

Hydraulic Crawler Crane

GES50G

Max. Lifting Capacity: 85 US Tons Max. Crane Boom Length: 200 ft

Max. Fixed Jib Combination: 180 ft + 60 ft



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General Description



Type Crawler mounted, Lattice boom, Hydraulic controlled Maximum lift capacity 170,000 lbs (77,110 kg) @ 10' 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
 180' + 60' (54.9 m + 18.3 m)

 Working weight
 Approx. 165,700 lbs (75,140 kg)

Ground bearing pressure Approx. 10.8 psi (84.7 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)	14'9" (4.50 m)
Counterweight ground clearance	3'7" (1.10 m)
Center of rotation to boom foot pin	3'7" (1.10 m)
Height from ground to boom foot pin	5'9" (1.75 m)
Height over gantry (raised)	20'3" (6.17 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)

 $230 \sim 6.6$ ft/min (70 ~ 2 m/min)

Boom lowering line speed (front and rear drums)

 $230 \sim 6.6 \text{ ft/min} (70 \sim 2 \text{ m/min})$

Swing speed (max.) 4.0 rpm

Travel speed (high/low) 1.1/0.72 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 4-13/32" x 5-1/8"

(112 mm x 130 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&#}x27;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 20,600 (9,320 kg)

 Counterweight (R)
 2 x 9,250 (4,200 kg)

 Counterweight (L)
 2 x 9,250 (4,200 kg)

 Total Counterweight
 57,600 (26,120 kg)

Carbody weight 2 x 7,200 (3,250 kg) Total Carbody weight 14,400 (6,500 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 \(\ell \)/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 \(\ell \)min + 40.5 \(\ell \)min)

Brake cooling system

2 gear pumps, max flow rate 19.4 US gal/min x 2 (73.5 \(\ell \)/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) - 34,400 lbf (153 kN) *Rated line pull* - 17,000 lbf (78.5 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 -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 869' (265 m) working length and 1,099' (335 m) storage length.

Rear drum -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 673' (205 m) working length and 1,099' (335 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.

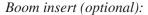


Crane Attachments

Boom:

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

Maximum boom length200' (61.0 m)Basic boom length40' (12.2 m)Boom base section19'7" (5.97 m)Boom tip section22'8" (6.91 m)



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 length60' (18.3 m)Basic jib length30' (9.1 m)Jib base section15'9" (4.8 m)Jib tip section16'1" (4.9 m)

Jib insert 10' (3.1 m), 20' (6.1 m)

Jib is useable on booms of 80' (24.4 m) through 180' (54.9 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

G-Mode

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

Auto Idling Stop Mode (AIS):

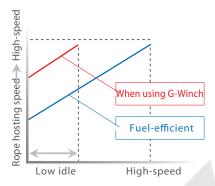
An Industry First

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

G-Winch Mode:

An Industry First

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



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

G-Engine Mode:

An Industry First

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











G-Engine

G-Winch

AIS



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.

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.

Remote control connection

Oil cooler operation

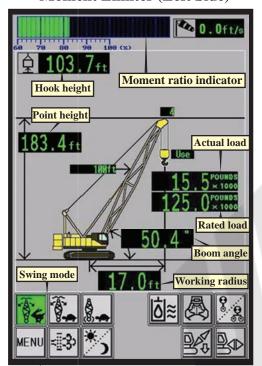
Free fall (auxiliary)

Free fall (3rd)

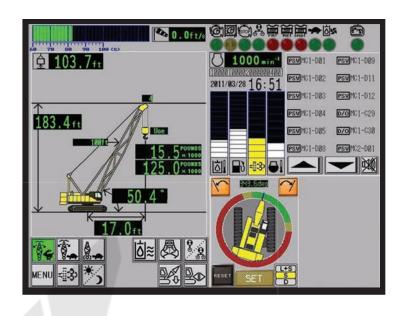
Load Moment Indicator (LMI)

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)

1000 min PSV MC1-D01 PSV MC1-D09 PSV MC1-D02 PSVMC1-D11 2011/03/28 16:51 PSV MC1-D03 PSVMC1-D12 PSV MC1-D04 D/O MC1-C29 D/OMC1-030 PSV MC1-D05 PSV MC1-D08 PSV MC2-D01

Display Lamp Display lamp G-Engine G-Winch AIS operation

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.

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 = 22 mm

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

Maximum Line Pull = 34,400 lbf (153 kN)

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

Line speed (ft/min)

	Layer	1	2	3	4	5	6
	0	394	420	446	472	499	
	5,000	394	420	446	472	499	
	10,000	394	420	438	434	437	
Line Pull	15,000	296	292	287	279	269	storage
(lbs)	17,000	265	246	235	221	216	only
	20,000	195	183	184	183	181	
	25,000	145	142	137	131	123	
	32,000	95		4			
Storage Ca	pacity (ft)	130	139	148	157	166	175

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)

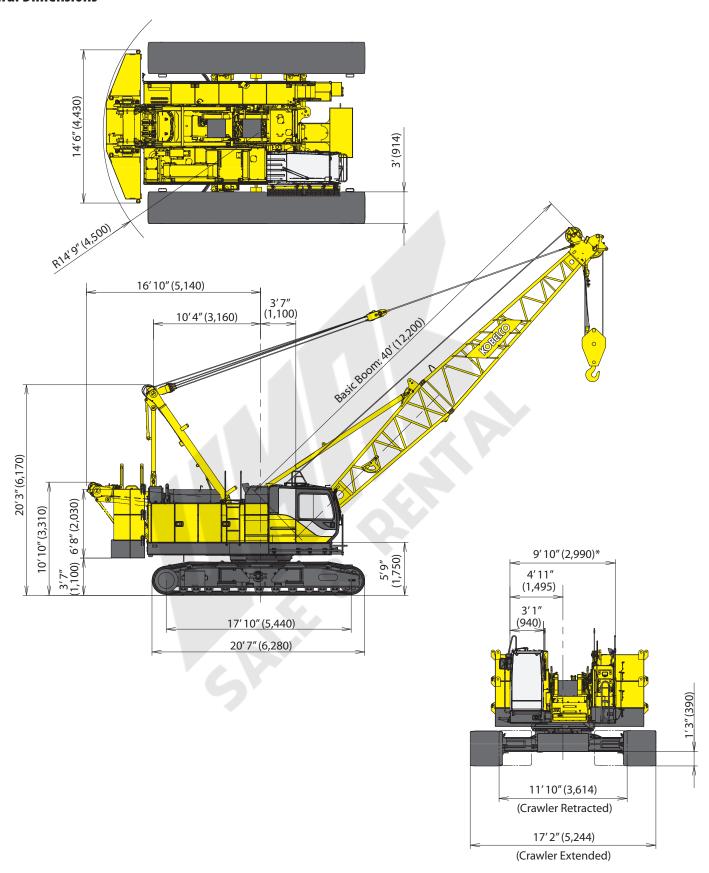
Line speed (ft/min)

	Layer	1	2	3	4	5	6
	0	394	394	394	394	394	
	5,000	394	394	394	394	394	
Line Pull	10,000	227	227	227	227	227	
(lbs)	15,000	147	152	161	170	179	storage
	17,000	142	151	160	169	178	only
	20,000	140	149	158	167	176	
	25,000	138	147	155	163	164	
	30,000	136	135				
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	0.888" to 0.905" (22.55 mm to 22.99 mm)	869' (265 m)	3.5: 1	81,606 lbf (363 kN)
Rear drum	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	672' (205 m)	3.5: 1	81,606 lbf (363 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)	492' (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)	476' (145 m)	3.5: 1	81,606 lbf (363 kN)

General Dimensions



^{* - 10&#}x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

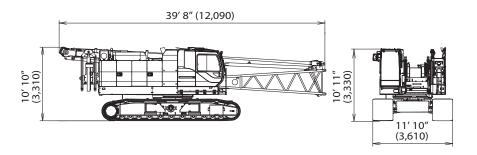
Dimensions and Weight

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

Base Machine - 1

Weight: 91,700 lbs (41,580 kg)

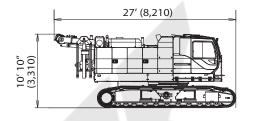
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

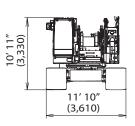


Base Machine - 2

Weight: 87,500 lbs (39,660 kg)

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



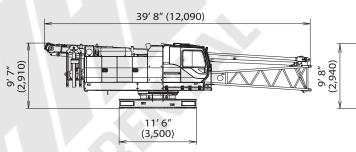


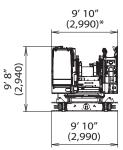
Base Machine - 3

Weight: 58,000 lbs (26,330 kg)

Gantry, crawlers, and

wire ropes (front, rear, and boom hoist)

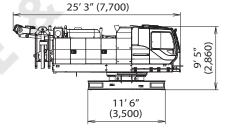


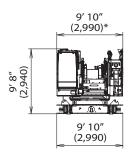


Base Machine - 4

Weight: 53,800 lbs (24,380 kg)

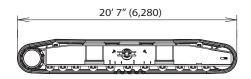
Boom base, gantry, self removal unit, and wire ropes (front, rear, and boom hoist)

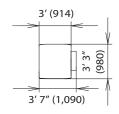




Crawler

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





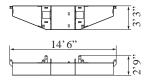
^{* - 10&#}x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

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

Dimensions and Weight

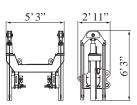
Counterweight Base

Weight: 20,600 lbs (9,320 kg)



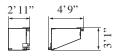
Self Removal Unit

Weight: 1,900 lbs (860 kg)



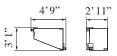
Counterweight (R)

Weight: 9,250 lbs (4,200 kg)



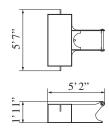
Counterweight (L)

Weight: 9,250 lbs (4,200 kg)



Carbody Weight

Weight: 7,200 lbs (3,250 kg)



Auxiliary Sheave

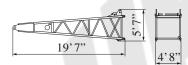
Weight: 320 lbs (145 kg)





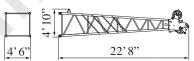
Boom Base

Weight: 3,000 lbs (1,379 kg)



Boom Tip

Weight: 2,500 lbs (1,126 kg) Includes cable roller and guy lines



10 ft (3.0 m) Insert Boom

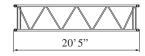
Weight: 760 lbs (345 kg) Includes cable roller and guy lines





20 ft (6.1 m) Insert Boom

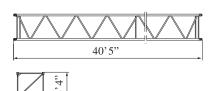
Weight: 1,300 lbs (566 kg) Includes cable roller and guy lines





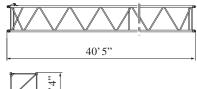
40 ft (12.2 m) Insert Boom

Weight: 2,200 lbs (1,009 kg) Includes cable roller and guy lines



40 ft (12.2 m) Insert Boom (with lug)Weight: 2,300 lbs (1,024 kg)

Includes cable roller and guy lines





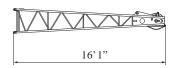
Dimensions and Weight

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

Jib Tip

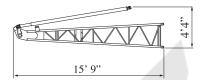
Weight: 500 lbs (228 kg) Includes cable roller.





Jib Base and Strut

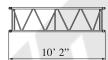
Weight: 1,100 lbs (485 kg) Includes guy line.





10 ft (3.0 m) Insert Jib

Weight: 270 lbs (121 kg) Includes cable roller and guy line.



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20 ft (6.1 m) Jib Insert

Weight: 460 lbs (209 kg) Includes cable roller and guy line.





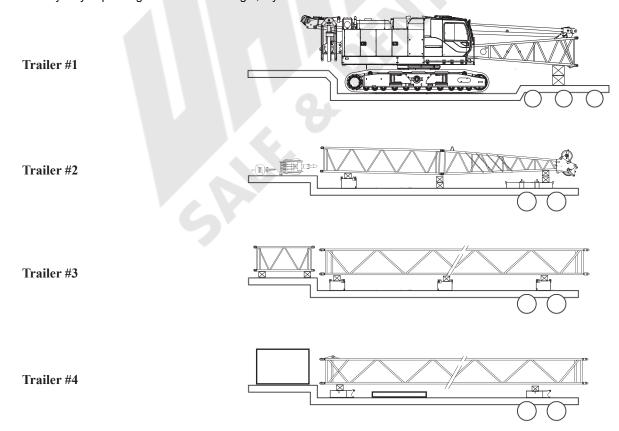
Transportation PlanRefer to pages 10-12

Shipping plan for 150 ft Boom

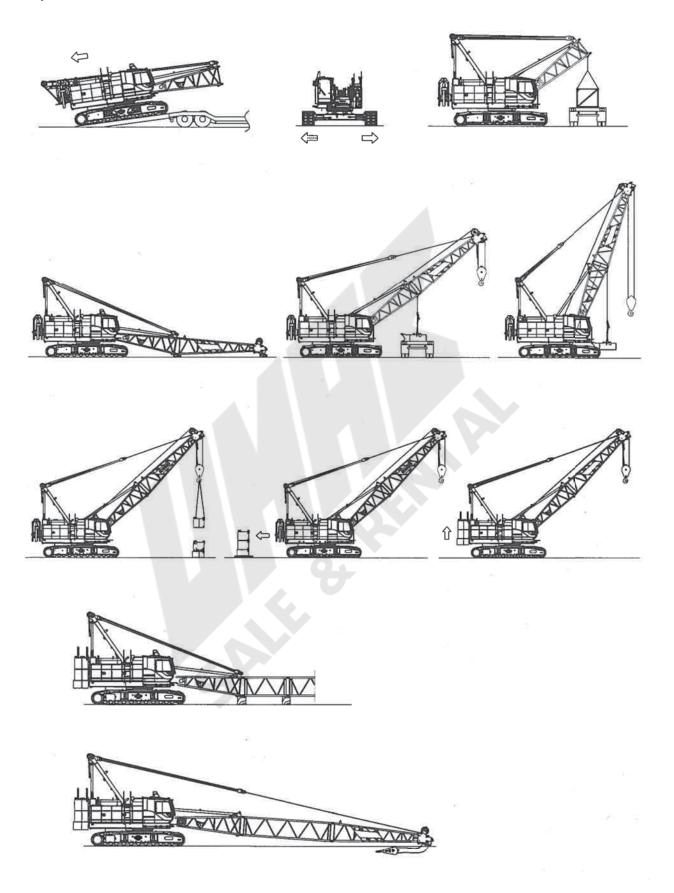
Description of them	Wei	ight		Trailer I	Loads	
Description of Item		(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	91,700	(41,580)	1			
Counterweight Base	20,600	(9,320)		1		
Counterweight (L)	9,250	(4,200)			2	
Counterweight ('R)	9,250	(4,200)		1	1	
Carbody Weight	7,200	(3,250)				2
10 ft Insert Boom and Guy Line	760	(345)			1	
20 ft Insert Boom and Guy Line	1,300	(566)		1		
40 ft Insert Boom and Guy Line	2,200	(1,009)			1	
40 ft Insert Boom (w/ Lug) and Guy Line (A)	2,300	(1,024)				1
Boom Tip and Guy Line	2,500	(1,126)		1		
Jib Base and Guy Line	1,100	(485)				
10 ft Insert Jib and Guy Line	270	(121)				
20 ft Insert Jib and Guy Line	460	(209)				
Jib Tip	500	(228)				
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 Chinain	a Woight	lbs	91,700	37,450	30,710	21,790
Approx. Total Shippin	yveigiit	(kg)	(41,580)	(16,938)	(13,954)	(9,833)

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

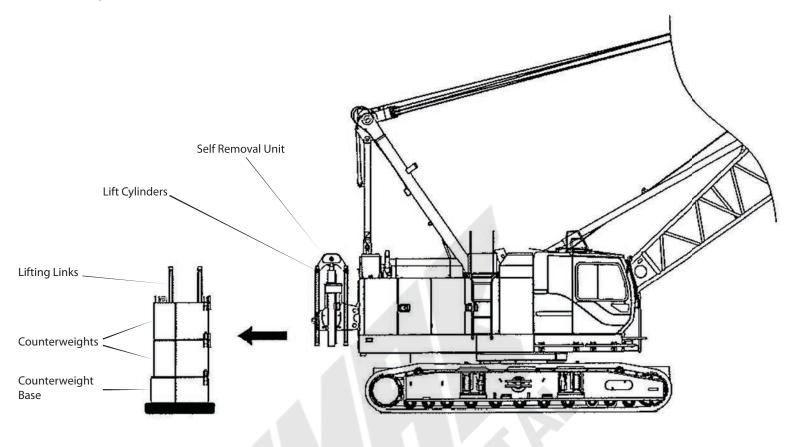
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck. This may vary depending on truck/trailer weight, style of trailer and state law.

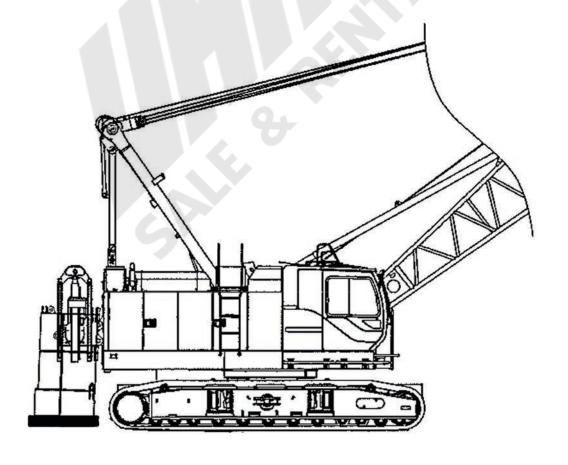


Self-Assembly Procedure



Counterweight Self-Removal Device



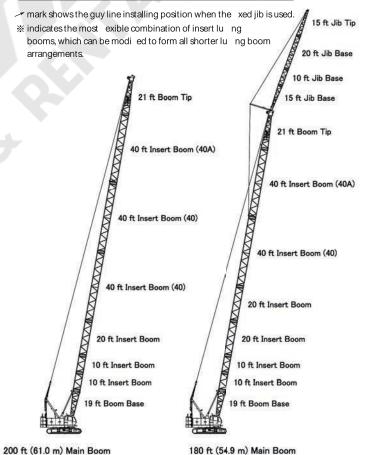


Boom and Fixed Jib Arrangement

Boom length ft (m)	Boom arrangement
40 (12.2)	©BT >>>
50 (15.2)	S 10 T
60 (18.3)	* B 10 10 T > B 20 T >
70 (21.3)	※ ■ 10 20 □
80 (24.4)	* 10 10 20 1 1 1 20 1 1 1 1 1 1 1 1 1 1 1
90 (27.4)	
100 (30.5)	*
110 (33.5)	※ □ 10 20 40A IT
120 (36.6)	
130 (39.6)	* B 10 20 20 40A T
140 (42.7)	★ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

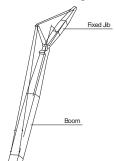
Boom length ft (m)	Boom arrangement
150 (45.7)	★ ■ 10 20 40 40A T
160 (48.8)	** B 10 10 20 40 40A T
170 (51.8)	※ ■ 10 20 20 40 40A T ■ 10 40 40 40A T
180 (54.9)	Image: square property of the
190 (57.9)	※ ■ 10 20 40 40 40 1 40 T
200 (61.0)	

Symbol	Boom Length	Remarks
В	20.0 ft (6.1 m)	Boom Base
	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



and 60 ft (18.3 m) Fixed Jib

Fixed Jib Arrangement

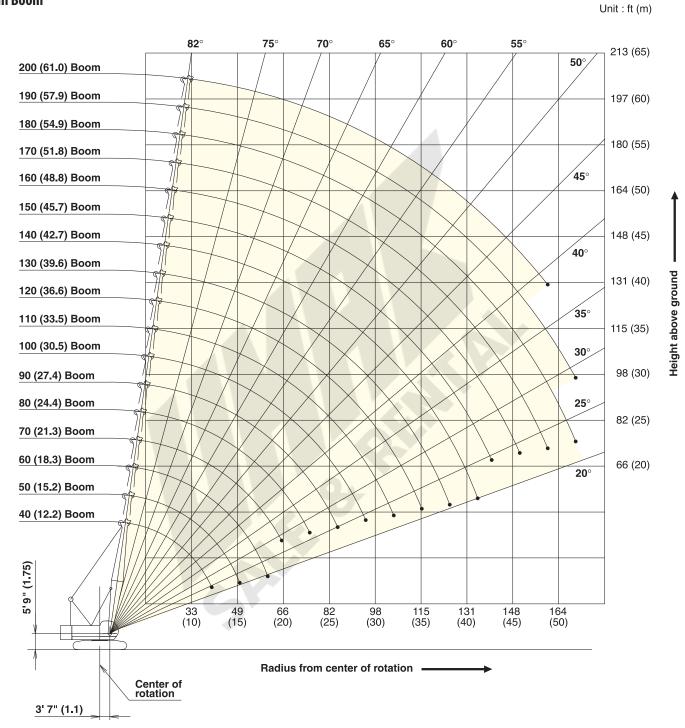


Crane boom length	Jib length ft (m)	Jib arrangement
	30 (9.1)	□B T
80 ft (24.4 m)	40 (12.2)	B 10 T
180 ft (54.9 m)	50 (15.2)	■ 20 T
	60 (18.3)	B 20 10 T

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

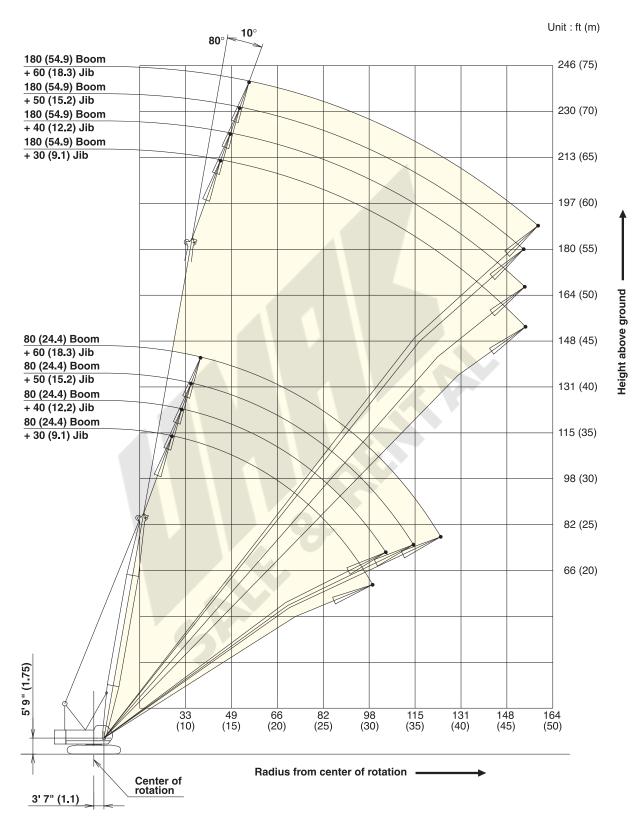
Working Ranges

Main Boom



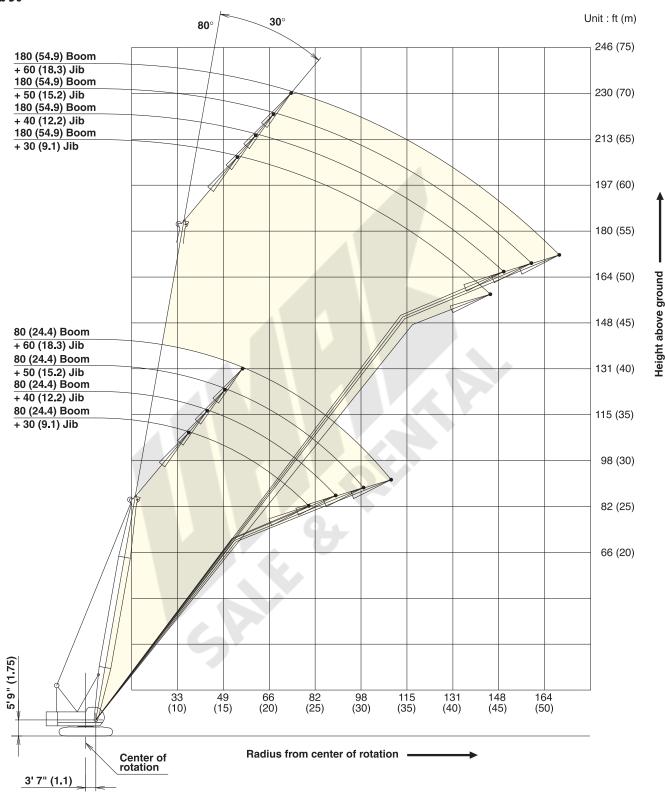
Working Ranges





Working Ranges

Fixed Jib 30°



Supplemental Data

- 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).
- 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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.
- 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)	320	2,400	3,200	4,200	5,200

- 8. The total load that can be lifted by jib is limited by rated jib loads.
- 9. Boom lengths for jib mounting are 80 ft (24.4 m) to 180 ft (54.9 m)
- 10. The total load that can be lifted by the auxiliary sheave is the value for 320 lbs deducted from rated load for the boom (without auxiliary sheave installed); however, the auxiliary sheave rated load should not exceed 17,000 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 180 ft (54.9 m) with jib, the blocks for erections must be placed at the end of the crawlers.
- 13. Least stable position is over the side.
- 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)	17,000	34,000	51,000	68,000	85,000
No. of Doute of the o	^	7		_	40

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

Maximum Load for Fixed Jib

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

Maximum Load Auxiliary Sheave

maximam Loud / taxiii	ui y Ollout
No. of Parts of line	1
Maximum Loads (lbs)	17,000

