	55.8	13,300	12,600	12,100	10,800 *
110.0	51.5	11,500	10,900	10,600	10,100 *
120.0	47.0	9,800	9,600	9,300	9,000
130.0	42.2	8,700	8,400	8,200	8,000
140.0	36.8	7,700	7,300	7,100	7,000
150.0	30.5	6,800	6,500	6,400	6,200 *
160.0	23.2	5,900	5,800 *	5,800 *	5,100 *
Reeves		2	2	2	2

180' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
30.0	81.8	39,300 *			
32.0	81.2	38,800 *			
34.0	80.5	38,200 *			
36.0	79.9	37,600 *			
38.0	79.2	37,000 *			
40.0	78.6	36,400 *			
42.0	77.9	35,800 *			
44.0	77.2	35,100 *			
46.0	76.6	34,500 *			
48.0	75.9	33,900 *			
50.0	75.3	33,300 *			
55.0	73.7	30,800 *	24,200 *		
60.0	72.0	27,400	22,900 *	15,300 *	
65.0	70.3	24,400	21,800 *	15,100 *	
70.0	68.6	21,900	20,400 *	14,600 *	10,800 *
75.0	66.9	19,900	18,700	14,200 *	10,600 *
80.0	65.2	18,100	17,100	13,800 *	10,400 *
85.0	63.4	16,600	15,700	13,500 *	10,000 *
90.0	61.6	15,200	14,400	12,900 *	9,700 *
95.0	59.8	14,000	13,200	12,200 *	9,500 *
100.0	57.9	12,900	12,300	11,600 *	9,300 *
110.0	54.0	11,100	10,600	10,300	8,500 *
120.0	49.9	9,600	9,100	8,800	7,700 *
130.0	45.6	8,500	8,000	7,700	6,900 *
140.0	40.9	7,400	7,000	6,900	6,000 *
150.0	35.7	6,500	6,200	6,000	5,000 *
160.0	29.7	5,600	5,400	5,000 *	4,200 *
165.0	26.5	5,100	5,100	4,400 *	3,600 *
Reeves		2	2	2	2

190' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
32.0	81.6	34,400 *			
34.0	81.0	33,800 *			
36.0	80.4	33,300 *			
38.0	79.8	32,700 *			
40.0	79.2	32,200 *			
42.0	78.6	31,700 *			
44.0	78.0	31,100 *			
46.0	77.4	30,600 *			
48.0	76.7	30,100 *			
50.0	76.1	29,600 *			
55.0	74.5	28,100 *	21,700 *		
60.0	73.0	26,200 *	20,600 *		
65.0	71.4	24,000 *	19,500 *	13,300 *	
70.0	69.8	21,800	18,400 *	13,100 *	
75.0	68.2	19,900	17,300 *	12,700 *	9,200 *
80.0	66.5	18,000	16,200 *	12,400 *	9,000 *
85.0	64.9	16,400	15,300 *	11,900 *	8,800 *
90.0	63.2	15,000	14,100	11,300 *	8,600 *
95.0	61.5	13,900	13,000	10,600 *	8,400 *
100.0	59.7	12,900	12,000	10,000 *	8,200 *
110.0	56.2	11,000	10,400	8,900 *	7,400 *
120.0	52.5	9,400	9,100	7,900 *	6,500 *
130.0	48.5	8,200	7,800	6,800 *	5,700 *
140.0	44.3	7,200	6,800	5,900 *	4,900 *
150.0	39.7	6,300	5,900	5,100 *	4,100 *
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

200' Boom

		360° Rated Load (lbs)			
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
34.0	81.5	30,300 *			
36.0	80.9	29,700 *			
38.0	80.3	29,200 *			
40.0	79.7	28,700 *			
42.0	79.1	28,200 *			
44.0	78.6	27,700 *			
46.0	78.0	27,300 *			
48.0	77.4	26,800 *			
50.0	76.8	26,300 *			
55.0	75.3	24,900 *			
60.0	73.8	23,200 *	18,200 *		
65.0	72.4	21,500 *	17,100 *	11,700 *	
70.0	70.9	20,000 *	16,100 *	11,300 *	
75.0	69.3	18,500 *	15,100 *	11,000 *	
80.0	67.8	17,100 *	14,100 *	10,600 *	7,700 *
85.0	66.2	15,900 *	13,300 *	10,100 *	7,500 *
90.0	64.6	14,700	12,400 *	9,500 *	7,200 *
95.0	63.0	13,500	11,700 *	9,000 *	7,000 *
100.0	61.4	12,400	11,000 *	8,400 *	6,800 *
110.0	58.1	10,600	9,500 *	7,400 *	6,000 *
120.0	54.6	9,200	8,200 *	6,500 *	5,200 *
130.0	51.1	7,800	7,100 *	5,600 *	4,500 *
140.0	47.2	6,500	5,900 *	4,600 *	3,700 *
150.0	43.1	5,200 *	4,900 *	3,700 *	3,100 *
155.0	41.0	4,650 *	4,400 *	3,500 *	
Reeves		2	2	2	2

Refer to notes on page 32.

NOTES

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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