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

Main Boom Lift Capacity

III DUU	m Lif	t Capacity							F	ull Count	erweight: 57,60	0 lbs	Carbody	Weight: 14,400
40	D' Boo	m	50	D' Boo	m	60)' Boo	m	70	O' Boo	m	80	D' Boo	m
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)
10.0 11.0	81.7 80.3	170,000 * 170,000 *	12.0 13.0	81.1 79.9	166,400 * 154,400 *	13.0 14.0	81.6 80.7	154,200 * 143,800 *	14.0 15.0	82.0 81.2	143,600 * 134,500 *	16.0 17.0	81.6 80.8	126,300 * 119,100 *
12.0	78.8	166,600 *	14.0	78.8	144,000 *	15.0	79.7	134,700 *	16.0	80.3	126,500 *	18.0	80.1	112,600 *
13.0	77.4	154,600 *	15.0	77.6	134,900 *	16.0	78.7	126,700 *	17.0	79.5	119,300 *	19.0	79.4	105,290
14.0	75.9	144,200 *	16.0	76.4	126,900 *	17.0	77.7	119,500 *	18.0	78.7	112,800 *	20.0	78.6	96,930
15.0	74.4	135,100 *	17.0	75.2	119,700 *	18.0	76.8	113,000 *	19.0	77.8	105,400	22.0	77.2	83,550
16.0	72.9	127,100 *	18.0	74.0	113,200 *	19.0	75.8	105,460	20.0	77.0	97,060	24.0	75.7	73,320
17.0 18.0	71.4 69.9	119,900 * 113,400 *	19.0 20.0	72.8 71.6	105,660 97,350	20.0 22.0	74.8 72.8	97,130 83,790	22.0 24.0	75.3 73.6	83,700 73,470	26.0 28.0	74.2 72.7	65,230 58,680
19.0	68.3	105,820	22.0	69.2	84,010	24.0	70.8	73,560	26.0	71.9	65,380	30.0	71.2	53,260
20.0	66.7	97,500	24.0	66.7	73,810	26.0	68.7	65,490	28.0	70.1	58,840	32.0	69.7	48,690
22.0	63.6	84,190	26.0	64.2	65,760	28.0	66.6	58,970	30.0	68.4	53,430	34.0	68.1	44,840
24.0	60.3	74,000	28.0	61.6	59,230	30.0	64.5	53,570	32.0	66.6	48,890	36.0	66.6	41,490
26.0	56.9	65,980	30.0	58.9	53,850	32.0	62.4	49,030	34.0	64.8	45,030	38.0	65.0	38,580
28.0	53.4	59,480	32.0	56.2	49,310	34.0	60.2	45,170	36.0	63.0	41,680	40.0	63.4	36,020
30.0	49.7	54,100	34.0	53.3	45,480	36.0	58.0	41,840	38.0	61.1	38,800	45.0	59.3	30,820
32.0 34.0	45.7 41.5	49,580	36.0 38.0	50.4 47.3	42,150	38.0 40.0	55.7 53.3	38,950	40.0 45.0	59.2 54.3	36,240	50.0 55.0	55.0 50.5	26,820
36.0	36.9	45,740 42,460	40.0	44.1	39,280 36,750	45.0	47.0	36,410 31,230	50.0	49.0	31,040 27,070	60.0	45.6	23,670 21,140
38.0	31.6	39,590	45.0	34.9	31,590	50.0	40.0	27,290	55.0	43.3	23,960	65.0	40.3	19,060
40.0	25.5	34,830 *	50.0	22.7	26,890 *	55.0	31.7	24,200	60.0	36.9	21,450	70.0	34.4	17,350
		.,				60.0	20.6	21,600 *	65.0	29.3	19,420	75.0	27.3	15,890
Ree	ves	10	Ree	ves	10	Ree	ves	10	Ree	eves	9	Ree	ves	8
QΩ								. •	1100		-			
	o' Boo	m	10	0' Boo			0' Boo			.0' Boo	om		0' Boo	
Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	11 Load Radius	0' Boom Boom Angle	360° Rated Load	Load Radius	O' Boom Boom Angle	360° Rated Load	13 Load Radius	O' Boom Boom Angle	360° Rated Load
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)
Load Radius (ft)	Boom Angle (deg.) 81.9	360° Rated Load	Load Radius (ft)	Boom Angle (deg.) 81.5	360° Rated Load (lbs) 101,850 *	Load Radius (ft)	O' Boom Angle (deg.) 81.8	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 80,680 *	Load Radius (ft)	O' Boom Angle (deg.) 81.3	360° Rated Load (lbs) 71,200 *
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 118,820 *	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)
Load Radius (ft) 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870	Load Radius (ft) 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120	Load Radius (ft) 20.0 22.0 24.0 26.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900	Load Radius (ft) 22.0 24.0 26.0 28.0	81.5 80.5 79.6 78.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240	Load Radius (ft) 24.0 26.0 28.0 30.0	81.3 80.4 79.5 78.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0	81.5 80.5 79.6 77.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0	81.3 80.4 79.5 78.6 77.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440	11 Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550	11 Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 76.5 74.3 73.2 72.1 71.0	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 74.7 73.7 72.7 70.1	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 74.7 73.7 72.7 70.1 67.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 74.7 73.7 72.7 70.1 67.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 67.0 64.6 62.1 59.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	800m Angle (deg.) 81.9 81.9 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 70.1 67.6 65.0 62.3 59.5 56.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 67.0 64.6 62.1 59.6 57.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	800m Angle (deg.) 81.9 81.9 80.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.7 72.7 70.1 65.0 62.3 59.5 56.7 53.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 75.0 80.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 55.0 60.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	Load Radius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 77.0 80.0 85.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	800m Angle (deg.) 81.9 81.9 80.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.7 72.7 70.1 65.0 62.3 59.5 56.7 53.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 75.0 80.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 80.0 85.0 90.0	81.8 80.7 79.7 78.6 77.5 76.5 76.5 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 74.7 73.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3 40.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	80 Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 42.4 39.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 105.0 110.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 61.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4 39.0 35.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 110.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7 27.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280 8,680	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 61.6 62.1 59.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4 39.0 35.4 31.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 105.0 110.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 61.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4 39.0 35.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390

Main Boom Lift Capacity

in Boo	m Lift	t Capacity							ı	Full Count	terweight: 57,60	0 lbs	Carbody	Weight: 14,400
14	0' Boo	om	15	0' Boo	om	16	0' Boo	om	17	'0' Boo	om	18	0' Boo	om
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (Ibs)	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 (Ibs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
24.0 26.0 28.0 30.0 34.0 36.0 45.0 55.0 65.0 70.0 85.0 90.0 105.0 110.0 120.0 125.0 135.0	81.9 81.1 80.2 79.4 78.6 77.7 76.0 75.2 73.1 70.9 66.5 64.3 62.0 59.6 57.2 54.7 52.2 46.8 43.9 40.8 37.5 34.0 30.1 20.5	61,720 * 60,840 * 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,790 8,790 8,790 8,7120 6,650 6,650 6,260 5,900	26.0 28.0 30.0 32.0 34.0 36.0 40.0 55.0 65.0 70.0 75.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0 135.0 140.0	81.7 80.9 80.1 79.3 78.6 77.8 77.2 70.2 74.2 72.2 66.1 64.0 61.8 59.6 57.4 55.1 50.3 47.7 45.1 42.3 39.4 36.2 32.8 29.1 24.8	52,680 * 51,800 * 51,140 * 43,890 40,540 37,610 35,030 29,760 25,720 22,7530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000 7,420 6,920 6,450 6,040 5,660 5,330	28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 65.0 75.0 80.0 95.0 105.0 115.0 115.0 125.0 135.0 145.0	81.5 80.7 80.0 79.3 78.6 77.8 77.5 69.6 65.7 63.7 65.7 65.7 55.4 55.4 55.2 48.6 40.9 38.1 35.0 31.8 24.0	44,090 * 43,430 * 42,760 * 42,100 * 40,520 37,560 34,980 25,680 22,480 19,880 17,720 15,930 14,390 13,070 11,920 10,910 10,000 9,210 8,500 7,870 7,290 6,780 6,280 5,860 5,440 5,070 4,710 4,380	28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 135.0 145.0 145.0 155.0	82.0 81.3 80.6 79.9 79.2 78.6 77.9 76.1 74.4 72.6 70.9 69.1 67.2 65.4 63.5 61.6 59.7 57.7 55.7 53.6 44.7 42.2 39.6 36.9 34.0 30.8 27.3 23.3	38,800 * 38,130 * 37,470 * 37,030 * 36,370 * 35,710 * 34,780 29,510 25,460 22,260 19,660 17,520 15,710 14,170 12,850 11,680 10,670 9,780 8,990 8,260 7,620 7,050 6,520 6,040 5,570 5,150 4,760 4,380 4,050 3,760 3,500	30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 125.0 135.0 140.0 155.0 155.0 160.0	81.8 81.1 80.5 79.2 78.5 76.3 72.0 70.3 68.6 65.1 63.5 59.7 57.9 54.0 49.9 47.8 45.6 43.3 40.9 43.8 35.8 33.0 29.5 22.6	33,730 * 33,060 * 32,620 * 31,960 * 31,520 * 31,080 * 29,250 25,220 22,000 19,400 17,260 15,450 13,910 12,560 11,410 10,400 9,500 8,700 8,700 8,700 6,760 6,230 5,700 5,220 4,780 4,380 4,030 3,680 3,370 3,100 2,840 2,620
	eves	4		eves	4	Ree	ves	4	Ree	eves	4	Ree	ves	2
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)									
32.0 34.0 36.0 38.0 40.0 45.0 55.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0 135.0 140.0 155.0	81.6 81.0 80.4 79.8 77.6 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.8 63.2 61.4 59.7 57.5 54.3 52.4 50.5 48.4 44.3 42.1 39.8 37.4	29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,400 4,010 3,680 3,350	34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 135.0 140.0 145.0 155.0 160.0	81.4 80.9 80.3 79.7 78.2 76.8 72.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 56.3 54.6 52.8 51.0 47.2 45.2 43.1 41.0 38.7	25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100 3,700 3,350 3,040 2,730		P 9							
160.0 165.0 170.0	34.8 32.0 29.1	3,040 2,770 2,510 2												

Fixed Jib Lift Capacity

Full Counterweight: 57,600 lbs Carbody Weight: 14,400

	80' B	oom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.))		Offset An	gle (deg.)			Offset Ar	gle (deg.)	i	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	30	Radius
(ft)	Boom Angle (deg.)	Rated Load (lbs)	(ft)														
30	79.3	24,000*															30
32	78.0	24,000*															32
34	77.0	24,000*			79.3	24,000*											34
36	75.9	24,000*			78.3	24,000*											36
38	74.9	24,000*	79.6	20,230*	77.4	24,000*			79.3	20,000*							38
40	73.8	24,000*	78.5	19,730*	76.4	24,000*			78.4	20,000*			79.8	18,000*			40
45	71.1	24,000*	75.7	18,600*	73.9	24,000*	79.7	15,360*	76.1	20,000*			77.7	17,940*			45
50	68.3	24,000*	72.8	17,610*	71.4	22,150*	77.1	14,480*	73.8	18,540*			75.6	16,330*			50
55	65.3	23,890	69.7	16,710*	68.7	20,280*	74.3	13,640*	71.3	16,950*	78.0	11,080*	73.3	14,900*			55
60	62.3	21,340	66.7	15,960*	66.1	18,800*	71.6	12,980*	68.9	15,690*	75.5	10,490*	71.2	13,750*	78.7	8,950*	60
65	59.3	19,200	63.6	15,290*	63.4	17,520*	68.8	12,360*	66.5	14,610*	73.0	9,980*	69.0	12,780*	76.4	8,480*	65
70	56.2	17,410	60.3	14,700*	60.6	16,400*	65.9	11,830*	64.0	13,660*	70.4	9,540*	66.7	11,900*	74.1	8,060*	70
75	52.8	15,780	56.7	14,150*	57.6	15,360*	62.7	11,350*	61.3	12,760*	67.6	9,100*	64.2	11,110*	71.5	7,670*	75
80	49.3	14,460	53.1	13,710*	54.6	14,520*	59.6	10,930*	58.7	12,030*	64.8	8,730*	61.9	10,440*	69.0	7,340*	80
85	45.7	13,330			51.5	13,470	56.3	10,560*	56.0	11,390*	62.0	8,420*	59.5	9,850*	66.5	7,030*	85
90	41.8	12,320			48.3	12,450	52.9	10,250*	53.2	10,800*	59.0	8,130*	57.0	9,320*	63.9	6,760*	90
95	37.2	11,370			44.6	11,500			50.0	10,250*	55.6	7,840*	54.2	8,810*	60.9	6,500*	95
100	32.4	10,600			40.8	10,710	41		46.9	9,780*	52.3	7,620*	51.5	8,390*	58.1	6,280*	100
105					36.7	10,000			43.6	9,360*			48.7	8,020*	55.0	6,100*	105
110									40.0	8,990*			45.7	7,670*	51.8	5,930*	110
115						4			35.8	8,640*			42.3	7,340*			115
120						Δ							38.8	7,050*			120
125					4								35.1	6,810*			125
Reeves	1 2	2		2		2		1		2		1	2	2		l	Reeves
	ON' R	00m															

	90' B	oom															
		30 f	t Jib				t Jib		N Y	50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)		7 4	Offset An	gle (deg.)	1		Offset Ar	gle (deg.)		Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
32	79.1	24,000*															32
34	78.1	24,000*						0 1	1								34
36	77.1	24,000*			79.3	24,000*											36
38	76.2	24,000*			78.4	24,000*			80.0	20,000*							38
40	75.2	24,000*	79.5	20,170*	77.5	24,000*			79.2	20,000*							40
45	72.7	24,000*	77.0	19,060*	75.2	24,000*			77.1	20,000*			78.6	18,000*			45
50	70.2	24,000*	74.4	18,120*	72.9	23,320*	78.2	14,810*	75.0	19,400*			76.6	17,040*			50
55	67.5	23,690	71.6	17,210*	70.4	21,400*	75.6	14,020*	72.7	17,790*	78.9	11,300*	74.5	15,580*			55
60	64.9	21,120	68.9	16,460*	68.1	19,880*	73.2	13,330*	70.5	16,510*	76.7	10,730*	72.5	14,410*	79.5	9,100*	60
65	62.2	19,000	66.1	15,800*	65.6	18,560*	70.7	12,760*	68.3	15,380*	74.4	10,250*	70.5	13,400*	77.4	8,660*	65
70	59.4	17,190	63.3	15,210*	63.2	17,370	68.1	12,230*	66.1	14,390*	72.0	9,780*	68.4	12,520*	75.3	8,240*	70
75	56.4	15,560	60.2	14,660*	60.4	15,740	65.3	11,720*	63.6	13,490*	69.5	9,360*	66.1	11,680*	72.9	7,870*	75
80	53.5	14,240	57.1	14,190*	57.8	14,410	62.5	11,300*	61.3	12,720*	67.0	8,990*	64.0	11,000*	70.7	7,530*	80
85	50.4	13,090	53.9	13,330	55.1	13,240	59.7	10,930*	58.8	12,050*	64.5	8,680*	61.8	10,400*	68.4	7,230*	85
90	47.1	12,100			52.3	12,230	56.7	10,580*	56.3	11,440*	61.8	8,370*	59.5	9,850*	66.0	6,960*	90
95 100	43.4 39.7	11,150			49.1 46.0	11,280	53.4	10,270*	53.6 50.9	10,860* 10,380*	58.9 56.1	8,110*	57.1 54.7	9,320*	63.4 60.9	6,700* 6,480*	95 100
100	39.7 35.6	10,360 9,650			46.0	10,490 9,760			48.0	9,850	53.1	7,870* 7,640*	54.7	8,880* 8,480*	58.3	6,280*	100
110	33.0	9,030			39.1	9,700			45.0	9,830	33.1	7,040	49.6	8,110*	55.5	6,100*	110
115					35.0	8,500			41.7	8,570			46.7	7,760*	52.4	5,930*	115
120					33.0	0,500			38.2	8,040			43.8	7,450*	32.7	3,230	120
125									34.4	7,560			40.7	7,180*			125
130									3	,,500			37.4	6,940*			130
135													33.8	6,720*			135
Reeves	2	2	2	2	2	2		1	2	2	1	1	1	2		1	Reeves

Carbody Weight: 14,400

Reeves

Full Counterweight: 57,600 lbs

Fixed Jib Lift Capacity

	100' E	Boom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)		Load
Radiu	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
32	79.9	24,000*															32
34	79.0	24,000*															34
36	78.1	24,000*			80.0	24,000*											36
38	77.2	24,000*			79.2	24,000*											38
40	76.4	24,000*			78.4	24,000*			79.9	20,000*							40
45	74.1	24,000*	78.0	19,480*	76.3	24,000*	70.1	15 100*	78.0	20,000*			79.3	18,000*			45
50	71.8	24,000*	75.7	18,560*	74.2	24,000* 22,480*	79.1	15,100*	76.0	20,000*	70.7	11 500*	77.5	17,680*			50
55 60	69.3 67.0	23,450 20,870	73.2 70.7	17,650* 16,930*	71.9 69.7	20,920*	76.7 74.5	14,320* 13,660*	73.9 71.9	18,580* 17,260*	79.7 77.7	11,500* 10,950*	75.5 73.7	16,200* 15,030*			55 60
65	64.5	18,730	68.2	16,260*	67.5	18,950	72.2	13,000	69.9	16,110*	75.5	10,930	71.8	13,030	78.3	8,810*	65
70	62.1	16,930	65.7	15,670*	65.3	17,150	69.9	12,560*	67.8	15,120*	73.4	10,470	69.9	13,090*	76.3	8,420*	70
75	59.4	15,290	62.9	15,100*	62.8	15,490	67.3	12,050*	65.6	14,170*	71.1	9,610*	67.8	12,250*	74.2	8,040*	75
80	56.7	13,970	60.2	14,300	60.4	14,150	64.9	11,640*	63.4	13,380*	68.8	9,230*	65.8	11,550*	72.1	7,710*	80
85	54.0	12,830	57.4	13,110	58.0	13,000	62.4	11,260*	61.2	12,690*	66.5	8,920*	63.8	10,910*	70.0	7,420*	85
90	51.2	11,810	54.5	12,050	55.5	11,970	59.8	10,910*	59.0	12,050*	64.2	8,610*	61.7	10,360*	67.9	7,160*	90
95	48.1	10,860	51.2	11,060	52.8	11,020	56.9	10,580*	56.5	11,130	61.6	8,330*	59.5	9,810*	65.5	6,900*	95
100	45.0	10,070			50.1	10,200	54.0	10,310*	54.1	10,310	59.1	8,090*	57.3	9,340*	63.2	6,670*	100
105	41.7	9,360			47.2	9,500			51.6	9,590	56.4	7,870*	55.1	8,920*	60.9	6,450*	105
110	38.1	8,730			44.3	8,860			49.0	8,950	53.7	7,690*	52.7	8,550*	58.4	6,280*	110
115	34.0	8,130			40.9	8,220	- 4		46.1	8,310			50.2	8,170*	55.7	6,100*	115
120 125					37.4 33.7	7,690	41		43.2 40.2	7,780			47.7 45.1	7,820	53.1	5,950*	120 125
130					33./	7,230			36.8	7,290 6,830		,	45.1	7,340 6,870			130
130									33.2	6,430			39.4	6,480			130
140									33.2	0,430			35.9	6,060			140
145													32.4	5,730			145

	110' E	Boom															
		30 f	t Jib	A		40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)	1		Offset An	gle (deg.)			Offset An	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	80	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)						
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
34	79.8	24,000															34
36	79.0	24,000							1								36
38	78.2	24,000			79.9	24,000*											38
40	77.3	24,000			79.2	24,000*											40
45	75.3	24,000	79.0	19,860*	77.2	24,000*	S 4		78.8	20,000*			80.0	18,000*			45
50	73.2	24,000	76.8	18,930*	75.3	24,000*	79.9	15,360*	76.9	20,000*			78.3	18,000*			50
55	70.9	23,320	74.5	18,070*	73.2	23,500*	77.7	14,610*	75.0	19,330*		44.450	76.4	16,820*			55
60	68.7	20,740	72.2	17,350*	71.2	20,960	75.6	13,970*	73.1	17,980*	78.5	11,150*	74.7	15,600*	70.1	0.070*	60
65	66.5	18,580	70.0	16,680*	69.1	18,800	73.5	13,400*	71.2	16,820*	76.5	10,670*	72.9	14,570*	79.1	8,970*	65
70	64.3	16,770	67.7	16,090*	67.1	16,970	71.4	12,870*	69.3	15,800*	74.6	10,250*	71.1	13,640*	77.2	8,570*	70
75	61.8	15,140	65.1	15,520*	64.8	15,340	69.1	12,380*	67.2	14,830*	72.4 70.4	9,830*	69.2 67.3	12,780*	75.2 73.3	8,200*	75
80 85	59.4 57.0	13,820 12,670	62.7 60.2	14,170 12,980	62.7 60.5	13,990	66.9 64.6	11,940* 11,570*	65.2 63.2	14,020* 12,960	68.3	9,470* 9,140*	65.5	12,050* 11,410*	71.4	7,890* 7,580*	80 85
90	54.5	11,660	57.6	11,980	58.2	12,830 11,810	62.2	11,370*	61.2	11,920	66.1	8,840*	63.6	10,840*	69.4	7,360*	90
95	51.8	10,710	54.8	10,930	55.7	10,840	59.7	10,890*	58.9	10,950	63.8	8,550*	61.5	10,840	67.2	7,050*	95
100	49.1	9,920	52.0	10,930	53.7	10,050	57.1	10,890	56.7	10,930	61.5	8,310*	59.5	9,780*	65.2	6,830*	100
105	46.3	9,210	32.0	10,110	50.8	9,320	54.5	9,700	54.5	9,430	59.2	8,090*	57.5	9,360*	63.0	6,630*	105
110	43.3	8,570			48.2	8,680	51.8	9,010	52.2	8,770	56.7	7,890*	55.4	8,840	60.9	6,430*	110
115	39.9	7,950			45.4	8,040	31.0	7,010	49.7	8,130	54.0	7,690*	53.1	8,200	58.4	6,260*	115
120	36.5	7,420			42.5	7,510			47.2	7,600	3	.,050	50.9	7,640	56.1	6,100*	120
125	32.7	6,960			39.4	7,050			44.5	7,120			48.6	7,160	53.6	5,970*	125
130		.,			36.1	6,610			41.8	6,650			46.2	6,700		'	130
135					32.5	6,190			38.8	6,260			43.6	6,300			135
140									35.4	5,860			40.8	5,880			140
145													37.9	5,530			145
150													34.8	5,220			150
Reeves	2	2	2	2		2		1] :	2		1	2	2		1	Reeves

2

Fixed Jib Lift Capacity

Full Counterweight: 57,600 lbs Carbody Weight: 14,400

	120' E	oom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)	1	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle		3		, ,		, ,		, ,		, ,		Boom Angle		, ,		(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
36	79.7	24,000*															36
38	79.0	24,000*			79.9	24.000*											38
40 45	78.2 76.3	24,000* 24,000*	79.7	20,190*	79.9 78.1	24,000* 24,000*			79.5	20,000*							40 45
50	74.3	24,000*	77.7	19,290*	76.1	24,000*			77.7	20,000*			78.9	18,000*			50
55	72.2	23,100	75.6	18,450*	74.3	23,360	78.5	14,880*	75.9	20,000*			77.2	17,390*			55
60	70.2	20,520	73.5	17,720*	72.4	20,760	76.6	14,240*	74.2	18,690*	79.2	11,330*	75.6	16,180*			60
65	68.2	18,360	71.4	17,080*	70.5	18,580	74.7	13,690*	72.4	17,500*	77.4	10,860*	73.9	15,120*	79.7	9,080*	65
70 75	66.1 63.9	16,550 14,920	69.3 67.0	16,490* 15,340	68.6 66.5	16,770 15,100	72.7 70.6	13,160* 12,670*	70.6 68.7	16,440* 15,250	75.6 73.6	10,420* 10,030*	72.2 70.4	14,170* 13,290*	78.0 76.1	8,700* 8,350*	70 75
80	61.7	13,600	64.8	13,340	64.5	13,770	68.5	12,070	66.8	13,230	71.7	9,670*	68.7	12,560*	74.4	8,040*	80
85	59.5	12,430	62.6	12,780	62.5	12,610	66.4	11,860*	65.0	12,740	69.7	9,340*	67.0	11,900*	72.6	7,730*	85
90	57.3	11,410	60.2	11,720	60.5	11,570	64.3	11,500*	63.1	11,700	67.8	9,060*	65.2	11,300*	70.7	7,470*	90
95	54.8	10,470	57.7	10,730	58.2	10,620	62.0	11,130	61.0	10,730	65.6	8,770*	63.3	10,730*	68.7	7,230*	95
100	52.4 49.9	9,650 8,950	55.2 52.6	9,890 9,140	56.0 53.8	9,810 9,080	59.7 57.4	10,290 9,520	59.0 57.0	9,920 9,190	63.6 61.4	8,500* 8,280*	61.5 59.6	9,980 9,250	66.8 64.9	7,010* 6,790*	100 105
1105	49.9	8,310	32.0	9,140	51.5	9,080 8,440	55.0	8,840	54.9	8,530	59.3	8,060*	57.7	8,590	62.9	6,610*	110
115	44.5	7,690			49.0	7,800	52.3	8,150	52.6	7,890	56.8	7,870*	55.6	7,950	60.7	6,410*	115
120	41.6	7,160			46.5	7,270			50.4	7,360	54.5	7,690*	53.6	7,400	58.6	6,260*	120
125	38.5	6,670			43.8	6,790			48.1	6,850	52.1	7,250	51.5	6,920	56.4	6,100*	125
130	35.3	6,230			41.1	6,320	41		45.7	6,410			49.3 47.1	6,450	54.1 51.7	5,970*	130
135 140	31.7	5,840			38.1 34.7	5,930 5,530			43.1 40.3	5,990 5,590			44.6	6,040 5,640	51./	5,860*	135 140
145					J-1.7	3,330			37.4	5,240			42.2	5,290			145
150									34.3	4,910			39.6	4,960			150
155													36.8	4,650			155
160									4				33.6	4,340			160
Reeves	1	2	2	2	2	2		1	2	2			2	2		1	Reeves

	130' B	oom										·					
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)	1		Offset An	gle (deg.)	1		Offset An	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	(ft)
38 40 45 50 55 60 65 70 75 80 95 100 105 115 120 125 130 145 155 160 165 170	79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7 65.6 61.6 59.6 57.3 55.2 52.9 50.6 48.1 45.6 43.0 40.2 37.3 33.9	24,000* 24,000* 24,000* 24,000* 22,880 18,140 16,330 14,680 12,210 11,170 10,220 9,430 8,700 8,060 7,450 6,920 6,430 5,990 5,570 5,200	78.5 76.5 74.6 72.7 70.7 68.6 66.6 64.5 62.4 60.1 57.9 55.6 53.2	19,620* 18,780* 18,070* 17,430* 16,860 15,140 13,770 11,530 10,510 9,700 8,950 8,260	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 60.3 58.3 56.3 54.2 51.9 49.7 47.4 45.0 42.5 39.6 36.8 33.7	24,000* 24,000* 23,170 18,380 16,550 14,880 13,550 11,350 11,350 10,380 9,560 8,200 7,560 7,030 6,540 6,080 5,680 5,680 4,930 4,600	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 63.9 61.9 59.8 57.6 55.2 52.9	15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140* 10,950 10,090 9,340 8,640 7,980 7,400	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 57.2 55.1 53.1 51.0 48.8 46.6 44.1 41.7 39.1 36.3 33.1	20,000* 20,000* 20,000* 19,330* 18,140* 16,710 15,030 13,690 12,520 11,480 10,510 9,700 8,950 8,310 7,670 7,120 6,630 6,170 5,750 5,350 5,000 4,670 4,360 4,030	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 61.4 59.2 57.1 54.9 52.6	11,480* 11,020* 10,620* 10,200* 9,550* 9,540* 8,700* 8,480* 8,260* 8,040* 7,600 7,070 6,590	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0 52.0 50.0 47.8 45.6 43.3 41.0 38.3 35.6 32.7	18,000* 17,920* 16,710* 15,630* 14,680* 13,800* 13,050* 12,360* 11,570 10,580 9,760 9,030 8,370 7,780 6,670 6,230 5,820 5,400 5,040 4,710 4,400 4,070 3,760 3,480	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 64.6 62.6 60.7 58.7 56.6 54.5 52.2	8,840* 8,480* 8,170* 7,890* 7,360* 7,140* 6,940* 6,560* 6,390* 6,230* 6,100* 5,970* 5,840	38 40 45 50 55 60 65 70 75 80 85 90 95 100 105 115 115 120 125 130 135 140 145 150 160 165
Reeves	2	2	2	2	2	2	·	1		2		1	2	2		1	Reeves

Carbody Weight: 14,400

Full Counterweight: 57,600 lbs

1

Reeves

Fixed Jib Lift Capacity

Reeves

2

2

2

	140' E	Boom															
		30 f	t Jib			40 f	t Jib		50 ft Jib				60 ft Jib				
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)		Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle		Boom Angle	Rated Load	Boom Angle	Rated Load	, ,	1	, ,	Rated Load	Boom Angle	Rated Load	Boom Angle			Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
40	79.6	24,000*															40
45	77.9	24,000*			79.4	24,000*											45
50 55	76.2	24,000*	79.2	19,900*	77.8	24,000*	70.0	15 220*	79.1	20,000*			70.5	10.000*			50 55
60	74.4 72.6	22,680 20,080	77.4 75.6	19,090* 18,400*	76.1 74.4	22,970 20,340	79.9 78.2	15,320* 14,720*	77.4 75.9	20,000* 19,970*			78.5 77.0	18,000* 17,210*			60
65	70.9	17,940	73.8	17,760*	72.8	18,180	76.2 76.5	14,720*	74.3	18,360	78.8	11,170*	77.0 75.6	16,130*			65
70	69.1	16,110	72.0	16,680	71.1	16,330	74.8	13,690*	72.8	16,510	77.2	10,780*	74.1	15,160*	79.3	8,950*	70
75	67.2	14,460	70.0	14,960	69.3	14,680	72.9	13,180*	71.1	14,830	75.5	10,380*	72.5	14,260*	77.7	8,590*	75
80	65.3	13,130	68.1	13,600	67.6	13,330	71.2	12,760*	69.4	13,490	73.8	10,030*	71.0	13,490*	76.1	8,310*	80
85	63.5	11,970	66.2	12,380	65.9	12,160	69.4	12,380*	67.8	12,300	72.1	9,720*	69.4	12,410	74.5	8,020*	85
90	61.6	10,950	64.3	11,330	64.1	11,130	67.6	11,810	66.2	11,260	70.4	9,430*	67.9	11,350	72.9	7,760*	90
95	59.5	9,980	62.2	10,310	62.2	10,160	65.6	10,780	64.4	10,290	68.6	9,120*	66.2	10,380	71.2	7,510*	95
100 105	57.5 55.5	9,190 8,460	60.1	9,500	60.3	9,340	63.7 61.8	9,920	62.7 60.9	9,470	66.8	8,880*	64.6	9,540	69.5	7,270*	100 105
110	53.4	7,820	58.1 55.9	8,750 8,060	58.5 56.6	8,610 7,950	59.8	9,140 8,460	59.2	8,730 8,060	65.0 63.2	8,660* 8,440*	63.0 61.4	8,810 8,150	67.8 66.1	7,070* 6,870*	110
115	51.1	7,020	53.5	7,400	54.5	7,340	57.6	7,780	57.2	7,420	61.2	8,000	59.6	7,490	64.3	6,700*	115
120	48.9	6,650	51.3	6,850	52.5	6,790	55.5	7,200	55.4	6,900	59.3	7,420	57.9	6,960	62.5	6,520*	120
125	46.6	6,170		,	50.4	6,300	53.4	6,670	53.5	6,390	57.3	6,900	56.1	6,450	60.7	6,370*	125
130	44.2	5,730			48.2	5,840			51.6	5,930	55.3	6,390	54.3	5,990	58.8	6,230*	130
135	41.7	5,330			46.0	5,420			49.5	5,510	53.1	5,950	52.5	5,570	56.9	6,100*	135
140	38.8	4,910			43.5	5,020			47.3	5,090			50.5	5,150	54.7	5,640	140
145 150	36.0 32.9	4,560			41.1	4,670	41		45.1	4,730			48.5	4,800	52.7	5,240	145 150
155	32.9	4,210			38.5 35.7	4,320 3,940			42.9 40.5	4,400 4,030			46.5 44.4	4,470 4,100			155
160					32.5	3,610			37.8	3,680			42.0	3,720			160
165					32.3	3,010			35.1	3,370			39.7	3,410			165
170									32.2	3,080			37.3	3,130			170
175									1				34.6	2,840			175

2

1

	150' B	Boom															
			t Jib	-A		40 f				50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)						
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
45	78.6	24,000*			80.0	24,000*											45
50	77.0	24,000*	79.9	20,170*	78.5	24,000*			79.6	20,000*							50
55	75.3	22,530	78.1	19,370*	76.8	22,810			78.1	20,000*			79.1	18,000*			55
60	73.6	19,920	76.4	18,690*	75.3	20,190	78.9	14,920*	76.6	20,000*	70.4	11 220*	77.7	17,700*			60
65	72.0	17,790	74.8	18,070*	73.7	18,030	77.3	14,390*	75.1	18,200	79.4	11,330*	76.3	16,600* 15,650*	70.0	9,060*	65
70	70.3	15,960	73.1	16,550	72.1	16,180	75.7 73.9	13,910*	73.7 72.1	16,350 14,680	77.9 76.3	10,930* 10,530*	74.9 73.4	14,720*	79.9 78.3	8,700*	70
75	68.5	14,300	71.2 69.5	14,830	70.5	14,520 13,180	73.9	13,420* 13,000*	72.1	13,330	76.3	10,330**	73.4	13,420	76.8	8,420*	75
80	66.8 65.1	12,980 11,810	67.7	13,470 12,250	68.8 67.2	12,010	72.5 70.6	12,630*	69.0	12,140	73.1	9,870*	70.5	12,230	75.3	8,130*	80 85
85 90	63.3	10,800	65.9	12,230	65.6	10,970	68.9	11,680	67.5	11,110	71.5	9,590*	69.0	11,190	73.8	7,890*	90
95	61.4	9,830	63.9	10,180	63.8	10,970	67.1	10,670	65.8	10,110	69.8	9,300*	67.4	10,200	72.2	7,620*	95
100	59.6	9,010	62.1	9,340	62.1	9,190	65.3	9,810	64.2	9,300	68.2	9,060*	65.9	9,390	70.6	7,400*	100
105	57.7	8,310	60.2	8,590	60.4	8,460	63.5	9,030	62.6	8,570	66.5	8,810*	64.4	8,640	69.1	7,200*	105
110	55.8	7,640	58.2	7,910	58.6	7,800	61.7	8,330	60.9	7,910	64.8	8,570	62.9	7,980	67.5	7,010*	110
115	53.7	7,030	56.1	7,270	56.7	7,160	59.7	7,670	59.1	7,270	62.9	7,890	61.2	7,340	65.7	6,830*	115
120	51.7	6,500	54.0	6,700	54.8	6,610	57.8	7,090	57.4	6,720	61.2	7,290	59.6	6,790	64.1	6,650*	120
125	49.6	5,990	51.8	6,190	52.9	6,120	55.8	6,560	55.7	6,210	59.3	6,760	58.0	6,280	62.4	6,500*	125
130	47.5	5,550			51.0	5,660	53.8	6,080	53.9	5,750	57.5	6,280	56.3	5,820	60.7	6,370*	130
135	45.3	5,150			49.0	5,260			52.0	5,330	55.6	5,820	54.6	5,400	58.9	5,970	135
140	42.8	4,730			46.7	4,850			50.0	4,930	53.4	5,350	52.8	4,980	57.0	5,530	140
145	40.3	4,320			44.6	4,450			48.1	4,560			51.0	4,620	55.1	5,130	145
150	37.8	3,940			42.3	4,050			46.1	4,160			49.2	4,230	53.1	4,760	150
155	35.0	3,590			39.9	3,700			43.9	3,790			47.3	3,850			155
160	31.8	3,260			37.3	3,350			41.6	3,430			45.2 43.1	3,480 3,170			160
165					34.6	3,040			39.3 36.8	3,100			43.1	2,860			165
170 175									36.8	2,820 2,550			38.7	2,860			170 175
Reeves	2	2	2)		2	1	<u> </u>		2			2	2		1	Reeves

Carbody Weight: 14,400

Full Counterweight: 57,600 lbs

46.0

44.1

2

1

2,860

2,550

165

170

Reeves

Fixed Jib Lift Capacity

2,600

165

170 Reeves 33.9

2

38.8

2

2

2,710

1

	160' E	Boom															
		30 f	t Jib			40 f	ft Jib		50 ft Jib				60 ft Jib				
Load		Offset An	gle (deg.))		Offset An	ngle (deg.))	Offset Angle (deg.)				Offset Angle (deg.)				Load
Radius	1	0	3	0	1	0	3	80	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle (deg.)	Rated Load (lbs)	(ft)														
45 50	79.2 77.7	24,000* 24,000*	70.0	19.640*	79.0	22,830*			78.7	20.000*			79.6	18,000*			45 50
55 60	76.1 74.5	22,350 19,750	78.8 77.2	18,950*	77.5 76.0	22,000*	79.5	15,120*	77.3	20,000* 19,200*	00.0	11 440*	78.3	17,800*			55 60
65 70	73.0 71.4	17,590 15,760	75.6 74.0	18,290 16,400	74.6 73.1	17,850 16,000	78.0 76.4	14,590* 14,100*	75.9 74.5	18,030 16,180	80.0 78.5	11,440* 11,060*	76.9 75.6	17,060* 16,090*			65 70
75 80	69.7 68.1	14,100 12,780	72.3 70.7	14,680 13,290	71.5 70.0	14,320 12,980	74.8 73.2	13,640* 13,220*	72.9 71.5	14,500 13,130	77.0 75.5	10,670* 10,330*	74.2 72.8	14,610 13,240	78.9 77.5	8,810* 8,530*	75 80
85 90	66.5 64.8	11,610 10,580	69.0 67.3	12,080 11,020	68.4 66.9	11,810 10,780	71.7 70.1	12,630 11,530	70.1 68.6	11,940 10,910	74.0 72.5	10,030* 9,740*	71.4 70.0	12,050 11,000	76.1 74.6	8,240* 8,000*	85 90
95 100	63.0 61.3	9,630 8,810	65.5 63.8	10,000 9,170	65.2 63.6	9,780 8,970	68.4 66.7	10,510 9,650	67.0 65.5	9,920 9,100	70.9 69.3	9,450* 9,210*	68.5 67.1	10,000 9,190	73.1 71.6	7,760* 7,530*	95 100
105 110	59.6 57.9	8,090 7,450	62.0 60.2	8,420 7,730	62.0 60.4	8,240 7,580	65.1 63.4	8,880 8,170	64.0 62.5	8,370 7,690	67.8 66.2	-,	65.7 42064.2	8,440 7,780	70.2 68.7	7,310* 7,140*	105 110
115 120	55.9 54.1	6,810 6,280	58.2 56.3	7,070 6,520	58.6 56.9	6,940 6,410	61.5 59.8	7,490 6,920	60.8 59.2	7,050 6,500	64.5 62.8	7,730 7,140	62.7 61.2	7,140 6,590	67.0 65.5	6,940* 6,790*	115 120
125 130	52.2 50.3	5,770 5,330	54.4 52.4	5,990 5,530	55.1 53.3	5,900 5,440	58.0 56.1	6,390 5,900	57.6 55.9	6,010 5,550	61.1 59.4	6,610 6,100	59.7 58.1	6,080 5,620	63.9 62.3	6,610* 6,280	125 130
135 140	48.2 46.0	4,890 4,400			51.5 49.5	5,020 4,560	54.2 52.1	5,440 5,000	54.2 52.4	5,130 4,670	57.6 55.7	5,640 5,200	56.5 54.8	5,180 4,760	60.7 58.9	5,820 5,350	135 140
145 150	43.9 41.6	4,010 3,610			47.5 45.5	4,140 3,740	4		50.6 48.7	4,250 3,850	53.8 51.9	4,800 4,430	53.2 51.5	4,320 3,920	57.1 55.4	4,960 4,580	145 150
155 160	39.3 36.6	3,260 2,910			43.4 41.1	3,370 3,020			46.8 44.8	3,480 3,100			49.7 47.8	3,540 3,170	53.6 51.5	4,230 3,810	155 160
4.65	1 22 0	2 600	1	1	20.0	2 710			42.7	2 700			100	2000		1	1 4 6 5

42.7

2,790

2

	170' B	oom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset Ar	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	30	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)						
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
45	79.8	23,360*															45
50	78.3	22,830*			79.6	20,800*			1								50
55	76.8	22,150	79.4	19,860*	78.1	20,000*			79.2	18,500*			80.0	17,000*			55
60	75.3	19,550	77.9	19,220*	76.7	19,200*	80.0	15,290*	77.9	17,800*			78.8	16,400*			60
65	73.8	17,370	76.4	18,120	75.3	17,630	78.6	14,770*	76.5	17,100*			77.5	15,800*			65
70	72.4	15,560	74.9	16,220	73.9	15,800	77.1	14,300*	75.2	15,980	79.1	11,170*	76.2	15,200*			70
75	70.8	13,880	73.2	14,500	72.4	14,130	75.6	13,840*	73.8	14,280	77.6	10,800*	74.9	13,980*	79.4	8,900*	75
80	69.3	12,560	71.7	13,090	71.0	12,760	74.1	13,420*	72.4	12,940	76.2	10,490*	73.6	13,050	78.1	8,610*	80
85	67.7	11,390	70.1	11,880	69.5	11,590	72.6	12,450	71.0	11,750	74.8	10,180*	72.3	11,860	76.7	8,350*	85
90	66.2	10,360	68.6	10,820	68.1	10,560	71.1	11,370	69.6	10,690	73.4	9,890*	71.0	10,800	75.4	8,110*	90
95	64.5	9,390	66.9	9,810	66.5	9,560	69.5	10,330	68.2	9,720	71.9	9,610*	69.5	9,810	73.9	7,870*	95
100	62.9	8,590	65.2	8,970	65.0	8,750	68.0	9,470	66.7	8,880	70.4	9,360*	68.2	8,970	72.5	7,640*	100
105	61.3	7,870	63.6	8,220	63.5	8,020	66.4	8,680	65.3 63.9	8,150	68.9	8,970	66.8 65.5	8,220	71.1 69.7	7,450*	105
110 115	59.7 57.9	7,200 6,560	61.9 60.1	7,530 6,870	61.9 60.3	7,360 6,720	64.8 63.1	8,000 7,310	62.3	7,470 6,830	67.4 65.8	8,240 7,560	64.0	7,560 6,920	68.2	7,250* 7,050*	110
120	56.2	6,040	58.3	6,300	58.7	6,170	61.5	6,720	60.8	6,280	64.3	6,960	62.6	6,340	66.7	6,900*	120
125	54.4	5,550	56.5	5,790	57.0	5,680	59.8	6,190	59.3	5,770	62.7	6,410	61.1	5,860	65.2	6,610	125
130	52.6	5,070	54.7	5,310	55.4	5,220	58.1	5,700	57.7	5,310	61.1	5,930	59.7	5,370	63.7	6,100	130
135	50.8	4,560	52.8	4,850	53.7	4,730	56.4	5,260	56.1	4,870	59.5	5,460	58.2	4,960	62.2	5,640	135
140	48.8	4,070	32.0	1,050	51.8	4,230	54.4	4,820	54.4	4,360	57.7	5,000	56.6	4,450	60.5	5,180	140
145	46.9	3,650			50.1	3,810	52.6	4,360	52.8	3,920	56.0	4,620	55.1	4,010	58.9	4,780	145
150	44.8	3,280			48.2	3,410		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	51.1	3,520	54.2	4,160	53.5	3,610	57.3	4,380	150
155	42.7	2,930			46.3	3,060			49.3	3,150	52.4	3,760	51.9	3,240	55.6	3,960	155
160	40.4	2,570			44.2	2,680			47.4	2,790			50.2	2,860	53.8	3,540	160
165													48.5	2,530	52.0	3,170	165
Reeves	2	2	2	2	2	2		1	- 2	2	2	2	2	2		1	Reeves

Carbody Weight: 14,400

Full Counterweight: 57,600 lbs

Fixed Jib Lift Capacity

	180' E	oom															
		30 f	t Jib			40 f	t Jib	b 50 ft Jib					60 ft Jib				
Load		Offset An	gle (deg.)			Offset Angle (deg.)				Offset An	gle (deg.)			Offset Ar	ngle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
50	78.9	19,770*															50
55	77.4	19,240*	79.9	19,060*	78.7	18,500*			79.7	17,000*							55
60	76.0	18,760*	78.5	18,580*	77.3	17,800*			78.4	16,400*			79.3	15,000*			60
65	74.6	17,190	77.1	17,960	76.0	17,100*	79.1	14,740*	77.1	15,800*			78.0	14,500*			65
70	73.2	15,360	75.6	16,070	74.7	15,630	77.7	14,460*	75.9	15,200*	79.6	11,300*	76.8	14,000*			70
75	71.7	13,710	74.1	14,350	73.2	13,950	76.3	14,020*	74.5	13,980*	78.2	10,930*	75.5	13,500*	79.9	8,990*	75
80	70.3	12,360	72.6	12,940	71.9	12,580	74.9	13,580	73.2	12,760	76.9	10,600*	74.3	12,870	78.6	8,700*	80
85	68.8	11,190	71.2	11,720	70.5	11,410	73.5	12,320	71.9	11,570	75.5	10,310*	73.0	11,680	77.3	8,460*	85
90	67.4	10,180	69.7	10,640	69.1	10,360	72.1	11,220	70.6	10,510	74.2	10,030*	71.8	10,620	76.0	8,200*	90
95	65.8	9,190	68.1	9,630	67.6	9,390	70.5	10,180	69.2	9,520	72.7	9,740*	70.4	9,630	74.6	7,950*	95
100	64.3	8,390	66.5	8,790	66.2	8,570	69.1	9,320	67.8	8,700	71.4	9,500*	69.2	8,790	73.3	7,760*	100
105	62.8	7,670	65.0	8,040	64.8	7,820	67.6	8,550	66.5	7,950	70.0	8,810	67.9	8,040	72.0	7,530*	105
110	61.3	7,010	63.4	7,360	63.3	7,160	66.1	7,840	65.1	7,290	68.5	8,110	66.6	7,360	70.7	7,360*	110
115	59.6	6,370	61.7	6,670	61.8	6,520	64.5	7,160	63.6	6,630	67.0		40065.2	6,720	69.2	7,160*	115
120	58.0	5,840	60.1	6,120	60.3	5,970	63.0	6,560	62.2	6,080	65.6	6,810	63.8	6,170	67.8	7,010*	120
125	56.4	5,310	58.4	5,590	58.8	5,460	61.4	6,040	60.8	5,570	64.1	6,260	62.5	5,660	66.4	6,480	125
130	54.7	4,780	56.7	5,110	57.2	4,960	59.8	5,550	59.3	5,090	62.6	5,770	61.1	5,180	65.0	5,970	130 135
135 140	53.0 51.2	4,270 3,790	55.0 53.1	4,580 4,070	55.6 53.9	4,450 3,940	58.2 56.4	5,090 4,580	57.8 56.2	4,580 4,070	61.1 59.4	5,310 4,850	59.7 58.2	4,670 4,160	63.6 62.0	5,480 5,020	140
145	49.4	3,790	51.3	3,610	52.3	3,520	54.7	4,380	54.7	3,630	57.8	4,380	56.8	3,720	60.5	4,620	145
150	49.4 47.6	2,970	31.3	3,010	50.6	3,130	53.0	3,680	53.1	3,240	56.2	3,940	55.3	3,720	59.0	4,020	150
155	45.7	2,600			48.8	2,750	33.0	3,000	51.5	2,860	54.5	3,520	53.8	2,930	57.5	3,740	155
160	13.7	2,000			10.0	2,750			31.3	2,000	52.7	3,100	52.2	2,550	55.8	3,320	160
165											32.7	3,100	32.2	2,550	54.1	2,950	165
170									4						52.4	2,600	170
Reeves	- 2	2	2	2	1	2		ı			À	i		ı		1	Reeves

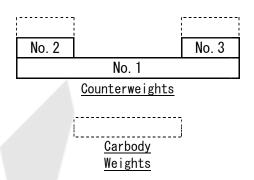
Supplemental Data - Clamshell

- 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).
- 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 39,000 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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)	16,000

- 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 39,000 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: 70 ft (21.3 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

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 (39,000 lbs) - Without Carbody weights - Crawlers in extended position.

40'	40' Boom		50' Boom			60)' Boo	m	70' Boom			
Radius	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	
22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	63.6 60.3 56.9 53.4 49.7 45.7 41.5 36.9 31.6 25.5	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 *	26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0	64.2 61.6 58.9 56.2 53.3 50.4 47.3 44.1 40.6 36.9 32.8 28.2	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 15,400 *	30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0	64.5 62.4 60.2 58.0 55.7 53.3 50.9 48.3 45.7 42.9 40.0 36.9 33.5 29.8 25.6	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 15,200 * 14,500 13,600 13,000 12,300 11,900	34.0 36.0 38.0 40.0 42.0 44.0 48.0 50.0 52.0 54.0 56.0 62.0 64.0 66.0	64.8 63.0 61.1 59.2 57.3 55.3 51.2 49.0 46.8 44.5 42.1 39.6 36.9 34.0 30.9 27.5	16,000 * 16,000 * 16,000 * 16,000 * 15,800 * 15,600 * 15,200 * 14,300 * 13,600 * 12,300 * 11,600 * 11,200 * 10,800 * 10,100 * 9,700 *	

Supplemental Data - Barge

- 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).
- 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.
- 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 57,600 lbs (5) Counterweights fully installed.
 - Must have 14,400 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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.
- 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)	320		Not Ap	plicable	

When auxiliary sheave is used for 10 or 9 reeving parts of line, it is not required to deduct 320 lbs from rated loads.

- 8. To install the jib is prohibited when the machine is on a barge.
- The total load that can be lifted over an auxiliary sheave is the value for 320 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 17,000 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)	17,000	34,000	51,000	68,000	85,000

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

Maximum Load for Auxiliary Sheave

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

14. Weight of recommended hook block.

Hook Block	85 t	55 t	35 t	21 t	7 t ball hook
Weight (lbs)	1,765	1,545	1,105	885	355

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 of than that specified can reduce operating capacity.
- 16. Designed and rated to comply with ANSI Code B30.5.

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

Barge

5 Counterweights (57,600 lbs) - 2 Carbody weights (14,400 lbs) - Crawlers in extended position.

	40'	' Boon	n				50	' Boon	n				60	' Boon	n		
	70			d Lood (lb	26)		50			Lload (lh	> </th <th></th> <th>00</th> <th></th> <th></th> <th>d I ood (lb</th> <th>) and</th>		00			d I ood (lb) and
Load	Boom	0 Degree	1 Degree	Load (Ib	2 Degree	Load	Boom	0 Degree	50° Rateo	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	Load (Ib	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List
10.0	81.7	170,000 *				12.0	81.1	166,400*				13.0	81.6	154,200 *			
11.0	80.3	170,000 *				13.0	79.9	154,400 *				14.0	80.7	143,800 *			
12.0 13.0	78.8 77.4	266,600 * 154,600 *				14.0 15.0	78.8 77.6	144,000 * 134,900 *				15.0 16.0	79.7 78.7	134,700 * 126,700 *			
14.0	75.9	144,200 *				16.0	76.4	126,900 *				17.0	77.7	119,500 *			
15.0	74.4	135,100 *	135,100 *			17.0	75.2	119,700*				18.0	76.8	113,000 *			
16.0	72.9	127,100 *	127,100 *	405 400		18.0	74.0	113,200 *	105,400			19.0	75.8	105,460	20.000		
17.0 18.0	71.4 69.9	119,900 * 113,400 *	119,900 * 113,400 *	105,100		19.0 20.0	72.8 71.6	105,660 97,350	97,100 90,500			20.0	74.8 72.8	97,130 83,790	89,000 77,500		
19.0	68.3	105,820	98,900 *	93,300		22.0	69.2	84,010	78,800	73,500		24.0	70.8	73,560	68,500	63,600	
20.0	66.7	97,500	92,100	86,400		24.0	66.7	73,810	69,700	65,500		26.0	68.7	65,490	61,400	57,900	51,000
22.0 24.0	63.6 60.3	84,190 74,000	80,100 70,800	75,700 67,300	71,700 64,700	26.0 28.0	64.2 61.6	65,760 59,230	62,400 56,400	59,000 53,700	56,100 51,400	28.0	66.6 64.5	58,970 53,570	55,600 50,700	52,700 48,200	49,100 45,800
26.0	56.9	65,980	63,300	60,500	58,100	30.0	58.9	53,850	51,500	49,200	47,300	32.0	62.4	49,030	46,600	44,500	42,500
28.0	53.4	59,400	57,200	55,000	53,000	32.0	56.2	49,310	47,300	45,500	43,700	34.0	60.2	45,170	43,100	41,000	39,400
30.0	49.7	54,100	52,300	50,400	48,700	34.0	53.3	45,480	43,700	42,200	40,700	36.0	58.0	41,840	40,000	38,400	36,900
32.0 34.0	45.7 41.5	49,580 45,740	48,100 44,500	46,500 43,200	45,100 42,100	36.0 38.0	50.4 47.3	42,150 39,280	40,600 37,900	39,300 36,800	38,100 35,500	38.0 40.0	55.7 53.3	38,950 36,410	37,300 35,000	35,800 33,900	34,700 32,700
36.0	36.9	42,460	41,400	40,300	39,400	40.0	44.1	36,750	35,700	34,800	33,800	45.0	47.0	31,230	30,200	29,300	28,500
												50.0	40.0	27,290	26,400	25,900	25,300
															•		
									A								
Ree	ves	10	8	7	5	Ree	eves	10	7	5	4	Ree	eves	10	6	4	4
Ree		10 Boon		7	5	Ree		10 Boon		5	4	Ree		10 Boon		4	4
Ree		Boon	n	7 d Load (lk		Ree		Boon			3	Ree		' Boor	n	4 Load (lb	-
Load Radius		Boon	n			Ree Load Radius		Boon	n		3	Load Radius		' Boor	n		-
Load Radius (ft)	Boom Angle (deg.)	Boon 30 Degree Machine List	n 60° Rateo	d Load (Ik	os) 2 Degree	Load Radius (ft)	Boom Angle (deg.)	Boon 36 0 Degree Machine List	O° Rateo	Load (Ib	os) 2 Degree	Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	n 50° Rateo	Load (Ik	os) 2 Degree
Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List 143,600 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.) 81.6	Boon O Degree Machine List 126,300 *	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.) 81.9	Boon 30 0 Degree Machine List 118,820*	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft)	Boom Angle (deg.)	Boon 30 Degree Machine List	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.)	30 0 Degree Machine List 126,300 * 119,100 *	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0	Boom Angle (deg.) 82.0 81.2	Boon 30 0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0	Boom Angle (deg.) 81.6 80.8	Boon O Degree Machine List 126,300 *	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.9 81.2	30 0 Degree Machine List 118,820 * 112,400 *	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7	Boon 30 O Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6	O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8	30 Degree Machine List 143,600 * 126,500 * 119,300 * 112,800 * 105,400	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2	30 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	30 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7	Boon 30 O Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6	O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6	Boon 0 Degree Machine List 143,600 * 126,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470	1 Degree Machine List	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7	Boon 36 0 Degree Machine List 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680	1 Degree Machine List 60,000 54,200	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4	Boon 30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	1 Degree Machine List 53,700 49,000	Load (Ik 2 Degree Machine List	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6 71.9	Boon 0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380	1 Degree Machine List	Load (Ik 2 Degree Machine List	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2	Boon 36 0 Degree Machine List 119,100 * 112,600 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260	1 Degree Machine List 60,000 54,200 49,500	Load (Ik 2 Degree Machine List	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	Boon 0 Degree Machine List 118,820 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580	1 Degree Machine List 53,700 49,000 45,000	Load (It	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6	Boon 0 Degree Machine List 143,600 * 126,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470	1 Degree Machine List	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7	Boon 36 0 Degree Machine List 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680	1 Degree Machine List 60,000 54,200	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4	Boon 30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	1 Degree Machine List 53,700 49,000	Load (Ik 2 Degree Machine List	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6	Boor 0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100	Load (Ik 2 Degree Machine List 51,600 47,300 43,700	2 Degree Machine List 42,400 40,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 66.6	Boon 36 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490	60,000 54,200 49,500 42,000 39,000	2 Degree Machine List 42,800 39,700 36,900	2 Degree Machine List 35,800 34,500	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	90 Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100	Load (Ik 2 Degree Machine List 41,700 38,900 36,300 34,200	2 Degree Machine List
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 168.4 66.6 64.8	Boor 0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500	Load (Ik 2 Degree Machine List 51,600 47,300 43,700 40,500	2 Degree Machine List 42,400 40,900 38,400	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	800 Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 66.6 65.0	Boon 36 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580	60,000 54,200 49,500 42,000 39,000 36,500	2 Degree Machine List 42,800 39,700 36,900 34,600	2 Degree Machine List 35,800 34,500 32,700	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	90 Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100 34,000	41,700 38,900 36,300 34,200 32,100	2 Degree Machine List
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6	Boor 0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100	Load (Ik 2 Degree Machine List 51,600 47,300 43,700	2 Degree Machine List 42,400 40,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 66.6	Boon 36 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490	60,000 54,200 49,500 42,000 39,000	2 Degree Machine List 42,800 39,700 36,900	2 Degree Machine List 35,800 34,500 32,700 30,900	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	90 Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300	41,700 38,900 36,300 34,200 32,100 27,700	2 Degree Machine List
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 671.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800	51,600 47,300 43,700 40,500 37,700 35,000 33,300	2 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900	Load Radius (ft) 16.0 17.0 18.0 19.0 22.0 24.0 26.0 32.0 32.0 34.0 36.0 38.0 40.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 77.2 77.2 77.2 71.2 69.7 68.1 66.6 65.0 63.4 59.3 55.0	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 25,700	42,800 39,700 36,900 34,600 32,600 28,200 24,700	35,800 34,500 32,700 30,900 27,000 23,800	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 69.3 68.0 66.6 63.0 59.4 55.6	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520	53,700 49,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600	29,900 26,400 23,400 20,800
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 671.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2 54.3	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800	2 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 77.2 77.2 77.2 77.2 77.2 69.7 66.6 65.0 63.4 59.3 55.0 50.5	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 25,700 22,800	42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000	35,800 34,500 32,700 30,900 27,000 23,800 21,300	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 69.3 68.0 66.6 63.0 59.4 55.6 51.6	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 58,570 58,570 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400	29,900 26,400 23,400 20,800 18,700
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 68.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300	42,400 40,900 38,400 35,900 31,900 27,700 24,600	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 38.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 58,570 58,570 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 20,100 18,100	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600	29,900 26,400 23,400 20,800 18,700 17,000
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 671.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2 54.3	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800	2 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 77.2 77.2 77.2 77.2 77.2 69.7 66.6 65.0 63.4 59.3 55.0 50.5	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 25,700 22,800	42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000	35,800 34,500 32,700 30,900 27,000 23,800 21,300	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 58,570 58,570 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400	29,900 26,400 23,400 20,800 18,700
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 36.0 38.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 35.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 30.0 33.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 35.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 38.0 38.0 34.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 35.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 35.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 20.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 50.0 65.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 34.0 38.0 34.0 35.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600

Barge

5 Counterweights (57,600 lbs) - 2 Carbody weights (14,400 lbs) - Crawlers in extended position.

	100)' Booi	m				110)' Boo	m				120)' Booi	m		
	100			d Load (lk	25)		360° Rated Load (lbs)						120	360° Rated Load (lbs)			
Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine	Machine List
19.0	81.5	101,850*	List	List	List	20.0	81.8	92,590	List	List	List	22.0	81.5	80,680 *	List	List	List
20.0	80.9	96,800				22.0	80.7	83,260				24.0	80.5	72,950			
22.0	79.8	83,400				24.0	79.7	73,010				26.0	79.6	64,810			
24.0	78.6	73,120				26.0	78.6	64,900				28.0	78.6	58,240			
26.0 28.0	77.4 76.3	65,010 58,440				28.0	77.5 76.5	58,330 52,880				30.0 32.0	77.6 76.6	52,800 48,230			
30.0	75.1	53,020				32.0	75.4	48,320				34.0	75.6	44,330			
32.0	73.9	48,450	44,500			34.0	74.3	44,440	40,600			36.0	74.7	40,980	37,600		
34.0	72.7	44,550	41,100			36.0	73.2	41,090	37,800			38.0	73.7	38,050	35,100		
36.0	71.5	41,200	38,200	35,700		38.0	72.1	38,160	35,300		4	40.0	72.7	35,470	33,000	26 200	
38.0 40.0	70.3 69.0	38,290 35,730	35,600 33,500	33,700 31,600		40.0 45.0	71.0 68.2	35,600 30,350	33,200 28,500			45.0 50.0	70.1 67.6	30,220 26,210	28,300 24,600	26,200 23,100	
45.0	65.9	30,480	28,900	27,300	25,800	50.0	65.4	26,340	24,900	23,500	22,100	55.0	65.0	23,010	21,600	20,500	19,400
50.0	62.7	26,470	25,100	24,000	22,800	55.0	62.5	23,170	21,900	20,800	19,900	60.0	62.3	20,450	19,300	18,300	17,400
55.0	59.5	23,320	22,200	21,200	20,200	60.0	59.5	20,610	19,600	18,700	17,800	65.0	59.5	18,320	17,400	16,500	15,700
60.0 65.0	56.1 52.5	20,740 18,620	19,800 17,800	19,100 17,200	18,200 16,500	65.0 70.0	56.4 53.2	18,490 16,710	17,700 16,000	16,900 15,300	16,100 14,800	70.0 75.0	56.7 53.8	16,530 15,010	15,700 14,300	14,900 13,700	14,400 13,200
70.0	48.8	16,860	16,200	15,600	15,000	75.0	49.9	15,210	14,500	13,900	13,500	80.0	50.8	13,710	13,000	12,700	12,100
75.0	44.8	15,360	14,800	14,300	13,900	80.0	46.4	13,910	13,300	12,900	12,500	85.0	47.6	12,580	12,000	11,600	11,200
80.0	40.6	14,080	13,600	13,100	12,900	85.0	42.6	12,800	12,300	11,900	11,600	90.0	44.3	11,590	11,100	10,700	10,400
85.0	35.9	12,980	12,600	12,200	12,000	90.0	38.6	11,830	11,400	11,000	10,800	95.0	40.7	10,730	10,300	9,900	9,600
						95.0	34.2	10,970	10,600	10,300	10,100	100.0 105.0	36.9 32.7	9,960 9,280	9,500	9,300 8,700	8,900 8,500
									M			105.0	32.7	7,200		0,700	0,500
						M											
Pos	eves	6	4	4	2	Dos	eves	6	4	2	2	Doc	eves	5	4	2	2
nee			-	4	4	litee	-ve2	0	-			nee	eves	ر	4		
	130	N' Rooi	m				1//	N' Roo	m		-		150) Rooi	m		
	130)' Booi		d Load (lk	ns)		140)' Boo		LLoad (lk	ns)		150)' Booi		l Load (lh	ns)
Load	13C	30	50° Rated	d Load (lk		Load		3	60° Rateo			Load		30	60° Rateo		
Load Radius (ft)				d Load (Ik	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)			2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)			Load (Ib 2 Degree Machine List	2 Degree Machine List
Radius	Boom Angle	0 Degree Machine	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Boom Angle	0 Degree Machine	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Boom Angle	0 Degree Machine	60° Rateo	2 Degree Machine	2 Degree Machine
Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.3 80.4	0 Degree Machine List 71,200 * 64,610	60° Rateo	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.9 81.1	0 Degree Machine List 61,720 * 60,840	60° Rateo	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0	Boom Angle (deg.) 81.7 80.9	0 Degree Machine List 52,680 * 51,800 *	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0	Boom Angle (deg.) 81.3 80.4 79.5	0 Degree Machine List 71,200 * 64,610 58,020	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0	Boom Angle (deg.) 81.9 81.1 80.2	0 Degree Machine List 61,720 * 60,840 57,980	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0	Boom Angle (deg.) 81.7 80.9 80.1	0 Degree Machine List 52,680 * 51,800 * 51,140 *	60° Rateo	2 Degree Machine	2 Degree Machine
Radius (ft) 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.1 80.2 79.4	0 Degree Machine List 61,720 * 60,840 57,980 52,530	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0	Boom Angle (deg.) 81.3 80.4 79.5	0 Degree Machine List 71,200 * 64,610 58,020	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0	Boom Angle (deg.) 81.9 81.1 80.2	0 Degree Machine List 61,720 * 60,840 57,980	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6	0 Degree Machine List 52,680 * 51,800 * 51,140 *	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.9 81.1 80.2 79.4 78.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 44,040 40,670	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	800m Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0	30 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740	1 Degree Machine List	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	800m Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0	30 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250	1 Degree Machine List 34,600 32,500	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	80.2 79.4 78.6 77.7 76.9 76.0 75.2	30 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760	60° Ratec 1 Degree Machine List	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	800m Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0	30 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740	1 Degree Machine List	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	800m Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000	1 Degree Machine List 34,600 32,500 27,800	2 Degree Machine List	2 Degree Machine	24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	80.2 79.4 78.6 77.7 76.9 75.2 73.1	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910	1 Degree Machine List	2 Degree Machine List	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720	1 Degree Machine List	2 Degree Machine List	2 Degree Machine
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 67.0 64.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210	34,600 32,500 27,800 24,200 19,000	22,600 20,100 17,900	2 Degree Machine List	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 35,160 29,910 25,880 22,680 20,100	1 Degree Machine List 2 4,100 21,200 18,800	2 Degree Machine List 22,300 19,700 17,700	2 Degree Machine List	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 72.2 70.2 68.2 66.1	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810	1 Degree Machine List 23,700 20,900 18,600 16,600	2 Degree Machine List 19,200 17,400 15,600	2 Degree Machine List
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 60.0 65.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1	0 Degree Machine 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070	34,600 32,500 27,800 24,200 19,000 17,100	22,600 20,100 17,900 16,100	2 Degree Machine List 16,800 15,400	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960	1 Degree Machine List 2 4,100 21,200 18,800 16,800	22,300 19,700 15,800	2 Degree Machine List 15,700 14,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0 70.0	81.7 80.9 80.1 79.3 78.6 77.0 76.2 74.2 70.2 68.2 66.1 64.0	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000	2 Degree Machine List 19,200 17,400 15,600 14,100	2 Degree Machine List 13,700 13,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290	34,600 32,500 27,800 21,300 19,000 17,100 15,400	22,600 20,100 17,900 16,100 14,600	2 Degree Machine List 16,800 15,400 14,000	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150	2 4,100 21,200 18,800 16,800 15,100	22,300 19,700 15,800 14,400	2 Degree Machine List 15,700 14,900 13,600	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0 70.0 75.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480	23,700 20,900 18,600 16,600 13,700	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800	2 Degree Machine List 13,700 13,100 12,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1	0 Degree Machine 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070	34,600 32,500 27,800 24,200 19,000 17,100	22,600 20,100 17,900 16,100	2 Degree Machine List 16,800 15,400	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960	1 Degree Machine List 2 4,100 21,200 18,800 16,800	22,300 19,700 15,800	2 Degree Machine List 15,700 14,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0 70.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000	2 Degree Machine List 19,200 17,400 15,600 14,100	2 Degree Machine List 13,700 13,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 66.6 62.1 59.6 57.0 54.3 51.5	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 22,790 20,210 18,070 16,290 14,770 13,470 12,320	34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000	22,600 20,100 17,900 16,100 14,600 13,200	16,800 15,400 14,000 12,800 11,700 10,700	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 77.0 80.0 85.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 66.5 64.3 62.0 59.6 57.2 54.7	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 22,680 20,100 17,960 16,150 14,630 13,310 12,160	2 4,100 21,200 18,800 16,800 15,100 13,700 12,500 11,500	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 65.0 60.0 65.0 77.0 80.0 85.0 90.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 74.2 66.1 64.0 61.8 59.6 57.4 55.1	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 119,950 117,810 16,000 14,480 13,160 12,010 11,000	23,700 20,900 18,600 15,000 13,700 12,300 11,300 10,400	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Room Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 20,210 18,070 16,290 14,770 13,470 12,320 11,330	34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000 12,800 11,700 10,700	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400	16,800 15,400 14,000 12,800 11,700 10,700 10,000	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 65.0 70.0 75.0 80.0 85.0 90.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.3 62.0 59.6 57.2 54.7 52.2	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 11,960 16,150 14,630 13,310 12,160 11,170	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 117,810 16,000 14,480 13,160 12,010 11,000 10,110	23,700 20,900 18,600 15,000 13,700 12,300 11,300 10,400 9,500	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 69.4 662.1 59.6 57.0 54.3 51.5 48.6 45.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 22,790 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440	34,600 32,500 27,800 24,200 11,700 14,000 12,800 11,700 10,700 9,900	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 66.5 66.3 62.0 59.6 57.2 54.7 52.2 49.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 12,680 22,680 20,100 11,960 16,150 14,630 13,310 12,160 11,170 10,290	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 9,400	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 95.0 100.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 117,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320	23,700 20,900 18,600 16,600 11,700 12,300 11,300 10,400 9,500 8,700	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670	34,600 32,500 27,800 24,200 19,000 11,700 12,800 11,700 10,700 9,900 9,200	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 95.0 100.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.3 62.0 59.6 57.2 54.7 52.2 49.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 12,680 22,680 22,680 11,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500	2 4,100 21,200 18,800 15,100 12,500 11,500 10,600 9,800 9,000	22,300 19,700 17,700 15,800 14,400 13,100 11,000 10,100 9,400 8,700	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,300	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 65.0 77.0 80.0 85.0 99.0 95.0 100.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 66.1 66.1 59.6 57.4 55.1 52.7 50.3 47.7	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640	23,700 20,900 18,600 16,600 13,700 12,300 11,300 10,400 9,500 8,700 8,100	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 69.4 662.1 59.6 57.0 54.3 51.5 48.6 45.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 22,790 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440	34,600 32,500 27,800 24,200 11,700 14,000 12,800 11,700 10,700 9,900	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 66.5 66.3 62.0 59.6 57.2 54.7 52.2 49.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 12,680 22,680 20,100 11,960 16,150 14,630 13,310 12,160 11,170 10,290	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 9,400	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 95.0 100.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2 68.2 66.1 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 117,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320	23,700 20,900 18,600 16,600 11,700 12,300 11,300 10,400 9,500 8,700	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 995.0 100.0 105.0 115.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6 59.6 57.2 49.5 40.8 37.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170 7,620	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 14,400 13,100 11,000 10,100 9,400 8,700 8,100 7,500 7,000	15,700 14,900 13,600 12,400 10,600 9,700 8,900 8,300 7,700 7,200 6,800	Radius (ft) 26.0 28.0 30.0 33.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 105.0 110.0 115.0 120.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 11,000 10,110 9,320 8,640 8,000 7,420 6,920	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100 6,600	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 105.0 110.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 66.5 57.2 54.7 52.2 49.5 40.8	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 11,960 116,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700	22,300 19,700 17,700 15,800 14,400 13,100 11,000 11,000 9,400 8,700 8,100 7,500	15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,300 7,700 7,200	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,100 9,320 8,640 8,000 7,420 6,920 6,450	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300 5,800	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100 5,700
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 995.0 100.0 105.0 115.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6 59.6 57.2 49.5 40.8 37.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170 7,620	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 14,400 13,100 11,000 10,100 9,400 8,700 8,100 7,500 7,000	15,700 14,900 13,600 12,400 10,600 9,700 8,900 8,300 7,700 7,200 6,800	Radius (ft) 26.0 28.0 30.0 33.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 105.0 110.0 115.0 120.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 11,000 10,110 9,320 8,640 8,000 7,420 6,920	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100 6,600	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 995.0 100.0 105.0 115.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6 59.6 57.2 49.5 40.8 37.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170 7,620	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 14,400 13,100 11,000 10,100 9,400 8,700 8,100 7,500 7,000	15,700 14,900 13,600 12,400 10,600 9,700 8,900 8,300 7,700 7,200 6,800	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,100 9,320 8,640 8,000 7,420 6,920 6,450	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100 6,600	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300 5,800	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100 5,700

Barge

5 Counterweights (57,600 lbs) - 2 Carbody weights (14,400 lbs) - Crawlers in extended position.

	160)' Boor	n				170)' Boo	m				180)' Boo	m		
			0° Rated	Load (lb	os)		.,			d Load (lb	ıs)				60° Rated	d Load (II	os)
Load		0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List
28.0	81.5	44,090 *				28.0	82.0	38,800 *				30.0	81.8	33,730 *			
30.0 32.0	80.7 80.0	43,430 * 42,760 *				30.0 32.0	81.3 80.6	38,130 * 37,470 *				32.0 34.0	81.1 80.5	33,060 * 32,620 *			
34.0	79.3	42,100 *				34.0	79.9	37,030 *				36.0	79.8	31,960 *			
36.0	78.6	40,520				36.0	79.2	36,370*				38.0	79.2	31,520*			
38.0	77.8	37,560				38.0	78.6	35,710*				40.0	78.5	31,080 *			
40.0 45.0	77.1 75.2	34,980 29,710				40.0 45.0	77.9 76.1	34,780 29,510				45.0 50.0	76.9 75.3	29,250 25,220			
50.0	73.4	25,680				50.0	74.4	25,460				55.0	73.6	22,000			
55.0	71.5	22,480	20,800			55.0	72.6	22,260	20,500			60.0	72.0	19,400	17,800		
60.0 65.0	69.6 67.7	19,880 17,720	18,400 16,400	17,100 15,400		60.0 65.0	70.8 69.1	19,660 17,520	18,100 16,100	15,700 15,000		65.0 70.0	70.3 68.6	17,260 15,450	15,900 14,300	13,700 13,100	
70.0	65.7	15,930	14,800	14,000	12,000	70.0	67.2	15,710	14,500	13,700		75.0	66.8	13,910	12,800	11,900	9,300
75.0	63.7	14,390	13,400	12,700	11,600	75.0	65.4	14,170	13,100	12,400	10,400	80.0	65.1	12,560	11,700	10,800	9,000
80.0	61.7	13,070	12,200	11,500	10,900	80.0	63.5	12,850	11,900	11,200	10,200	85.0	63.3	11,410	10,600	10,000	8,800
85.0 90.0	59.7 57.6	11,920 10,910	11,100 10,100	10,500 9,700	9,900	85.0 90.0	61.6 59.7	11,680 10,670	10,800 9,900	10,300	9,600 8,900	90.0	61.5 59.7	10,400 9,500	9,600 8,800	9,100 8,300	8,500 7,800
95.0	55.4	10,910	9,300	8,800	9,200 8,500	95.0	57.7	9,780	9,900	9,400 8,600	8,200	100.0	57.8	8,700	8,100	7,600	7,800
100.0	53.2	9,210	8,700	8,200	7,900	100.0	55.7	8,990	8,400	7,900	7,600	105.0	55.9	8,000	7,300	7,000	6,600
105.0	50.9	8,500	8,000	7,500	7,200	105.0	53.6	8,260	7,800	7,200	6,900	110.0	54.0	7,340	6,800	6,400	6,100
110.0 115.0	48.6 46.1	7,870 7,290	7,400 6,800	7,100 6,500	6,700 6,300	110.0 115.0	51.5 49.3	7,620 7,050	7,100 6,600	6,800 6,200	6,400 6,000	115.0 120.0	52.0 49.9	6,760 6,230	6,200 5,700	5,900 5,500	5,600 5,100
120.0	43.6	6,760	6,400	6,000	5,800	120.0	47.0	6,520	6,100	5,700	5,600	125.0	47.8	5,700	5,300	4,800	4,600
125.0	40.9	6,280	6,000	5,600	5,400	125.0	44.7	6,040	5,600	5,300	5,100	130.0	45.6	5,220	4,800	4,600	4,200
130.0	38.1	5,860	5,500	5,300	5,000	130.0	42.2	5,570	5,200	4,900	4,700	135.0	43.3	4,780	4,400	4,200	3,900
135.0 140.0	35.0 31.8	5,440 5,070	5,100	5,000 4,500	4,600 4,400	135.0 140.0	39.6 36.9	5,150 4,760	4,800 4,400	4,500 4,200	4,300 3,900	140.0 145.0	40.9 38.4	4,380 4,030	4,000 3,600	3,800 3,500	3,600 3,200
140.0	31.0	3,070		4,500	1,100	145.0	34.0	4,380	4,100	3,800	3,700	150.0	35.8	3,680	3,400	3,200	3,000
					4	150.0	30.8	4,050			3,500	155.0	33.0	3,370	3,100	2,900	2,800
Ree	eves	4	2	2	2	Ree	eves	4	2	2	2	Ree	eves	2	2	2	2
	190)' Booi	n				200)' Boo	m								
											_						
			60° Rated						60° Rate	d Load (lb					60° Rated		
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List		d Load (lb 2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
Radius (ft) 32.0	Angle (deg.) 81.6	O Degree Machine List 29,540 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0	Boom Angle (deg.) 81.4	0 Degree Machine List 25,790 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0	Angle (deg.)	0 Degree Machine List 29,540 * 28,880 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0	Boom Angle (deg.) 81.4 80.9	0 Degree Machine List 25,790 * 25,350 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0	Angle (deg.) 81.6 81.0	O Degree Machine List 29,540 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0	Boom Angle (deg.) 81.4	0 Degree Machine List 25,790 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
32.0 34.0 36.0 38.0 40.0	81.6 81.0 80.4 79.8 79.2	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0	81.6 81.0 80.4 79.8 79.2 77.6	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
32.0 34.0 36.0 38.0 40.0	81.6 81.0 80.4 79.8 79.2	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9	0 Degree Machine List 29,540 * 28,880 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510	1 Degree Machine List	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150	60° Rateo	2 Degree Machine List	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0	81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350	1 Degree Machine List 16,800 15,600	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0	80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320	1 Degree Machine List	2 Degree Machine List	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0	81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7	O Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540	16,800 15,600 14,200	2 Degree Machine List	2 Degree Machine List	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0	80.3 79.7 78.2 76.8 75.3 73.8 70.8 69.3	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770	10-gree Machine List 14,100 13,200 12,400	2 Degree Machine List 10,200 9,600	2 Degree Machine List	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0	81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350	1 Degree Machine List 16,800 15,600	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0	80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320	1 Degree Machine List	2 Degree Machine List	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 60.0 65.0 70.0 80.0 85.0	81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,590 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500	16,800 15,600 14,200 12,800 11,600 10,700	2 Degree Machine List 11,700 11,100 10,600 9,900	2 Degree Machine List 8,100 7,900 7,700	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250	14,100 13,200 12,400 11,300 9,400	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100	2 Degree Machine List 6,800 6,600 6,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0	Angle (deg.) 81.6 81.0 80.4 79.8 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2	0 Degree Machine List 29,540 * 28,880 * 28,843 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470	16,800 15,600 14,200 12,800 11,600 10,700 9,600	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000	2 Degree Machine List 8,100 7,900 7,700 7,300	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 72.3 70.8 69.3 67.7 66.2 64.6 63.0	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340	14,100 13,200 12,400 11,300 10,400 9,400 8,600	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600	2 Degree Machine List 6,800 6,600 6,200 5,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4	0 Degree Machine List 29,540 * 28,880 * 28,843 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 12,650 11,500 10,470 9,560	16,800 15,600 14,200 12,800 10,700 9,600 8,800	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200	8,100 7,900 7,300 6,900	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0	Angle (deg.) 81.6 81.0 80.4 79.8 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2	0 Degree Machine List 29,540 * 28,880 * 28,843 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470	16,800 15,600 14,200 12,800 11,600 10,700 9,600	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000	2 Degree Machine List 8,100 7,900 7,700 7,300	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 72.3 70.8 69.3 67.7 66.2 64.6 63.0	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340	14,100 13,200 12,400 11,300 10,400 9,400 8,600	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600	2 Degree Machine List 6,800 6,600 6,200 5,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (t) 32.0 34.0 34.0 38.0 40.0 45.0 50.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 57.9 56.1	0 Degree Machine List 29,540 * 28,880 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900	2 Degree Machine List 11,700 11,100 10,600 9,900 9,900 8,200 7,600 7,000 6,500	8,100 7,900 7,700 7,300 6,600 6,300 5,800	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 77.0 80.0 85.0 90.0 90.0 100.0 115.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8 69.3 69.3 61.4 59.7 58.1 56.3	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560	14,100 13,200 12,400 11,300 10,400 9,400 7,900 7,300 6,600 6,000	2 Degree Machine List 10,200 9,600 9,100 8,600 7,100 6,600 6,000 5,600	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	Angle (deg.) 81.6 81.0 80.4 79.8 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3	0 Degree Machine List 29,540 * 28,880 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810	16,800 15,600 14,200 12,800 10,700 9,600 8,800 8,200 7,500 6,900 6,300	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,000 6,500 5,900	8,100 7,900 7,700 7,300 6,600 6,300 5,800 5,400	Radius (ft) 34.0 36.0 38.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 115.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 56.3 54.6	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970	14,100 13,200 12,400 11,300 10,400 9,400 8,600 6,600 6,000 5,400	2 Degree Machine List 10,200 9,600 9,100 8,600 7,100 6,600 6,000 5,600 5,000	6,800 6,600 6,200 5,900 5,100 4,900 4,500 4,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (t) 32.0 34.0 34.0 38.0 40.0 45.0 50.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 57.9 56.1	0 Degree Machine List 29,540 * 28,880 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900	2 Degree Machine List 11,700 11,100 10,600 9,900 9,900 8,200 7,600 7,000 6,500	8,100 7,900 7,700 7,300 6,600 6,300 5,800	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 77.0 80.0 85.0 90.0 90.0 100.0 115.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8 69.3 69.3 61.4 59.7 58.1 56.3	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560	14,100 13,200 12,400 11,300 10,400 9,400 7,900 7,300 6,600 6,000	2 Degree Machine List 10,200 9,600 9,100 8,600 7,100 6,600 6,000 5,600	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.00 34.00 38.00 45.00 55.00 65.00 65.00 75.00 85.00 95.00 105.00 1115.00 1125.00 125.00 130.00	Angle (deg.) 81.6 81.8 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 68.1 66.5 64.8 63.2 61.4 59.7 57.9 56.1 55.4 50.5 48.5	0 Degree Machine List 29,540 * 29,540 * 28,880 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260	16,800 15,600 14,200 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,800	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,600 7,600 6,500 5,900 5,400 5,000 4,600	8,100 7,900 7,700 7,300 6,900 6,300 5,800 5,000 4,600 4,200	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 110.0 125.0 125.0 135.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 54.6 52.8 51.0 49.1	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 6,600 6,000 5,400 5,000 4,600 4,100	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 6,000 6,000 5,600 4,500 4,100 3,700	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200 3,800 3,600 3,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 99.0 95.0 100.0 110.0 1120.0 125.0 135.0	Angle (deg.) 81.6 81.8 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 66.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3 50.5 48.5 46.4	0 Degree Machine List 29,540 * 28,880 * 28,843 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,800 4,400	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,600 7,000 6,500 5,900 5,400 5,000 4,600 4,200	8,100 7,900 7,700 7,300 6,900 6,300 5,800 5,400 4,600 4,200 3,800	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 130.0 135.0 140.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 55.3 54.6 52.8 51.0 49.1 47.2	0 Degree Machine List 25,790 ** 24,910 ** 24,470 ** 23,360 ** 22,480 ** 21,380 ** 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 6,5440 4,960 4,510 4,100	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 6,600 6,000 5,400 5,000 4,600 4,100 3,700	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600 5,000 4,500 4,100 3,700 3,400	6,800 6,600 6,200 5,900 5,500 4,200 4,500 4,200 3,600 3,600 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 99.0 95.0 100.0 115.0 115.0 125.0 130.0 135.0 140.0	Angle (deg.) 81.6 81.8 81.9 81.9 81.9 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 66.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3 50.5 48.5 48.4 44.3	0 Degree Machine List 29,540 * 28,880 * 28,843 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,400	16,800 15,600 14,200 12,800 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,800 4,400 3,900	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,000 6,500 5,900 5,400 5,000 4,600 4,200 3,700	8,100 7,900 7,700 7,300 6,900 6,600 6,300 5,400 5,000 4,600 4,200 3,800 3,500	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 105.0 115.0 125.0 135.0 135.0 145.0	Boom Angle (deg.) 81.4 80.9 80.3 77.82 76.8 75.3 73.8 72.3 70.8 69.3 67.7 58.1 56.3 54.6 52.8 55.8 55.0 49.1 47.2 45.2	0 Degree Machine List 25,790 * 24,910 * 24,910 * 24,470 * 23,360 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100 3,700	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,400 4,100 3,700 3,300	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,000 4,500 4,500 4,100 3,700 3,400 3,000	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200 3,800 3,600 3,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 99.0 95.0 100.0 110.0 1120.0 125.0 135.0	Angle (deg.) 81.6 81.8 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 66.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3 50.5 48.5 46.4	0 Degree Machine List 29,540 * 28,880 * 28,843 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,800 4,400	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,600 7,000 6,500 5,900 5,400 5,000 4,600 4,200	8,100 7,900 7,700 7,300 6,900 6,300 5,800 5,400 4,600 4,200 3,800	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 130.0 135.0 140.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 55.3 54.6 52.8 51.0 49.1 47.2	0 Degree Machine List 25,790 ** 24,910 ** 24,470 ** 23,360 ** 22,480 ** 21,380 ** 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 6,5440 4,960 4,510 4,100	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 6,600 6,000 5,400 5,000 4,600 4,100 3,700	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600 5,000 4,500 4,100 3,700 3,400	6,800 6,600 6,200 5,900 5,500 4,200 4,500 4,200 3,600 3,600 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 1305.0 145.0 145.0 155.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 50.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3 52.4 44.3 42.1 39.8 37.4	0 Degree Machine List 29,540 * 28,880 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,010 3,680 3,350	16,800 15,600 15,600 14,200 12,800 11,600 10,700 9,600 8,200 7,500 6,900 6,300 5,800 5,200 4,800 4,400 3,900 3,600 3,300 3,000	2 Degree Machine List 11,700 11,100 11,100 10,600 9,900 8,200 7,600 7,000 6,500 5,900 5,000 4,600 4,200 3,700 3,500 3,100 2,900	8,100 7,900 7,700 7,300 6,900 6,600 6,300 5,800 5,400 5,000 4,600 4,200 3,800 3,500 3,200	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 130.0 134.0 145.0 150.0	Boom Angle (deg.) 81.4 80.9 80.3 77.82 76.8 75.3 73.8 72.3 70.8 69.3 67.7 58.1 56.3 54.6 52.8 51.0 47.2 45.2 43.1	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100 3,700 3,350	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,000 4,000 5,000 4,100 3,700 3,300 2,900	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,000 4,500 4,500 4,100 3,700 3,400 3,000	6,800 6,600 6,200 5,900 5,500 4,200 4,500 4,200 3,600 3,600 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
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Refer to notes on page 31.

NOTES
147. %

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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Hydraulic Crawler Crane

GES50G

Max. Lifting Capacity: 85 US Tons Max. Crane Boom Length: 200 ft

Max. Fixed Jib Combination: 180 ft + 60 ft



CK850G CONTENTS

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General Description



Type Crawler mounted, Lattice boom, Hydraulic controlled Maximum lift capacity 170,000 lbs (77,110 kg) @ 10' 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
 180' + 60' (54.9 m + 18.3 m)

 Working weight
 Approx. 165,700 lbs (75,140 kg)

Ground bearing pressure Approx. 10.8 psi (84.7 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)	14'9" (4.50 m)
Counterweight ground clearance	3'7" (1.10 m)
Center of rotation to boom foot pin	3'7" (1.10 m)
Height from ground to boom foot pin	5'9" (1.75 m)
Height over gantry (raised)	20'3" (6.17 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)

 $230 \sim 6.6$ ft/min (70 ~ 2 m/min)

Boom lowering line speed (front and rear drums)

 $230 \sim 6.6 \text{ ft/min} (70 \sim 2 \text{ m/min})$

Swing speed (max.) 4.0 rpm

Travel speed (high/low) 1.1/0.72 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 4-13/32" x 5-1/8"

(112 mm x 130 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&#}x27;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 20,600 (9,320 kg)

 Counterweight (R)
 2 x 9,250 (4,200 kg)

 Counterweight (L)
 2 x 9,250 (4,200 kg)

 Total Counterweight
 57,600 (26,120 kg)

Carbody weight 2 x 7,200 (3,250 kg) Total Carbody weight 14,400 (6,500 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 \(\ell \)/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 \(\ell \)min + 40.5 \(\ell \)min)

Brake cooling system

2 gear pumps, max flow rate 19.4 US gal/min x 2 (73.5 \(\ell / \text{min x 2} \))

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) - 34,400 lbf (153 kN) *Rated line pull* - 17,000 lbf (78.5 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 -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 869' (265 m) working length and 1,099' (335 m) storage length.

Rear drum -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 673' (205 m) working length and 1,099' (335 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.

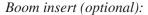


Crane Attachments

Boom:

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

Maximum boom length200' (61.0 m)Basic boom length40' (12.2 m)Boom base section19'7" (5.97 m)Boom tip section22'8" (6.91 m)



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 length60' (18.3 m)Basic jib length30' (9.1 m)Jib base section15'9" (4.8 m)Jib tip section16'1" (4.9 m)

Jib insert 10' (3.1 m), 20' (6.1 m)

Jib is useable on booms of 80' (24.4 m) through 180' (54.9 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

G-Mode

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

Auto Idling Stop Mode (AIS):

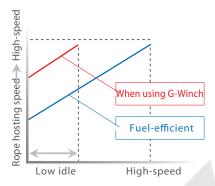
An Industry First

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

G-Winch Mode:

An Industry First

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



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

G-Engine Mode:

An Industry First

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











G-Engine

G-Winch

AIS



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.

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.

Remote control connection

Oil cooler operation

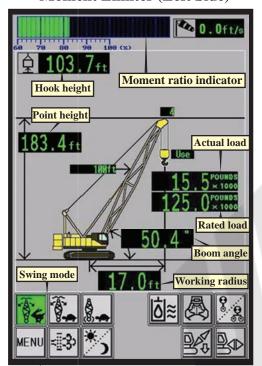
Free fall (auxiliary)

Free fall (3rd)

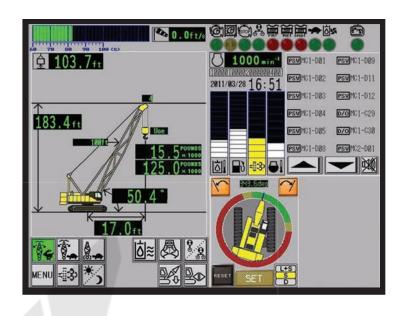
Load Moment Indicator (LMI)

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)

1000 min PSV MC1-D01 PSV MC1-D09 PSV MC1-D02 PSVMC1-D11 2011/03/28 16:51 PSV MC1-D03 PSVMC1-D12 PSV MC1-D04 D/O MC1-C29 D/OMC1-030 PSV MC1-D05 PSV MC1-D08 PSV MC2-D01

Display Lamp Display lamp G-Engine G-Winch AIS operation

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.

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 = 22 mm

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

Maximum Line Pull = 34,400 lbf (153 kN)

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

Line speed (ft/min)

	Layer	1	2	3	4	5	6
	0	394	420	446	472	499	
	5,000	394	420	446	472	499	
	10,000	394	420	438	434	437	
Line Pull	15,000	296	292	287	279	269	storage
(lbs)	17,000	265	246	235	221	216	only
	20,000	195	183	184	183	181	
	25,000	145	142	137	131	123	
	32,000	95		4			
Storage Ca	pacity (ft)	130	139	148	157	166	175

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)

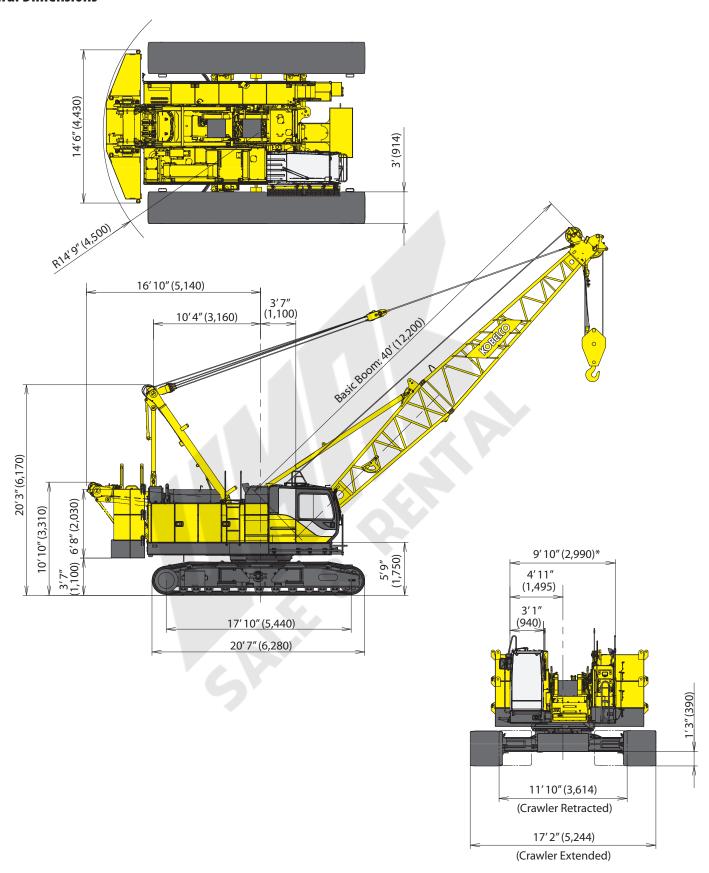
Line speed (ft/min)

	Layer	1	2	3	4	5	6
	0	394	394	394	394	394	
	5,000	394	394	394	394	394	
Line Pull	10,000	227	227	227	227	227	
(lbs)	15,000	147	152	161	170	179	storage
	17,000	142	151	160	169	178	only
	20,000	140	149	158	167	176	
	25,000	138	147	155	163	164	
	30,000	136	135				
Storage Cap	acity (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	0.888" to 0.905" (22.55 mm to 22.99 mm)	869' (265 m)	3.5: 1	81,606 lbf (363 kN)
Rear drum	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	672' (205 m)	3.5: 1	81,606 lbf (363 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)	492' (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)	476' (145 m)	3.5: 1	81,606 lbf (363 kN)

General Dimensions



^{* - 10&#}x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

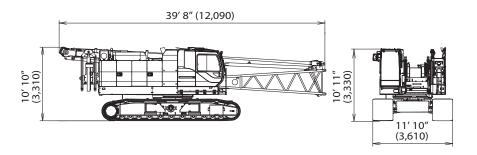
Dimensions and Weight

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

Base Machine - 1

Weight: 91,700 lbs (41,580 kg)

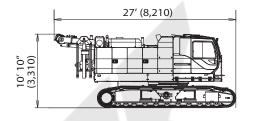
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

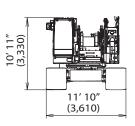


Base Machine - 2

Weight: 87,500 lbs (39,660 kg)

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



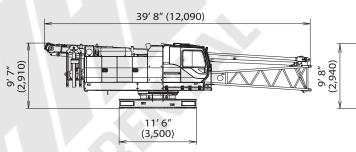


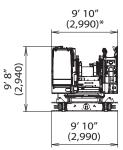
Base Machine - 3

Weight: 58,000 lbs (26,330 kg)

Gantry, crawlers, and

wire ropes (front, rear, and boom hoist)

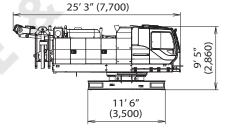


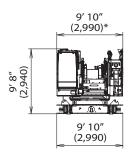


Base Machine - 4

Weight: 53,800 lbs (24,380 kg)

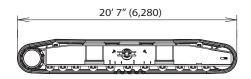
Boom base, gantry, self removal unit, and wire ropes (front, rear, and boom hoist)

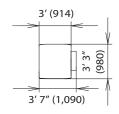




Crawler

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





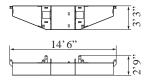
^{* - 10&#}x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

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

Dimensions and Weight

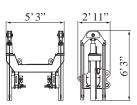
Counterweight Base

Weight: 20,600 lbs (9,320 kg)



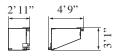
Self Removal Unit

Weight: 1,900 lbs (860 kg)



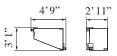
Counterweight (R)

Weight: 9,250 lbs (4,200 kg)



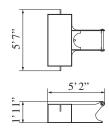
Counterweight (L)

Weight: 9,250 lbs (4,200 kg)



Carbody Weight

Weight: 7,200 lbs (3,250 kg)



Auxiliary Sheave

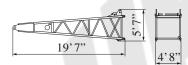
Weight: 320 lbs (145 kg)





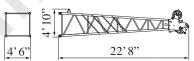
Boom Base

Weight: 3,000 lbs (1,379 kg)



Boom Tip

Weight: 2,500 lbs (1,126 kg) Includes cable roller and guy lines



10 ft (3.0 m) Insert Boom

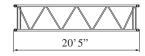
Weight: 760 lbs (345 kg) Includes cable roller and guy lines





20 ft (6.1 m) Insert Boom

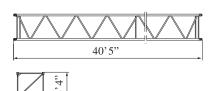
Weight: 1,300 lbs (566 kg) Includes cable roller and guy lines





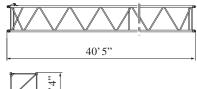
40 ft (12.2 m) Insert Boom

Weight: 2,200 lbs (1,009 kg) Includes cable roller and guy lines



40 ft (12.2 m) Insert Boom (with lug)Weight: 2,300 lbs (1,024 kg)

Includes cable roller and guy lines





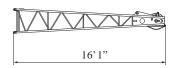
Dimensions and Weight

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

Jib Tip

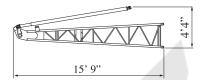
Weight: 500 lbs (228 kg) Includes cable roller.





Jib Base and Strut

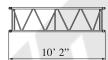
Weight: 1,100 lbs (485 kg) Includes guy line.





10 ft (3.0 m) Insert Jib

Weight: 270 lbs (121 kg) Includes cable roller and guy line.



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20 ft (6.1 m) Jib Insert

Weight: 460 lbs (209 kg) Includes cable roller and guy line.





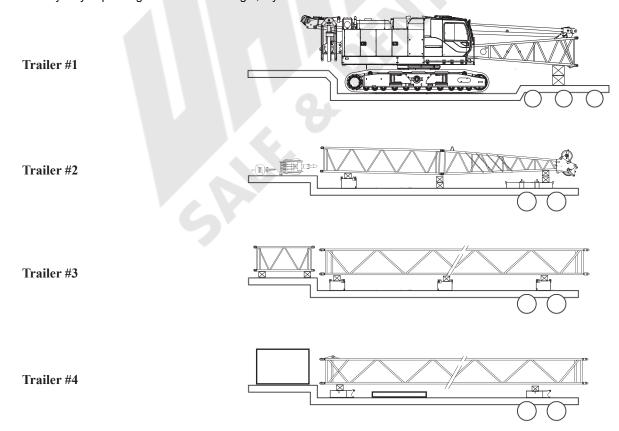
Transportation PlanRefer to pages 10-12

Shipping plan for 150 ft Boom

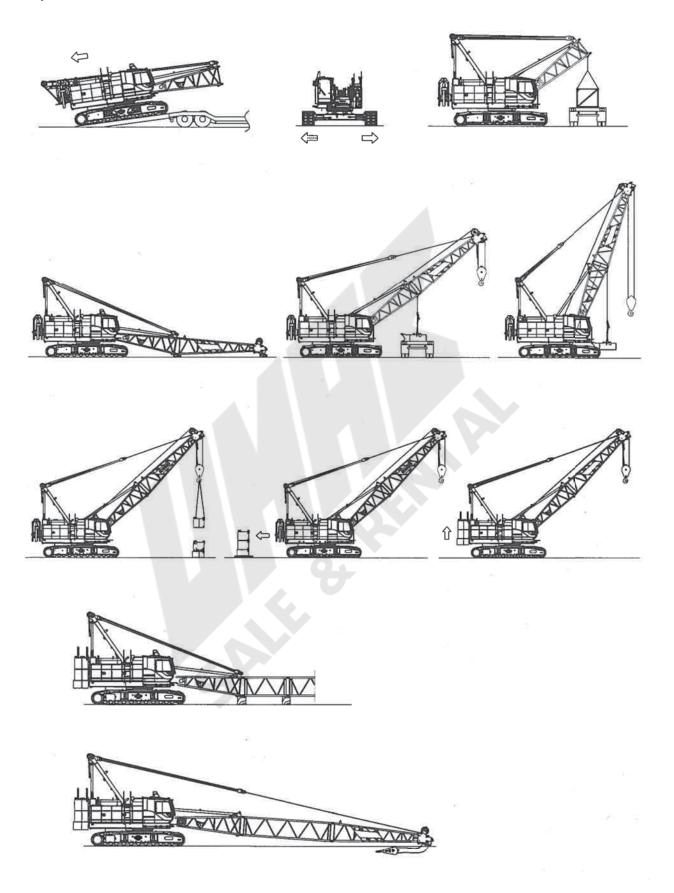
Description of them	Wei	ight		Trailer I	Loads	
Description of Item	lbs	(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	91,700	(41,580)	1			
Counterweight Base	20,600	(9,320)		1		
Counterweight (L)	9,250	(4,200)			2	
Counterweight ('R)	9,250	(4,200)		1	1	
Carbody Weight	7,200	(3,250)				2
10 ft Insert Boom and Guy Line	760	(345)			1	
20 ft Insert Boom and Guy Line	1,300	(566)		1		
40 ft Insert Boom and Guy Line	2,200	(1,009)			1	
40 ft Insert Boom (w/ Lug) and Guy Line (A)	2,300	(1,024)				1
Boom Tip and Guy Line	2,500	(1,126)		1		
Jib Base and Guy Line	1,100	(485)				
10 ft Insert Jib and Guy Line	270	(121)				
20 ft Insert Jib and Guy Line	460	(209)				
Jib Tip	500	(228)				
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 Chinain	a Woight	lbs	91,700	37,450	30,710	21,790
Approx. Total Shippin	yveigiit	(kg)	(41,580)	(16,938)	(13,954)	(9,833)

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

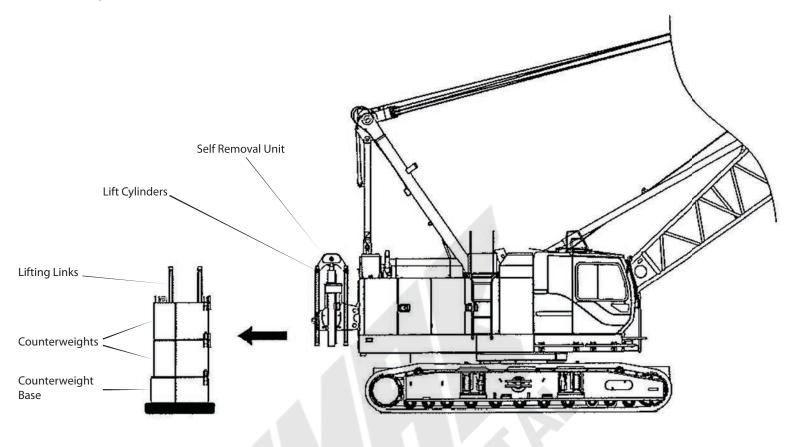
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck. This may vary depending on truck/trailer weight, style of trailer and state law.

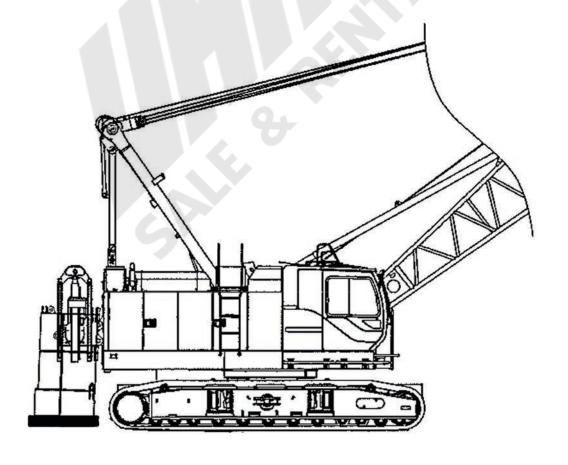


Self-Assembly Procedure



Counterweight Self-Removal Device



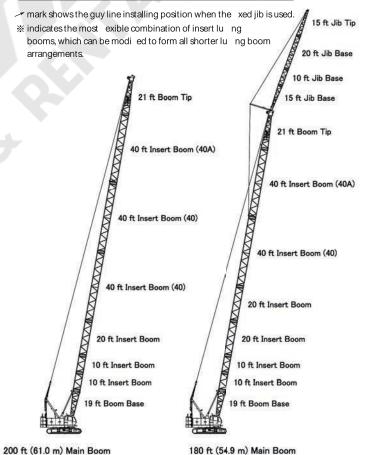


Boom and Fixed Jib Arrangement

Boom length ft (m)	Boom arrangement
40 (12.2)	©BT >>>
50 (15.2)	S 10 T
60 (18.3)	* B 10 10 T > B 20 T >
70 (21.3)	※ ■10 20 丁
80 (24.4)	* 10 10 20 1 1 1 20 1 1 1 1 1 1 1 1 1 1 1
90 (27.4)	
100 (30.5)	*
110 (33.5)	※ □ 10 20 40A IT
120 (36.6)	
130 (39.6)	* B 10 20 20 40A T
140 (42.7)	★ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □

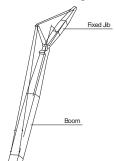
Boom length ft (m)	Boom arrangement
150 (45.7)	★ ■ 10 20 40 40A T
160 (48.8)	** B 10 10 20 40 40A T
170 (51.8)	※ ■ 10 20 20 40 40A T ■ 10 40 40 40A T
180 (54.9)	Image: square property of the
190 (57.9)	※ ■ 10 20 40 40 40 1 40 T
200 (61.0)	

Symbol	Boom Length	Remarks
В	20.0 ft (6.1 m)	Boom Base
	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



and 60 ft (18.3 m) Fixed Jib

Fixed Jib Arrangement

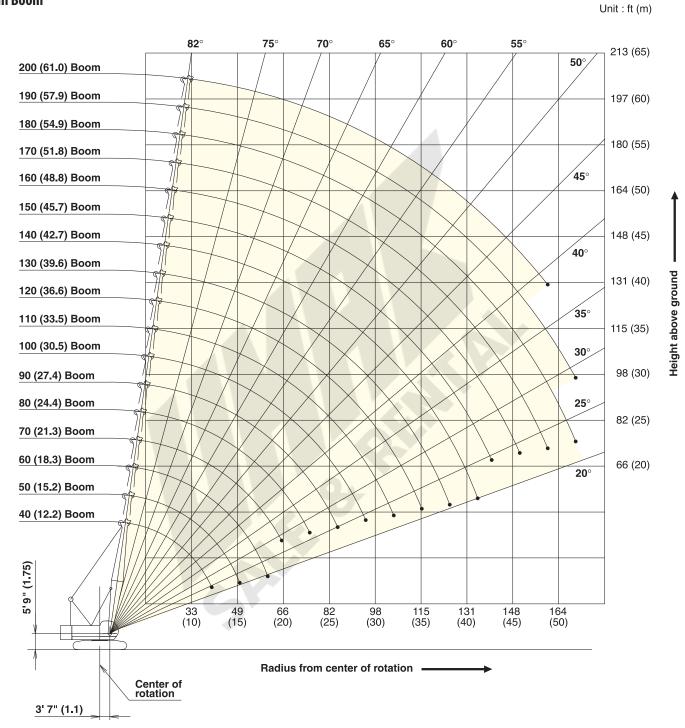


Crane boom length	Jib length ft (m)	Jib arrangement
	30 (9.1)	□B T
80 ft (24.4 m)	40 (12.2)	B 10 T
180 ft (54.9 m)	50 (15.2)	■ 20 T
	60 (18.3)	B 20 10 T

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

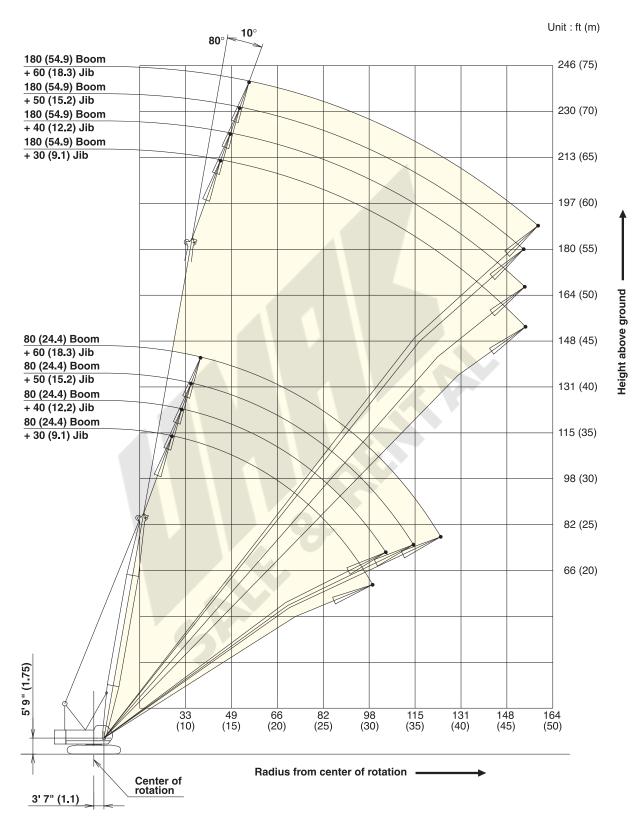
Working Ranges

Main Boom



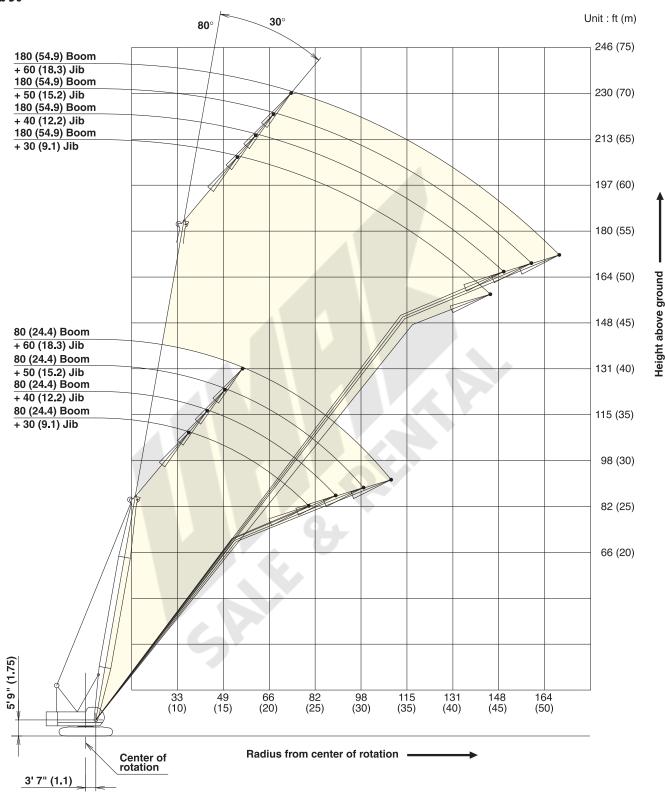
Working Ranges





Working Ranges

Fixed Jib 30°



Supplemental Data

- 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).
- 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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.
- 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)	320	2,400	3,200	4,200	5,200

- 8. The total load that can be lifted by jib is limited by rated jib loads.
- 9. Boom lengths for jib mounting are 80 ft (24.4 m) to 180 ft (54.9 m)
- 10. The total load that can be lifted by the auxiliary sheave is the value for 320 lbs deducted from rated load for the boom (without auxiliary sheave installed); however, the auxiliary sheave rated load should not exceed 17,000 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 180 ft (54.9 m) with jib, the blocks for erections must be placed at the end of the crawlers.
- 13. Least stable position is over the side.
- 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)	17,000	34,000	51,000	68,000	85,000
No. of Doute of the o	^	7		_	40

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

Maximum Load for Fixed Jib

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

Maximum Load Auxiliary Sheave

maximam Loud / taxiii	ui y Ollout
No. of Parts of line	1
Maximum Loads (lbs)	17,000

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

Main Boom Lift Capacity

III DUU	Boom Lift Capacity Full Counterweight: 57,6						erweight: 57,60	0 lbs	Carbody	Weight: 14,400				
40	D' Boo	m	50	D' Boo	m	60)' Boo	m	70	O' Boo	m	80	D' Boo	m
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 (Ibs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
10.0 11.0	81.7 80.3	170,000 * 170,000 *	12.0 13.0	81.1 79.9	166,400 * 154,400 *	13.0 14.0	81.6 80.7	154,200 * 143,800 *	14.0 15.0	82.0 81.2	143,600 * 134,500 *	16.0 17.0	81.6 80.8	126,300 * 119,100 *
12.0	78.8	166,600 *	14.0	78.8	144,000 *	15.0	79.7	134,700 *	16.0	80.3	126,500 *	18.0	80.1	112,600 *
13.0	77.4	154,600 *	15.0	77.6	134,900 *	16.0	78.7	126,700 *	17.0	79.5	119,300 *	19.0	79.4	105,290
14.0	75.9	144,200 *	16.0	76.4	126,900 *	17.0	77.7	119,500 *	18.0	78.7	112,800 *	20.0	78.6	96,930
15.0	74.4	135,100 *	17.0	75.2	119,700 *	18.0	76.8	113,000 *	19.0	77.8	105,400	22.0	77.2	83,550
16.0	72.9	127,100 *	18.0	74.0	113,200 *	19.0	75.8	105,460	20.0	77.0	97,060	24.0 75.7 26.0 74.2		73,320
17.0 18.0	71.4 69.9	119,900 * 113,400 *	19.0 20.0	72.8 71.6	105,660 97,350	20.0 22.0	74.8 72.8	97,130 83,790	22.0 24.0	75.3 73.6	83,700 73,470	28.0	74.2	65,230 58,680
19.0	68.3	105,820	22.0	69.2	84,010	24.0	70.8	73,560	26.0	71.9	65,380	30.0	71.2	53,260
20.0	66.7	97,500	24.0	66.7	73,810	26.0	68.7	65,490	28.0	70.1	58,840	32.0	69.7	48,690
22.0	63.6	84,190	26.0	64.2	65,760	28.0	66.6	58,970	30.0	68.4	53,430	34.0	68.1	44,840
24.0	60.3	74,000	28.0	61.6	59,230	30.0	64.5	53,570	32.0	66.6	48,890	36.0	66.6	41,490
26.0	56.9	65,980	30.0	58.9	53,850	32.0	62.4	49,030	34.0	64.8	45,030	38.0	65.0	38,580
28.0	53.4	59,480	32.0	56.2	49,310	34.0	60.2	45,170	36.0	63.0	41,680	40.0	63.4	36,020
30.0	49.7	54,100	34.0	53.3	45,480	36.0	58.0	41,840	38.0	61.1	38,800	45.0	59.3	30,820
32.0 34.0	45.7 41.5	49,580	36.0 38.0	50.4 47.3	42,150	38.0 40.0	55.7 53.3	38,950	40.0 45.0	59.2 54.3	36,240	50.0 55.0	55.0 50.5	26,820
36.0	36.9	45,740 42,460	40.0	44.1	39,280 36,750	45.0	47.0	36,410 31,230	50.0	49.0	31,040 27,070	60.0	45.6	23,670 21,140
38.0	31.6	39,590	45.0	34.9	31,590	50.0	40.0	27,290	55.0	43.3	23,960	65.0	40.3	19,060
40.0	25.5	34,830 *	50.0	22.7	26,890 *	55.0	31.7	24,200	60.0	36.9	21,450	70.0	34.4	17,350
		.,				60.0	20.6	21,600 *	65.0	29.3	19,420	75.0	27.3	15,890
Ree	ves	10	Ree	ves	10	Ree	ves	10	Reeves		9	Ree	ves	8
QΩ								. •	120' Bc		-			
	o' Boo	m	10	0' Boo			0' Boo				om		0' Boo	
Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	11 Load Radius	0' Boom Boom Angle	360° Rated Load	Load Radius	O' Boom Boom Angle	360° Rated Load	13 Load Radius	O' Boom Boom Angle	360° Rated Load
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)
Load Radius (ft)	Boom Angle (deg.) 81.9	360° Rated Load	Load Radius (ft)	Boom Angle (deg.) 81.5	360° Rated Load (lbs) 101,850 *	Load Radius (ft)	O' Boom Angle (deg.) 81.8	360° Rated Load (lbs) 92,590 *	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 80,680 *	Load Radius (ft)	O' Boom Angle (deg.) 81.3	360° Rated Load (lbs) 71,200 *
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 118,820 *	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)
Load Radius (ft) 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870	Load Radius (ft) 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120	Load Radius (ft) 20.0 22.0 24.0 26.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900	Load Radius (ft) 22.0 24.0 26.0 28.0	81.5 80.5 79.6 78.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240	Load Radius (ft) 24.0 26.0 28.0 30.0	81.3 80.4 79.5 78.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0	81.5 80.5 79.6 77.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0	81.3 80.4 79.5 78.6 77.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440	11 Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550	11 Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 76.5 74.3 73.2 72.1 71.0	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 74.7 73.7 72.7 70.1	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	0' Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 67.0 64.6 62.1 59.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	800m Angle (deg.) 81.9 81.9 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 70.1 67.6 65.0 62.3 59.5 56.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0 70.0 75.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 67.0 64.6 62.1 59.6 57.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	800m Angle (deg.) 81.9 81.9 80.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.7 72.7 70.1 65.0 62.3 59.5 56.7 53.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 75.0 80.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 55.0 60.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	Load Radius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 77.0 80.0 85.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	800m Angle (deg.) 81.9 81.9 80.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0	800m Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.7 72.7 70.1 65.0 62.3 59.5 56.7 53.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 75.0 80.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 80.0 85.0 90.0	81.8 80.7 79.7 78.6 77.5 76.5 76.5 72.1 71.0 68.2 65.4 62.5 59.5 56.4 59.5 40.4 42.6 38.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 74.7 73.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3 40.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	80 Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 35.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 42.4 39.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	800m Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 105.0 110.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 61.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4 39.0 35.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 35.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 110.0	0' Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7 27.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280 8,680	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 61.6 62.1 59.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4 39.0 35.4 31.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 38.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	80 Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 105.0 110.0	0' Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 61.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4 39.0 35.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390

Main Boom Lift Capacity

ain Boom Lift Capacity 140' Boom 150' Boom									ı	Full Count	terweight: 57,60	0 lbs	Carbody	Weight: 14,400
14	0' Boo	om	15	0' Boo	om	16	0' Boo	om	17	'0' Boo	om	18	0' Boo	om
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (Ibs)	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 (Ibs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
24.0 26.0 28.0 30.0 34.0 36.0 45.0 55.0 65.0 70.0 85.0 90.0 105.0 110.0 120.0 125.0 135.0	81.9 81.1 80.2 79.4 78.6 77.7 76.0 75.2 73.1 70.9 66.5 64.3 62.0 59.6 57.2 54.7 52.2 46.8 43.9 40.8 37.5 34.0 30.1 20.5	61,720 * 60,840 * 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,790 8,790 8,790 8,7120 6,650 6,650 6,260 5,900	26.0 28.0 30.0 32.0 34.0 36.0 40.0 55.0 65.0 70.0 75.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0 130.0 140.0	81.7 80.9 80.1 79.3 78.6 77.8 77.2 70.2 74.2 72.2 66.1 64.0 61.8 59.6 57.4 55.1 50.3 47.7 45.1 42.3 39.4 36.2 32.8 29.1 24.8	52,680 * 51,800 * 51,140 * 43,890 40,540 37,610 35,030 29,760 25,720 22,7530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000 7,420 6,920 6,450 6,040 5,660 5,330	28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 65.0 75.0 80.0 95.0 105.0 115.0 115.0 125.0 135.0 145.0	81.5 80.7 80.0 79.3 78.6 77.8 77.5 69.6 65.7 63.7 65.7 65.7 55.4 55.4 55.2 48.6 40.9 38.1 35.0 31.8 24.0	44,090 * 43,430 * 42,760 * 42,100 * 40,520 37,560 34,980 25,680 22,480 19,880 17,720 15,930 14,390 13,070 11,920 10,910 10,000 9,210 8,500 7,870 7,290 6,780 6,280 5,860 5,440 5,070 4,710 4,380	28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 135.0 145.0 145.0 155.0	82.0 81.3 80.6 79.9 79.2 78.6 77.9 76.1 74.4 72.6 70.9 69.1 67.2 65.4 63.5 61.6 59.7 57.7 55.7 53.6 44.7 42.2 39.6 36.9 34.0 30.8 27.3 23.3	38,800 * 38,130 * 37,470 * 37,030 * 36,370 * 35,710 * 34,780 29,510 25,460 22,260 19,660 17,520 15,710 14,170 12,850 11,680 10,670 9,780 8,990 8,260 7,620 7,050 6,520 6,040 5,570 5,150 4,760 4,380 4,050 3,760 3,500	30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 125.0 135.0 140.0 155.0 155.0 160.0	81.8 81.1 80.5 79.2 78.5 76.3 72.0 70.3 68.6 65.1 63.5 59.7 57.9 54.0 49.9 47.8 45.6 43.3 40.9 43.8 35.8 33.0 29.5 22.6	33,730 * 33,060 * 32,620 * 31,960 * 31,520 * 31,080 * 29,250 25,220 22,000 19,400 17,260 15,450 13,910 12,560 11,410 10,400 9,500 8,700 8,700 8,700 6,760 6,230 5,700 5,220 4,780 4,380 4,030 3,680 3,370 3,100 2,840 2,620
	eves	4		eves	4	Ree	ves	4	Ree	eves	4	Ree	ves	2
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)									
32.0 34.0 36.0 38.0 40.0 45.0 55.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0 135.0 140.0 155.0	81.6 81.0 80.4 79.8 77.6 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.8 63.2 61.4 59.7 57.5 54.3 52.4 50.5 48.4 44.3 42.1 39.8 37.4	29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,400 4,010 3,680 3,350	34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 135.0 140.0 145.0 155.0 160.0	81.4 80.9 80.3 79.7 78.2 76.8 72.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 56.3 54.6 52.8 51.0 47.2 45.2 43.1 41.0 38.7	25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100 3,700 3,350 3,040 2,730		P 9							
160.0 165.0 170.0	34.8 32.0 29.1	3,040 2,770 2,510												

Fixed Jib Lift Capacity

Full Counterweight: 57,600 lbs Carbody Weight: 14,400

	80' B	oom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.))		Offset An	gle (deg.)			Offset Ar	gle (deg.)	i	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	30	Radius
(ft)	Boom Angle (deg.)	Rated Load (lbs)	(ft)														
30	79.3	24,000*															30
32	78.0	24,000*															32
34	77.0	24,000*			79.3	24,000*											34
36	75.9	24,000*			78.3	24,000*											36
38	74.9	24,000*	79.6	20,230*	77.4	24,000*			79.3	20,000*							38
40	73.8	24,000*	78.5	19,730*	76.4	24,000*			78.4	20,000*			79.8	18,000*			40
45	71.1	24,000*	75.7	18,600*	73.9	24,000*	79.7	15,360*	76.1	20,000*			77.7	17,940*			45
50	68.3	24,000*	72.8	17,610*	71.4	22,150*	77.1	14,480*	73.8	18,540*			75.6	16,330*			50
55	65.3	23,890	69.7	16,710*	68.7	20,280*	74.3	13,640*	71.3	16,950*	78.0	11,080*	73.3	14,900*			55
60	62.3	21,340	66.7	15,960*	66.1	18,800*	71.6	12,980*	68.9	15,690*	75.5	10,490*	71.2	13,750*	78.7	8,950*	60
65	59.3	19,200	63.6	15,290*	63.4	17,520*	68.8	12,360*	66.5	14,610*	73.0	9,980*	69.0	12,780*	76.4	8,480*	65
70	56.2	17,410	60.3	14,700*	60.6	16,400*	65.9	11,830*	64.0	13,660*	70.4	9,540*	66.7	11,900*	74.1	8,060*	70
75	52.8	15,780	56.7	14,150*	57.6	15,360*	62.7	11,350*	61.3	12,760*	67.6	9,100*	64.2	11,110*	71.5	7,670*	75
80	49.3	14,460	53.1	13,710*	54.6	14,520*	59.6	10,930*	58.7	12,030*	64.8	8,730*	61.9	10,440*	69.0	7,340*	80
85	45.7	13,330			51.5	13,470	56.3	10,560*	56.0	11,390*	62.0	8,420*	59.5	9,850*	66.5	7,030*	85
90	41.8	12,320			48.3	12,450	52.9	10,250*	53.2	10,800*	59.0	8,130*	57.0	9,320*	63.9	6,760*	90
95	37.2	11,370			44.6	11,500			50.0	10,250*	55.6	7,840*	54.2	8,810*	60.9	6,500*	95
100	32.4	10,600			40.8	10,710	41		46.9	9,780*	52.3	7,620*	51.5	8,390*	58.1	6,280*	100
105					36.7	10,000			43.6	9,360*			48.7	8,020*	55.0	6,100*	105
110									40.0	8,990*			45.7	7,670*	51.8	5,930*	110
115						4			35.8	8,640*			42.3	7,340*			115
120						Δ							38.8	7,050*			120
125					4								35.1	6,810*			125
Reeves	1 2	2		2		2		1		2		1	2	2		l	Reeves
	ON' R	00m															

	90' B	oom															
		30 f	t Jib				t Jib		N Y	50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)		7 4	Offset An	gle (deg.)	1		Offset Ar	gle (deg.)		Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
32	79.1	24,000*															32
34	78.1	24,000*						0 1	1								34
36	77.1	24,000*			79.3	24,000*											36
38	76.2	24,000*			78.4	24,000*			80.0	20,000*							38
40	75.2	24,000*	79.5	20,170*	77.5	24,000*			79.2	20,000*							40
45	72.7	24,000*	77.0	19,060*	75.2	24,000*			77.1	20,000*			78.6	18,000*			45
50	70.2	24,000*	74.4	18,120*	72.9	23,320*	78.2	14,810*	75.0	19,400*			76.6	17,040*			50
55	67.5	23,690	71.6	17,210*	70.4	21,400*	75.6	14,020*	72.7	17,790*	78.9	11,300*	74.5	15,580*			55
60	64.9	21,120	68.9	16,460*	68.1	19,880*	73.2	13,330*	70.5	16,510*	76.7	10,730*	72.5	14,410*	79.5	9,100*	60
65	62.2	19,000	66.1	15,800*	65.6	18,560*	70.7	12,760*	68.3	15,380*	74.4	10,250*	70.5	13,400*	77.4	8,660*	65
70	59.4	17,190	63.3	15,210*	63.2	17,370	68.1	12,230*	66.1	14,390*	72.0	9,780*	68.4	12,520*	75.3	8,240*	70
75	56.4	15,560	60.2	14,660*	60.4	15,740	65.3	11,720*	63.6	13,490*	69.5	9,360*	66.1	11,680*	72.9	7,870*	75
80	53.5	14,240	57.1	14,190*	57.8	14,410	62.5	11,300*	61.3	12,720*	67.0	8,990*	64.0	11,000*	70.7	7,530*	80
85	50.4	13,090	53.9	13,330	55.1	13,240	59.7	10,930*	58.8	12,050*	64.5	8,680*	61.8	10,400*	68.4	7,230*	85
90	47.1	12,100			52.3	12,230	56.7	10,580*	56.3	11,440*	61.8	8,370*	59.5	9,850*	66.0	6,960*	90
95 100	43.4 39.7	11,150			49.1 46.0	11,280	53.4	10,270*	53.6 50.9	10,860* 10,380*	58.9 56.1	8,110*	57.1 54.7	9,320*	63.4 60.9	6,700* 6,480*	95 100
100	39.7 35.6	10,360 9,650			46.0	10,490 9,760			48.0	9,850	53.1	7,870* 7,640*	54.7	8,880* 8,480*	58.3	6,280*	100
110	33.0	9,030			39.1	9,700			45.0	9,830	33.1	7,040	49.6	8,110*	55.5	6,100*	110
115					35.0	8,500			41.7	8,570			46.7	7,760*	52.4	5,930*	115
120					33.0	0,500			38.2	8,040			43.8	7,450*	32.7	3,230	120
125									34.4	7,560			40.7	7,180*			125
130									3	,,500			37.4	6,940*			130
135													33.8	6,720*			135
Reeves	2 2		2	2	2		1	2	2	1	1	1	2		1	Reeves	

Carbody Weight: 14,400

Reeves

Full Counterweight: 57,600 lbs

Fixed Jib Lift Capacity

	100' E	Boom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)		Load
Radiu	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
32	79.9	24,000*															32
34	79.0	24,000*															34
36	78.1	24,000*			80.0	24,000*											36
38	77.2	24,000*			79.2	24,000*											38
40	76.4	24,000*			78.4	24,000*			79.9	20,000*							40
45	74.1	24,000*	78.0	19,480*	76.3	24,000*	70.1	15 100*	78.0	20,000*			79.3	18,000*			45
50	71.8	24,000*	75.7	18,560*	74.2	24,000* 22,480*	79.1	15,100*	76.0	20,000*	70.7	11 500*	77.5	17,680*			50
55 60	69.3 67.0	23,450 20,870	73.2 70.7	17,650* 16,930*	71.9 69.7	20,920*	76.7 74.5	14,320* 13,660*	73.9 71.9	18,580* 17,260*	79.7 77.7	11,500* 10,950*	75.5 73.7	16,200* 15,030*			55 60
65	64.5	18,730	68.2	16,260*	67.5	18,950	72.2	13,000*	69.9	16,110*	75.5	10,930	71.8	13,030	78.3	8,810*	65
70	62.1	16,930	65.7	15,670*	65.3	17,150	69.9	12,560*	67.8	15,120*	73.4	10,470	69.9	13,090*	76.3	8,420*	70
75	59.4	15,290	62.9	15,100*	62.8	15,490	67.3	12,050*	65.6	14,170*	71.1	9,610*	67.8	12,250*	74.2	8,040*	75
80	56.7	13,970	60.2	14,300	60.4	14,150	64.9	11,640*	63.4	13,380*	68.8	9,230*	65.8	11,550*	72.1	7,710*	80
85	54.0	12,830	57.4	13,110	58.0	13,000	62.4	11,260*	61.2	12,690*	66.5	8,920*	63.8	10,910*	70.0	7,420*	85
90	51.2	11,810	54.5	12,050	55.5	11,970	59.8	10,910*	59.0	12,050*	64.2	8,610*	61.7	10,360*	67.9	7,160*	90
95	48.1	10,860	51.2	11,060	52.8	11,020	56.9	10,580*	56.5	11,130	61.6	8,330*	59.5	9,810*	65.5	6,900*	95
100	45.0	10,070			50.1	10,200	54.0	10,310*	54.1	10,310	59.1	8,090*	57.3	9,340*	63.2	6,670*	100
105	41.7	9,360			47.2	9,500			51.6	9,590	56.4	7,870*	55.1	8,920*	60.9	6,450*	105
110	38.1	8,730			44.3	8,860			49.0	8,950	53.7	7,690*	52.7	8,550*	58.4	6,280*	110
115	34.0	8,130			40.9	8,220	- 4		46.1	8,310			50.2	8,170*	55.7	6,100*	115
120 125					37.4 33.7	7,690	41		43.2 40.2	7,780			47.7 45.1	7,820	53.1	5,950*	120 125
130					33./	7,230			36.8	7,290 6,830		,	45.1	7,340 6,870			130
130									33.2	6,430			39.4	6,480			130
140									33.2	0,430			35.9	6,060			140
145													32.4	5,730			145

	110' E	Boom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)	1		Offset An	gle (deg.)			Offset An	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	80	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
34	79.8	24,000															34
36	79.0	24,000							1								36
38	78.2	24,000			79.9	24,000*											38
40	77.3	24,000			79.2	24,000*											40
45	75.3	24,000	79.0	19,860*	77.2	24,000*	S 4		78.8	20,000*			80.0	18,000*			45
50	73.2	24,000	76.8	18,930*	75.3	24,000*	79.9	15,360*	76.9	20,000*			78.3	18,000*			50
55	70.9	23,320	74.5	18,070*	73.2	23,500*	77.7	14,610*	75.0	19,330*		44.450	76.4	16,820*			55
60	68.7	20,740	72.2	17,350*	71.2	20,960	75.6	13,970*	73.1	17,980*	78.5	11,150*	74.7	15,600*	70.1	0.070*	60
65	66.5	18,580	70.0	16,680*	69.1	18,800	73.5	13,400*	71.2	16,820*	76.5	10,670*	72.9	14,570*	79.1	8,970*	65
70	64.3	16,770	67.7	16,090*	67.1	16,970	71.4	12,870*	69.3	15,800*	74.6	10,250*	71.1	13,640*	77.2	8,570*	70
75	61.8	15,140	65.1	15,520*	64.8	15,340	69.1	12,380*	67.2	14,830*	72.4 70.4	9,830*	69.2 67.3	12,780*	75.2 73.3	8,200*	75
80 85	59.4 57.0	13,820 12,670	62.7 60.2	14,170 12,980	62.7 60.5	13,990	66.9 64.6	11,940* 11,570*	65.2 63.2	14,020* 12,960	68.3	9,470* 9,140*	65.5	12,050* 11,410*	71.4	7,890* 7,580*	80 85
90	54.5	11,660	57.6	11,980	58.2	12,830 11,810	62.2	11,370*	61.2	11,920	66.1	8,840*	63.6	10,840*	69.4	7,360*	90
95	51.8	10,710	54.8	10,930	55.7	10,840	59.7	10,890*	58.9	10,950	63.8	8,550*	61.5	10,840	67.2	7,050*	95
100	49.1	9,920	52.0	10,930	53.7	10,050	57.1	10,890	56.7	10,930	61.5	8,310*	59.5	9,780*	65.2	6,830*	100
105	46.3	9,210	32.0	10,110	50.8	9,320	54.5	9,700	54.5	9,430	59.2	8,090*	57.5	9,360*	63.0	6,630*	105
110	43.3	8,570			48.2	8,680	51.8	9,010	52.2	8,770	56.7	7,890*	55.4	8,840	60.9	6,430*	110
115	39.9	7,950			45.4	8,040	31.0	7,010	49.7	8,130	54.0	7,690*	53.1	8,200	58.4	6,260*	115
120	36.5	7,420			42.5	7,510			47.2	7,600	3	.,020	50.9	7,640	56.1	6,100*	120
125	32.7	6,960			39.4	7,050			44.5	7,120			48.6	7,160	53.6	5,970*	125
130		.,			36.1	6,610			41.8	6,650			46.2	6,700		'	130
135					32.5	6,190			38.8	6,260			43.6	6,300			135
140									35.4	5,860			40.8	5,880			140
145													37.9	5,530			145
150													34.8	5,220			150
Reeves	 		2		2		1] :	2		1	2	2		1	Reeves	

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Fixed Jib Lift Capacity

Full Counterweight: 57,600 lbs Carbody Weight: 14,400

	120' Boom																
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)	1	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle		3		, ,		, ,		, ,		, ,		Boom Angle		, ,		(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
36	79.7	24,000*															36
38	79.0	24,000*			79.9	24.000*											38
40 45	78.2 76.3	24,000* 24,000*	79.7	20,190*	79.9 78.1	24,000* 24,000*			79.5	20,000*							40 45
50	74.3	24,000*	77.7	19,290*	76.1	24,000*			77.7	20,000*			78.9	18,000*			50
55	72.2	23,100	75.6	18,450*	74.3	23,360	78.5	14,880*	75.9	20,000*			77.2	17,390*			55
60	70.2	20,520	73.5	17,720*	72.4	20,760	76.6	14,240*	74.2	18,690*	79.2	11,330*	75.6	16,180*			60
65	68.2	18,360	71.4	17,080*	70.5	18,580	74.7	13,690*	72.4	17,500*	77.4	10,860*	73.9	15,120*	79.7	9,080*	65
70 75	66.1 63.9	16,550 14,920	69.3 67.0	16,490* 15,340	68.6 66.5	16,770 15,100	72.7 70.6	13,160* 12,670*	70.6 68.7	16,440* 15,250	75.6 73.6	10,420* 10,030*	72.2 70.4	14,170* 13,290*	78.0 76.1	8,700* 8,350*	70 75
80	61.7	13,600	64.8	13,340	64.5	13,770	68.5	12,070	66.8	13,230	71.7	9,670*	68.7	12,560*	74.4	8,040*	80
85	59.5	12,430	62.6	12,780	62.5	12,610	66.4	11,860*	65.0	12,740	69.7	9,340*	67.0	11,900*	72.6	7,730*	85
90	57.3	11,410	60.2	11,720	60.5	11,570	64.3	11,500*	63.1	11,700	67.8	9,060*	65.2	11,300*	70.7	7,470*	90
95	54.8	10,470	57.7	10,730	58.2	10,620	62.0	11,130	61.0	10,730	65.6	8,770*	63.3	10,730*	68.7	7,230*	95
100	52.4 49.9	9,650 8,950	55.2 52.6	9,890 9,140	56.0 53.8	9,810 9,080	59.7 57.4	10,290 9,520	59.0 57.0	9,920 9,190	63.6 61.4	8,500* 8,280*	61.5 59.6	9,980 9,250	66.8 64.9	7,010* 6,790*	100 105
1105	49.9	8,310	32.0	9,140	51.5	9,080 8,440	55.0	8,840	54.9	8,530	59.3	8,060*	57.7	8,590	62.9	6,610*	110
115	44.5	7,690			49.0	7,800	52.3	8,150	52.6	7,890	56.8	7,870*	55.6	7,950	60.7	6,410*	115
120	41.6	7,160			46.5	7,270			50.4	7,360	54.5	7,690*	53.6	7,400	58.6	6,260*	120
125	38.5	6,670			43.8	6,790			48.1	6,850	52.1	7,250	51.5	6,920	56.4	6,100*	125
130	35.3	6,230			41.1	6,320	41		45.7	6,410			49.3 47.1	6,450	54.1 51.7	5,970*	130
135 140	31.7	5,840			38.1 34.7	5,930 5,530			43.1 40.3	5,990 5,590			44.6	6,040 5,640	51./	5,860*	135 140
145					J-1.7	3,330			37.4	5,240			42.2	5,290			145
150									34.3	4,910			39.6	4,960			150
155													36.8	4,650			155
160									4				33.6	4,340			160
Reeves					2	2		1	2	2			2	2		1	Reeves

	130' B	oom										·					
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)	1		Offset An	gle (deg.)	1		Offset An	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	(ft)
38 40 45 50 55 60 65 70 75 80 95 100 105 115 120 125 130 145 155 160 165 170	79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7 65.6 61.6 59.6 57.3 55.2 52.9 50.6 48.1 45.6 43.0 40.2 37.3 33.9	24,000* 24,000* 24,000* 24,000* 22,880 18,140 16,330 14,680 12,210 11,170 10,220 9,430 8,700 8,060 7,450 6,920 6,430 5,990 5,570 5,200	78.5 76.5 74.6 72.7 70.7 68.6 66.6 64.5 62.4 60.1 57.9 55.6 53.2	19,620* 18,780* 18,070* 17,430* 16,860 15,140 13,770 11,530 10,510 9,700 8,950 8,260	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 60.3 58.3 56.3 54.2 51.9 49.7 47.4 45.0 42.5 39.6 36.8 33.7	24,000* 24,000* 23,170 18,380 16,550 14,880 13,550 11,350 11,350 10,380 9,560 8,200 7,560 7,030 6,540 6,080 5,680 5,680 4,930 4,600	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 63.9 61.9 59.8 57.6 55.2 52.9	15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140* 10,950 10,090 9,340 8,640 7,980 7,400	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 57.2 55.1 53.1 51.0 48.8 46.6 44.1 41.7 39.1 36.3 33.1	20,000* 20,000* 20,000* 19,330* 18,140* 16,710 15,030 13,690 12,520 11,480 10,510 9,700 8,950 8,310 7,670 7,120 6,630 6,170 5,750 5,350 5,000 4,670 4,360 4,030	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 61.4 59.2 57.1 54.9 52.6	11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 8,700* 8,480* 8,260* 8,040* 7,600 7,070 6,590	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0 52.0 50.0 47.8 45.6 43.3 41.0 38.3 35.6 32.7	18,000* 17,920* 16,710* 15,630* 14,680* 13,800* 13,050* 12,360* 11,570 10,580 9,760 9,030 8,370 7,780 6,670 6,230 5,820 5,400 5,040 4,710 4,400 4,070 3,760 3,480	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 64.6 62.6 60.7 58.7 56.6 54.5 52.2	8,840* 8,480* 8,170* 7,890* 7,360* 7,140* 6,940* 6,560* 6,390* 6,230* 6,100* 5,970* 5,840	38 40 45 50 55 60 65 70 75 80 85 90 95 100 105 115 115 120 125 130 135 140 145 150 160 165
Reeves	2	2	2	2	2	2	·	1		2		1	2	2		1	Reeves

Carbody Weight: 14,400

Full Counterweight: 57,600 lbs

1

Reeves

Fixed Jib Lift Capacity

Reeves

2

2

2

	140' E	Boom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)		Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle		Boom Angle	Rated Load	Boom Angle	Rated Load	, ,	1	, ,	Rated Load	Boom Angle	Rated Load	Boom Angle			Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
40	79.6	24,000*															40
45	77.9	24,000*			79.4	24,000*											45
50 55	76.2	24,000*	79.2	19,900*	77.8	24,000*	70.0	15 220*	79.1	20,000*			70.5	10.000*			50 55
60	74.4 72.6	22,680 20,080	77.4 75.6	19,090* 18,400*	76.1 74.4	22,970 20,340	79.9 78.2	15,320* 14,720*	77.4 75.9	20,000* 19,970*			78.5 77.0	18,000* 17,210*			60
65	70.9	17,940	73.8	17,760*	72.8	18,180	76.2 76.5	14,720*	74.3	18,360	78.8	11,170*	77.0 75.6	16,130*			65
70	69.1	16,110	72.0	16,680	71.1	16,330	74.8	13,690*	72.8	16,510	77.2	10,780*	74.1	15,160*	79.3	8,950*	70
75	67.2	14,460	70.0	14,960	69.3	14,680	72.9	13,180*	71.1	14,830	75.5	10,380*	72.5	14,260*	77.7	8,590*	75
80	65.3	13,130	68.1	13,600	67.6	13,330	71.2	12,760*	69.4	13,490	73.8	10,030*	71.0	13,490*	76.1	8,310*	80
85	63.5	11,970	66.2	12,380	65.9	12,160	69.4	12,380*	67.8	12,300	72.1	9,720*	69.4	12,410	74.5	8,020*	85
90	61.6	10,950	64.3	11,330	64.1	11,130	67.6	11,810	66.2	11,260	70.4	9,430*	67.9	11,350	72.9	7,760*	90
95	59.5	9,980	62.2	10,310	62.2	10,160	65.6	10,780	64.4	10,290	68.6	9,120*	66.2	10,380	71.2	7,510*	95
100 105	57.5 55.5	9,190 8,460	60.1	9,500	60.3	9,340	63.7 61.8	9,920	62.7 60.9	9,470	66.8	8,880*	64.6	9,540	69.5	7,270*	100 105
110	53.4	7,820	58.1 55.9	8,750 8,060	58.5 56.6	8,610 7,950	59.8	9,140 8,460	59.2	8,730 8,060	65.0 63.2	8,660* 8,440*	63.0 61.4	8,810 8,150	67.8 66.1	7,070* 6,870*	110
115	51.1	7,020	53.5	7,400	54.5	7,340	57.6	7,780	57.2	7,420	61.2	8,000	59.6	7,490	64.3	6,700*	115
120	48.9	6,650	51.3	6,850	52.5	6,790	55.5	7,200	55.4	6,900	59.3	7,420	57.9	6,960	62.5	6,520*	120
125	46.6	6,170		,	50.4	6,300	53.4	6,670	53.5	6,390	57.3	6,900	56.1	6,450	60.7	6,370*	125
130	44.2	5,730			48.2	5,840			51.6	5,930	55.3	6,390	54.3	5,990	58.8	6,230*	130
135	41.7	5,330			46.0	5,420			49.5	5,510	53.1	5,950	52.5	5,570	56.9	6,100*	135
140	38.8	4,910			43.5	5,020			47.3	5,090			50.5	5,150	54.7	5,640	140
145 150	36.0 32.9	4,560			41.1	4,670	41		45.1	4,730			48.5	4,800	52.7	5,240	145 150
155	32.9	4,210			38.5 35.7	4,320 3,940			42.9 40.5	4,400 4,030			46.5 44.4	4,470 4,100			155
160					32.5	3,610			37.8	3,680			42.0	3,720			160
165					32.3	3,010			35.1	3,370			39.7	3,410			165
170									32.2	3,080			37.3	3,130			170
175									1				34.6	2,840			175

2

1

	150' B	Boom															
			t Jib	-A		40 f				50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)						
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
45	78.6	24,000*			80.0	24,000*											45
50	77.0	24,000*	79.9	20,170*	78.5	24,000*			79.6	20,000*							50
55	75.3	22,530	78.1	19,370*	76.8	22,810			78.1	20,000*			79.1	18,000*			55
60	73.6	19,920	76.4	18,690*	75.3	20,190	78.9	14,920*	76.6	20,000*	70.4	11 220*	77.7	17,700*			60
65	72.0	17,790	74.8	18,070*	73.7	18,030	77.3	14,390*	75.1	18,200	79.4	11,330*	76.3	16,600* 15,650*	70.0	9,060*	65
70	70.3	15,960	73.1	16,550	72.1	16,180	75.7 73.9	13,910*	73.7 72.1	16,350 14,680	77.9 76.3	10,930* 10,530*	74.9 73.4	14,720*	79.9 78.3	8,700*	70
75	68.5	14,300	71.2 69.5	14,830	70.5	14,520 13,180	73.9	13,420* 13,000*	72.1	13,330	76.3	10,330**	73.4	13,420	76.8	8,420*	75
80	66.8 65.1	12,980 11,810	67.7	13,470 12,250	68.8 67.2	12,010	72.5 70.6	12,630*	69.0	12,140	73.1	9,870*	70.5	12,230	75.3	8,130*	80 85
85 90	63.3	10,800	65.9	12,230	65.6	10,970	68.9	11,680	67.5	11,110	71.5	9,590*	69.0	11,190	73.8	7,890*	90
95	61.4	9,830	63.9	10,180	63.8	10,970	67.1	10,670	65.8	10,110	69.8	9,300*	67.4	10,200	72.2	7,620*	95
100	59.6	9,010	62.1	9,340	62.1	9,190	65.3	9,810	64.2	9,300	68.2	9,060*	65.9	9,390	70.6	7,400*	100
105	57.7	8,310	60.2	8,590	60.4	8,460	63.5	9,030	62.6	8,570	66.5	8,810*	64.4	8,640	69.1	7,200*	105
110	55.8	7,640	58.2	7,910	58.6	7,800	61.7	8,330	60.9	7,910	64.8	8,570	62.9	7,980	67.5	7,010*	110
115	53.7	7,030	56.1	7,270	56.7	7,160	59.7	7,670	59.1	7,270	62.9	7,890	61.2	7,340	65.7	6,830*	115
120	51.7	6,500	54.0	6,700	54.8	6,610	57.8	7,090	57.4	6,720	61.2	7,290	59.6	6,790	64.1	6,650*	120
125	49.6	5,990	51.8	6,190	52.9	6,120	55.8	6,560	55.7	6,210	59.3	6,760	58.0	6,280	62.4	6,500*	125
130	47.5	5,550			51.0	5,660	53.8	6,080	53.9	5,750	57.5	6,280	56.3	5,820	60.7	6,370*	130
135	45.3	5,150			49.0	5,260			52.0	5,330	55.6	5,820	54.6	5,400	58.9	5,970	135
140	42.8	4,730			46.7	4,850			50.0	4,930	53.4	5,350	52.8	4,980	57.0	5,530	140
145	40.3	4,320			44.6	4,450			48.1	4,560			51.0	4,620	55.1	5,130	145
150	37.8	3,940			42.3	4,050			46.1	4,160			49.2	4,230	53.1	4,760	150
155	35.0	3,590			39.9	3,700			43.9	3,790			47.3	3,850			155
160	31.8	3,260			37.3	3,350			41.6	3,430			45.2 43.1	3,480 3,170			160
165					34.6	3,040			39.3 36.8	3,100			43.1	2,860			165
170 175									36.8	2,820 2,550			38.7	2,860			170 175
Reeves	2	2	2)		2	1	<u> </u>		2			2	2		1	Reeves

Carbody Weight: 14,400

Full Counterweight: 57,600 lbs

46.0

44.1

2

1

2,860

2,550

165

170

Reeves

Fixed Jib Lift Capacity

2,600

165

170 Reeves 33.9

2

38.8

2

2

2,710

1

	160' E	Boom															
		30 f	t Jib			40 f	ft Jib			50 1	ft Jib			60 f	t Jib		
Load		Offset An	gle (deg.))		Offset An	ngle (deg.))		Offset Ar	ngle (deg.)			Offset Ar	igle (deg.))	Load
Radius	1	0	3	0	1	0	3	80	1	0	3	0	1	0	3	0	Radius
(ft)	Boom Angle (deg.)	Rated Load (lbs)	(ft)														
45 50	79.2 77.7	24,000* 24,000*	70.0	19.640*	79.0	22,830*			78.7	20.000*			79.6	18,000*			45 50
55 60	76.1 74.5	22,350 19,750	78.8 77.2	18,950*	77.5 76.0	22,000*	79.5	15,120*	77.3	20,000* 19,200*	00.0	11 440*	78.3	17,800*			55 60
65 70	73.0 71.4	17,590 15,760	75.6 74.0	18,290 16,400	74.6 73.1	17,850 16,000	78.0 76.4	14,590* 14,100*	75.9 74.5	18,030 16,180	80.0 78.5	11,440* 11,060*	76.9 75.6	17,060* 16,090*			65 70
75 80	69.7 68.1	14,100 12,780	72.3 70.7	14,680 13,290	71.5 70.0	14,320 12,980	74.8 73.2	13,640* 13,220*	72.9 71.5	14,500 13,130	77.0 75.5	10,670* 10,330*	74.2 72.8	14,610 13,240	78.9 77.5	8,810* 8,530*	75 80
85 90	66.5 64.8	11,610 10,580	69.0 67.3	12,080 11,020	68.4 66.9	11,810 10,780	71.7 70.1	12,630 11,530	70.1 68.6	11,940 10,910	74.0 72.5	10,030* 9,740*	71.4 70.0	12,050 11,000	76.1 74.6	8,240* 8,000*	85 90
95 100	63.0 61.3	9,630 8,810	65.5 63.8	10,000 9,170	65.2 63.6	9,780 8,970	68.4 66.7	10,510 9,650	67.0 65.5	9,920 9,100	70.9 69.3	9,450* 9,210*	68.5 67.1	10,000 9,190	73.1 71.6	7,760* 7,530*	95 100
105 110	59.6 57.9	8,090 7,450	62.0 60.2	8,420 7,730	62.0 60.4	8,240 7,580	65.1 63.4	8,880 8,170	64.0 62.5	8,370 7,690	67.8 66.2	-,	65.7 42064.2	8,440 7,780	70.2 68.7	7,310* 7,140*	105 110
115 120	55.9 54.1	6,810 6,280	58.2 56.3	7,070 6,520	58.6 56.9	6,940 6,410	61.5 59.8	7,490 6,920	60.8 59.2	7,050 6,500	64.5 62.8	7,730 7,140	62.7 61.2	7,140 6,590	67.0 65.5	6,940* 6,790*	115 120
125 130	52.2 50.3	5,770 5,330	54.4 52.4	5,990 5,530	55.1 53.3	5,900 5,440	58.0 56.1	6,390 5,900	57.6 55.9	6,010 5,550	61.1 59.4	6,610 6,100	59.7 58.1	6,080 5,620	63.9 62.3	6,610* 6,280	125 130
135 140	48.2 46.0	4,890 4,400			51.5 49.5	5,020 4,560	54.2 52.1	5,440 5,000	54.2 52.4	5,130 4,670	57.6 55.7	5,640 5,200	56.5 54.8	5,180 4,760	60.7 58.9	5,820 5,350	135 140
145 150	43.9 41.6	4,010 3,610			47.5 45.5	4,140 3,740	4		50.6 48.7	4,250 3,850	53.8 51.9	4,800 4,430	53.2 51.5	4,320 3,920	57.1 55.4	4,960 4,580	145 150
155 160	39.3 36.6	3,260 2,910			43.4 41.1	3,370 3,020			46.8 44.8	3,480 3,100			49.7 47.8	3,540 3,170	53.6 51.5	4,230 3,810	155 160
4.65	1 22 0	2 600	1	1	20.0	2 710			42.7	2 700			100	2000		1	1 4 6 5

42.7

2,790

2

	170' B	oom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 f	t Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset Ar	gle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	0	3	30	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)						
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
45	79.8	23,360*															45
50	78.3	22,830*			79.6	20,800*			1								50
55	76.8	22,150	79.4	19,860*	78.1	20,000*			79.2	18,500*			80.0	17,000*			55
60	75.3	19,550	77.9	19,220*	76.7	19,200*	80.0	15,290*	77.9	17,800*			78.8	16,400*			60
65	73.8	17,370	76.4	18,120	75.3	17,630	78.6	14,770*	76.5	17,100*			77.5	15,800*			65
70	72.4	15,560	74.9	16,220	73.9	15,800	77.1	14,300*	75.2	15,980	79.1	11,170*	76.2	15,200*			70
75	70.8	13,880	73.2	14,500	72.4	14,130	75.6	13,840*	73.8	14,280	77.6	10,800*	74.9	13,980*	79.4	8,900*	75
80	69.3	12,560	71.7	13,090	71.0	12,760	74.1	13,420*	72.4	12,940	76.2	10,490*	73.6	13,050	78.1	8,610*	80
85	67.7	11,390	70.1	11,880	69.5	11,590	72.6	12,450	71.0	11,750	74.8	10,180*	72.3	11,860	76.7	8,350*	85
90	66.2	10,360	68.6	10,820	68.1	10,560	71.1	11,370	69.6	10,690	73.4	9,890*	71.0	10,800	75.4	8,110*	90
95	64.5	9,390	66.9	9,810	66.5	9,560	69.5	10,330	68.2	9,720	71.9	9,610*	69.5	9,810	73.9	7,870*	95
100	62.9	8,590	65.2	8,970	65.0	8,750	68.0	9,470	66.7	8,880	70.4	9,360*	68.2	8,970	72.5	7,640*	100
105	61.3	7,870	63.6	8,220	63.5	8,020	66.4	8,680	65.3 63.9	8,150	68.9	8,970	66.8 65.5	8,220	71.1 69.7	7,450*	105
110 115	59.7 57.9	7,200 6,560	61.9 60.1	7,530 6,870	61.9 60.3	7,360 6,720	64.8 63.1	8,000 7,310	62.3	7,470 6,830	67.4 65.8	8,240 7,560	64.0	7,560 6,920	68.2	7,250* 7,050*	110
120	56.2	6,040	58.3	6,300	58.7	6,170	61.5	6,720	60.8	6,280	64.3	6,960	62.6	6,340	66.7	6,900*	120
125	54.4	5,550	56.5	5,790	57.0	5,680	59.8	6,190	59.3	5,770	62.7	6,410	61.1	5,860	65.2	6,610	125
130	52.6	5,070	54.7	5,310	55.4	5,220	58.1	5,700	57.7	5,310	61.1	5,930	59.7	5,370	63.7	6,100	130
135	50.8	4,560	52.8	4,850	53.7	4,730	56.4	5,260	56.1	4,870	59.5	5,460	58.2	4,960	62.2	5,640	135
140	48.8	4,070	32.0	1,050	51.8	4,230	54.4	4,820	54.4	4,360	57.7	5,000	56.6	4,450	60.5	5,180	140
145	46.9	3,650			50.1	3,810	52.6	4,360	52.8	3,920	56.0	4,620	55.1	4,010	58.9	4,780	145
150	44.8	3,280			48.2	3,410		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	51.1	3,520	54.2	4,160	53.5	3,610	57.3	4,380	150
155	42.7	2,930			46.3	3,060			49.3	3,150	52.4	3,760	51.9	3,240	55.6	3,960	155
160	40.4	2,570			44.2	2,680			47.4	2,790			50.2	2,860	53.8	3,540	160
165													48.5	2,530	52.0	3,170	165
Reeves	2	2	2	2	2	2		1	- 2	2	2	2	2	2		1	Reeves

Carbody Weight: 14,400

Full Counterweight: 57,600 lbs

Fixed Jib Lift Capacity

	180' E	oom															
		30 f	t Jib			40 f	t Jib			50 f	t Jib			60 1	ft Jib		
Load		Offset An	gle (deg.)			Offset An	gle (deg.)			Offset An	gle (deg.)			Offset Ar	ngle (deg.))	Load
Radius	1	0	3	0	1	0	3	0	1	0	3	0	1	10 30		0	Radius
(ft)	Boom Angle	Rated Load	(ft)														
	(deg.)	(lbs)															
50	78.9	19,770*															50
55	77.4	19,240*	79.9	19,060*	78.7	18,500*			79.7	17,000*							55
60	76.0	18,760*	78.5	18,580*	77.3	17,800*			78.4	16,400*			79.3	15,000*			60
65	74.6	17,190	77.1	17,960	76.0	17,100*	79.1	14,740*	77.1	15,800*			78.0	14,500*			65
70	73.2	15,360	75.6	16,070	74.7	15,630	77.7	14,460*	75.9	15,200*	79.6	11,300*	76.8	14,000*			70
75	71.7	13,710	74.1	14,350	73.2	13,950	76.3	14,020*	74.5	13,980*	78.2	10,930*	75.5	13,500*	79.9	8,990*	75
80	70.3	12,360	72.6	12,940	71.9	12,580	74.9	13,580	73.2	12,760	76.9	10,600*	74.3	12,870	78.6	8,700*	80
85	68.8	11,190	71.2	11,720	70.5	11,410	73.5	12,320	71.9	11,570	75.5	10,310*	73.0	11,680	77.3	8,460*	85
90	67.4	10,180	69.7	10,640	69.1	10,360	72.1	11,220	70.6	10,510	74.2	10,030*	71.8	10,620	76.0	8,200*	90
95	65.8	9,190	68.1	9,630	67.6	9,390	70.5	10,180	69.2	9,520	72.7	9,740*	70.4	9,630	74.6	7,950*	95
100	64.3	8,390	66.5	8,790	66.2	8,570	69.1	9,320	67.8	8,700	71.4	9,500*	69.2	8,790	73.3	7,760*	100
105	62.8	7,670	65.0	8,040	64.8	7,820	67.6	8,550	66.5	7,950	70.0	8,810	67.9	8,040	72.0	7,530*	105
110	61.3	7,010	63.4	7,360	63.3	7,160	66.1	7,840	65.1	7,290	68.5	8,110	66.6	7,360	70.7	7,360*	110
115	59.6	6,370	61.7	6,670	61.8	6,520	64.5	7,160	63.6	6,630	67.0		40065.2	6,720	69.2	7,160*	115
120	58.0	5,840	60.1	6,120	60.3	5,970	63.0	6,560	62.2	6,080	65.6	6,810	63.8	6,170	67.8	7,010*	120
125	56.4	5,310	58.4	5,590	58.8	5,460	61.4	6,040	60.8	5,570	64.1	6,260	62.5	5,660	66.4	6,480	125
130	54.7	4,780	56.7	5,110	57.2	4,960	59.8	5,550	59.3	5,090	62.6	5,770	61.1	5,180	65.0	5,970	130 135
135 140	53.0 51.2	4,270 3,790	55.0 53.1	4,580 4,070	55.6 53.9	4,450 3,940	58.2 56.4	5,090 4,580	57.8 56.2	4,580 4,070	61.1 59.4	5,310 4,850	59.7 58.2	4,670 4,160	63.6 62.0	5,480 5,020	140
145	49.4	3,790	51.3	3,610	52.3	3,520	54.7	4,380	54.7	3,630	57.8	4,380	56.8	3,720	60.5	4,620	145
150	49.4 47.6	2,970	31.3	3,010	50.6	3,130	53.0	3,680	53.1	3,240	56.2	3,940	55.3	3,720	59.0	4,020	150
155	45.7	2,600			48.8	2,750	33.0	3,000	51.5	2,860	54.5	3,520	53.8	2,930	57.5	3,740	155
160	13.7	2,000			10.0	2,750			31.3	2,000	52.7	3,100	52.2	2,550	55.8	3,320	160
165											32.7	3,100	32.2	2,550	54.1	2,950	165
170									4						52.4	2,600	170
Reeves	- 2	2	2	2	1	2		ı			À	i		ı		1	Reeves

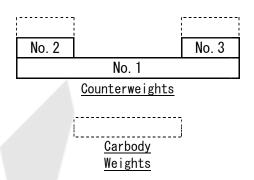
Supplemental Data - Clamshell

- 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).
- 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 39,000 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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)	16,000

- 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 39,000 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: 70 ft (21.3 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

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 (39,000 lbs) - Without Carbody weights - Crawlers in extended position.

40'	' Boo	m	5()' Boo	m	60)' Boo	m	70	D' Boo	m
Radius	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	63.6 60.3 56.9 53.4 49.7 45.7 41.5 36.9 31.6 25.5	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 *	26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0	64.2 61.6 58.9 56.2 53.3 50.4 47.3 44.1 40.6 36.9 32.8 28.2	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 15,400 *	30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0	64.5 62.4 60.2 58.0 55.7 53.3 50.9 48.3 45.7 42.9 40.0 36.9 33.5 29.8 25.6	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 15,200 * 14,500 13,600 13,000 12,300 11,900	34.0 36.0 38.0 40.0 42.0 44.0 48.0 50.0 52.0 54.0 56.0 62.0 64.0 66.0	64.8 63.0 61.1 59.2 57.3 55.3 51.2 49.0 46.8 44.5 42.1 39.6 36.9 34.0 30.9 27.5	16,000 * 16,000 * 16,000 * 16,000 * 15,800 * 15,600 * 15,200 * 14,300 * 13,600 * 12,300 * 11,600 * 11,200 * 10,800 * 10,100 * 9,700 *

Supplemental Data - Barge

- 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).
- 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.
- 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 57,600 lbs (5) Counterweights fully installed.
 - Must have 14,400 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.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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.
- 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)	320		Not Ap	plicable	

When auxiliary sheave is used for 10 or 9 reeving parts of line, it is not required to deduct 320 lbs from rated loads.

- 8. To install the jib is prohibited when the machine is on a barge.
- The total load that can be lifted over an auxiliary sheave is the value for 320 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 17,000 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)	17,000	34,000	51,000	68,000	85,000

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

Maximum Load for Auxiliary Sheave

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

14. Weight of recommended hook block.

Hook Block	85 t	55 t	35 t	21 t	7 t ball hook
Weight (lbs)	1,765	1,545	1,105	885	355

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 of than that specified can reduce operating capacity.
- 16. Designed and rated to comply with ANSI Code B30.5.

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

Barge

5 Counterweights (57,600 lbs) - 2 Carbody weights (14,400 lbs) - Crawlers in extended position.

	40'	' Boon	n				50	' Boon	n				60	' Boon	n		
	70			d Lood (lb	26)		50			Lload (lh	> </th <th></th> <th>00</th> <th></th> <th></th> <th>d I ood (lb</th> <th>) and</th>		00			d I ood (lb) and
Load	Boom	0 Degree	1 Degree	Load (Ib	2 Degree	Load	Boom	0 Degree	50° Rateo	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	Load (Ib	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List
10.0	81.7	170,000 *				12.0	81.1	166,400*				13.0	81.6	154,200 *			
11.0	80.3	170,000 *				13.0	79.9	154,400 *				14.0	80.7	143,800 *			
12.0 13.0	78.8 77.4	266,600 * 154,600 *				14.0 15.0	78.8 77.6	144,000 * 134,900 *				15.0 16.0	79.7 78.7	134,700 * 126,700 *			
14.0	75.9	144,200 *				16.0	76.4	126,900 *				17.0	77.7	119,500 *			
15.0	74.4	135,100 *	135,100 *			17.0	75.2	119,700*				18.0	76.8	113,000 *			
16.0	72.9	127,100 *	127,100 *	405 400		18.0	74.0	113,200 *	105,400			19.0	75.8	105,460	20.000		
17.0 18.0	71.4 69.9	119,900 * 113,400 *	119,900 * 113,400 *	105,100		19.0 20.0	72.8 71.6	105,660 97,350	97,100 90,500			20.0	74.8 72.8	97,130 83,790	89,000 77,500		
19.0	68.3	105,820	98,900 *	93,300		22.0	69.2	84,010	78,800	73,500		24.0	70.8	73,560	68,500	63,600	
20.0	66.7	97,500	92,100	86,400		24.0	66.7	73,810	69,700	65,500		26.0	68.7	65,490	61,400	57,900	51,000
22.0 24.0	63.6 60.3	84,190 74,000	80,100 70,800	75,700 67,300	71,700 64,700	26.0 28.0	64.2 61.6	65,760 59,230	62,400 56,400	59,000 53,700	56,100 51,400	28.0	66.6 64.5	58,970 53,570	55,600 50,700	52,700 48,200	49,100 45,800
26.0	56.9	65,980	63,300	60,500	58,100	30.0	58.9	53,850	51,500	49,200	47,300	32.0	62.4	49,030	46,600	44,500	42,500
28.0	53.4	59,400	57,200	55,000	53,000	32.0	56.2	49,310	47,300	45,500	43,700	34.0	60.2	45,170	43,100	41,000	39,400
30.0	49.7	54,100	52,300	50,400	48,700	34.0	53.3	45,480	43,700	42,200	40,700	36.0	58.0	41,840	40,000	38,400	36,900
32.0 34.0	45.7 41.5	49,580 45,740	48,100 44,500	46,500 43,200	45,100 42,100	36.0 38.0	50.4 47.3	42,150 39,280	40,600 37,900	39,300 36,800	38,100 35,500	38.0 40.0	55.7 53.3	38,950 36,410	37,300 35,000	35,800 33,900	34,700 32,700
36.0	36.9	42,460	41,400	40,300	39,400	40.0	44.1	36,750	35,700	34,800	33,800	45.0	47.0	31,230	30,200	29,300	28,500
												50.0	40.0	27,290	26,400	25,900	25,300
															•		
									A								
Ree	ves	10	8	7	5	Ree	eves	10	7	5	4	Ree	eves	10	6	4	4
Ree		10 Boon		7	5	Ree		10 Boon		5	4	Ree		10 Boon		4	4
Ree		Boon	n	7 d Load (lk		Ree		Boon			3	Ree		' Boor	n	4 Load (lb	-
Load Radius		Boon	n			Ree Load Radius		Boon	n		3	Load Radius		' Boor	n		-
Load Radius (ft)	Boom Angle (deg.)	Boon 30 Degree Machine List	n 60° Rateo	d Load (Ik	os) 2 Degree	Load Radius (ft)	Boom Angle (deg.)	Boon 36 0 Degree Machine List	O° Rateo	Load (Ib	os) 2 Degree	Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	n 50° Rateo	Load (Ik	os) 2 Degree
Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List 143,600 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.) 81.6	Boon O Degree Machine List 126,300 *	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.) 81.9	Boon 30 0 Degree Machine List 118,820*	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft)	Boom Angle (deg.)	Boon 30 Degree Machine List	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.)	30 0 Degree Machine List 126,300 * 119,100 *	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0	Boom Angle (deg.) 82.0 81.2	Boon 30 0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0	Boom Angle (deg.) 81.6 80.8	Boon O Degree Machine List 126,300 *	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.9 81.2	30 0 Degree Machine List 118,820 * 112,400 *	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7	Boon 30 O Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6	O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8	30 Degree Machine List 143,600 * 126,500 * 119,300 * 112,800 * 105,400	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2	30 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	30 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7	Boon 30 O Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 *	n 60° Rateo 1 Degree Machine	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6	O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930	1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480	1 Degree Machine	Load (Ib	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6	Boon 0 Degree Machine List 143,600 * 126,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470	1 Degree Machine List	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7	Boon 36 0 Degree Machine List 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680	1 Degree Machine List 60,000 54,200	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4	Boon 30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	1 Degree Machine List 53,700 49,000	Load (Ik 2 Degree Machine List	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6 71.9	Boon 0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380	1 Degree Machine List	Load (Ik 2 Degree Machine List	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2	Boon 36 0 Degree Machine List 119,100 * 112,600 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260	1 Degree Machine List 60,000 54,200 49,500	Load (Ik 2 Degree Machine List	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	Boon 0 Degree Machine List 118,820 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580	1 Degree Machine List 53,700 49,000 45,000	Load (It	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6	Boon 0 Degree Machine List 143,600 * 126,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470	1 Degree Machine List	Load (Ib	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7	Boon 36 0 Degree Machine List 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680	1 Degree Machine List 60,000 54,200	Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4	Boon 30 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	1 Degree Machine List 53,700 49,000	Load (Ik 2 Degree Machine List	2 Degree Machine
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6	Boor 0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100	Load (Ik 2 Degree Machine List 51,600 47,300 43,700	2 Degree Machine List 42,400 40,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 66.6	Boon 36 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490	60,000 54,200 49,500 42,000 39,000	2 Degree Machine List 42,800 39,700 36,900	2 Degree Machine List 35,800 34,500	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	90 Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100	Load (Ik 2 Degree Machine List 41,700 38,900 36,300 34,200	2 Degree Machine List
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 168.4 66.6 64.8	Boor 0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500	Load (Ik 2 Degree Machine List 51,600 47,300 43,700 40,500	2 Degree Machine List 42,400 40,900 38,400	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	800 Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 66.6 65.0	Boon 36 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580	60,000 54,200 49,500 42,000 39,000 36,500	2 Degree Machine List 42,800 39,700 36,900 34,600	2 Degree Machine List 35,800 34,500 32,700	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	90 Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100 34,000	41,700 38,900 36,300 34,200 32,100	2 Degree Machine List
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6	Boor 0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100	Load (Ik 2 Degree Machine List 51,600 47,300 43,700	2 Degree Machine List 42,400 40,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	80 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 66.6	Boon 36 0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490	60,000 54,200 49,500 42,000 39,000	2 Degree Machine List 42,800 39,700 36,900	2 Degree Machine List 35,800 34,500 32,700 30,900	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	90 Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300	41,700 38,900 36,300 34,200 32,100 27,700	2 Degree Machine List
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 671.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800	51,600 47,300 43,700 40,500 37,700 35,000 33,300	2 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900	Load Radius (ft) 16.0 17.0 18.0 19.0 22.0 24.0 26.0 32.0 32.0 34.0 36.0 38.0 40.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 77.2 77.2 77.2 71.2 69.7 68.1 66.6 65.0 63.4 59.3 55.0	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 25,700	42,800 39,700 36,900 34,600 32,600 28,200 24,700	35,800 34,500 32,700 30,900 27,000 23,800	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 69.3 68.0 66.6 63.0 59.4 55.6	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520	53,700 49,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600	29,900 26,400 23,400 20,800
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 671.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2 54.3	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800	2 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 77.2 77.2 77.2 77.2 77.2 69.7 66.6 65.0 63.4 59.3 55.0 50.5	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 25,700 22,800	42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000	35,800 34,500 32,700 30,900 27,000 23,800 21,300	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 58,570 58,570 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400	29,900 26,400 23,400 20,800 18,700
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 68.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300	42,400 40,900 38,400 35,900 31,900 27,700 24,600	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 32.0 34.0 38.0 40.0 45.0 50.0 65.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 58,570 58,570 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 20,100 18,100	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600	29,900 26,400 23,400 20,800 18,700 17,000
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.0 75.3 671.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2 54.3	Boor ODegree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800	2 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 77.2 77.2 77.2 77.2 77.2 69.7 66.6 65.0 63.4 59.3 55.0 50.5	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 25,700 22,800	42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000	35,800 34,500 32,700 30,900 27,000 23,800 21,300	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor 0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 58,570 58,570 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400	29,900 26,400 23,400 20,800 18,700
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 36.0 38.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 30.0 33.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 38.0 38.0 34.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 24.0 38.0 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600
Load Radius (ft) 14.0 15.0 16.0 17.0 18.0 20.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 82.0 81.2 80.3 79.5 77.8 77.0 75.3 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	60° Ratec 1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	42,400 40,900 38,400 35,900 31,900 27,700 24,600 21,900	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 50.0 65.0	800 Boom Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 77.7 74.2 77.7 71.2 68.1 66.6 65.0 63.4 59.3 55.0 50.5 45.6	Boon 36 O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500 22,800 20,400	42,800 39,700 36,900 34,600 28,200 24,700 22,000 19,900	35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 34.0 33.0 34.0 35.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.9 81.2 80.6 77.3 76.0 77.3 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	Boor O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 65,140 58,570 53,150 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	53,700 49,000 41,700 38,700 36,100 34,000 29,300 22,500 20,100 18,100 16,400	41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	29,900 26,400 23,400 20,800 18,700 17,000 15,600

Barge

5 Counterweights (57,600 lbs) - 2 Carbody weights (14,400 lbs) - Crawlers in extended position.

	100)' Booi	m				110)' Boo	m				120)' Booi	m		
	100			d Load (lk	25)		110		60° Rateo	l Load (lh	25)		120		60° Rateo	l Load (lb) ()
Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine	Machine List
19.0	81.5	101,850*	List	List	List	20.0	81.8	92,590	List	List	List	22.0	81.5	80,680 *	List	List	List
20.0	80.9	96,800				22.0	80.7	83,260				24.0	80.5	72,950			
22.0	79.8	83,400				24.0	79.7	73,010				26.0	79.6	64,810			
24.0	78.6	73,120				26.0	78.6	64,900				28.0	78.6	58,240			
26.0 28.0	77.4 76.3	65,010 58,440				28.0	77.5 76.5	58,330 52,880				30.0 32.0	77.6 76.6	52,800 48,230			
30.0	75.1	53,020				32.0	75.4	48,320				34.0	75.6	44,330			
32.0	73.9	48,450	44,500			34.0	74.3	44,440	40,600			36.0	74.7	40,980	37,600		
34.0	72.7	44,550	41,100			36.0	73.2	41,090	37,800			38.0	73.7	38,050	35,100		
36.0	71.5	41,200	38,200	35,700		38.0	72.1	38,160	35,300		4	40.0	72.7	35,470	33,000	26 200	
38.0 40.0	70.3 69.0	38,290 35,730	35,600 33,500	33,700 31,600		40.0 45.0	71.0 68.2	35,600 30,350	33,200 28,500			45.0 50.0	70.1 67.6	30,220 26,210	28,300 24,600	26,200 23,100	
45.0	65.9	30,480	28,900	27,300	25,800	50.0	65.4	26,340	24,900	23,500	22,100	55.0	65.0	23,010	21,600	20,500	19,400
50.0	62.7	26,470	25,100	24,000	22,800	55.0	62.5	23,170	21,900	20,800	19,900	60.0	62.3	20,450	19,300	18,300	17,400
55.0	59.5	23,320	22,200	21,200	20,200	60.0	59.5	20,610	19,600	18,700	17,800	65.0	59.5	18,320	17,400	16,500	15,700
60.0 65.0	56.1 52.5	20,740 18,620	19,800 17,800	19,100 17,200	18,200 16,500	65.0 70.0	56.4 53.2	18,490 16,710	17,700 16,000	16,900 15,300	16,100 14,800	70.0 75.0	56.7 53.8	16,530 15,010	15,700 14,300	14,900 13,700	14,400 13,200
70.0	48.8	16,860	16,200	15,600	15,000	75.0	49.9	15,210	14,500	13,900	13,500	80.0	50.8	13,710	13,000	12,700	12,100
75.0	44.8	15,360	14,800	14,300	13,900	80.0	46.4	13,910	13,300	12,900	12,500	85.0	47.6	12,580	12,000	11,600	11,200
80.0	40.6	14,080	13,600	13,100	12,900	85.0	42.6	12,800	12,300	11,900	11,600	90.0	44.3	11,590	11,100	10,700	10,400
85.0	35.9	12,980	12,600	12,200	12,000	90.0	38.6	11,830	11,400	11,000	10,800	95.0	40.7	10,730	10,300	9,900	9,600
						95.0	34.2	10,970	10,600	10,300	10,100	100.0 105.0	36.9 32.7	9,960 9,280	9,500	9,300 8,700	8,900 8,500
									M			105.0	32.7	7,200		0,700	0,500
						M											
Pos	eves	6	4	4	2	Pos	eves	6	4	2	2	Doc	eves	5	4	2	2
nee		_	-	4	4	litee	-ve2	0	-			nee	eves	ر	4		
	130	N' Rooi	m				1//	N' Roo	m		-		150)' Rooi	m		
	130)' Booi		d Load (lk	ns)		140)' Boo		LLoad (lk	ns)		150)' Booi		l Load (lh	ns)
Load	13C	30	50° Rated	d Load (lk		Load		3	60° Rateo			Load		30	60° Rateo		
Load Radius (ft)				d Load (Ik	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)			2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)			Load (Ib 2 Degree Machine List	2 Degree Machine List
Radius	Boom Angle	0 Degree Machine	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Boom Angle	0 Degree Machine	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Boom Angle	0 Degree Machine	60° Rateo	2 Degree Machine	2 Degree Machine
Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.3 80.4	0 Degree Machine List 71,200 * 64,610	60° Rateo	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.9 81.1	0 Degree Machine List 61,720 * 60,840	60° Rateo	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0	Boom Angle (deg.) 81.7 80.9	0 Degree Machine List 52,680 * 51,800 *	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0	Boom Angle (deg.) 81.3 80.4 79.5	0 Degree Machine List 71,200 * 64,610 58,020	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0	Boom Angle (deg.) 81.9 81.1 80.2	0 Degree Machine List 61,720 * 60,840 57,980	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0	Boom Angle (deg.) 81.7 80.9 80.1	0 Degree Machine List 52,680 * 51,800 * 51,140 *	60° Rateo	2 Degree Machine	2 Degree Machine
Radius (ft) 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.1 80.2 79.4	0 Degree Machine List 61,720 * 60,840 57,980 52,530	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0	Boom Angle (deg.) 81.3 80.4 79.5	0 Degree Machine List 71,200 * 64,610 58,020	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0	Boom Angle (deg.) 81.9 81.1 80.2	0 Degree Machine List 61,720 * 60,840 57,980	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6	0 Degree Machine List 52,680 * 51,800 * 51,140 *	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760	60° Rateo	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.9 81.1 80.2 79.4 78.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 44,040 40,670	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	800m Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0	30 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740	1 Degree Machine List	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	800m Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0	30 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250	1 Degree Machine List 34,600 32,500	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	80.2 79.4 78.6 77.7 76.9 76.0 75.2	30 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160	60° Rateo	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	80.9 80.1 79.3 78.6 77.8 76.2 74.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760	60° Ratec 1 Degree Machine List	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	800m Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0	30 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740	1 Degree Machine List	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	800m Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030	60° Rateo	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000	1 Degree Machine List 34,600 32,500 27,800	2 Degree Machine List	2 Degree Machine	24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	80.2 79.4 78.6 77.7 76.9 75.2 73.1	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910	1 Degree Machine List	2 Degree Machine List	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720	1 Degree Machine List	2 Degree Machine List	2 Degree Machine
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 67.0 64.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210	34,600 32,500 27,800 24,200 19,000	22,600 20,100 17,900	2 Degree Machine List	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0	Boom Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 35,160 29,910 25,880 22,680 20,100	1 Degree Machine List 2 4,100 21,200 18,800	2 Degree Machine List 22,300 19,700 17,700	2 Degree Machine List	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 72.2 70.2 68.2 66.1	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810	1 Degree Machine List 23,700 20,900 18,600 16,600	2 Degree Machine List 19,200 17,400 15,600	2 Degree Machine List
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 60.0 65.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1	0 Degree Machine 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070	34,600 32,500 27,800 24,200 19,000 17,100	22,600 20,100 17,900 16,100	2 Degree Machine List 16,800 15,400	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960	1 Degree Machine List 2 4,100 21,200 18,800 16,800	22,300 19,700 15,800	2 Degree Machine List 15,700 14,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0 70.0	81.7 80.9 80.1 79.3 77.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000	2 Degree Machine List 19,200 17,400 15,600 14,100	2 Degree Machine List 13,700 13,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290	34,600 32,500 27,800 21,300 19,000 17,100 15,400	22,600 20,100 17,900 16,100 14,600	2 Degree Machine List 16,800 15,400 14,000	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150	2 4,100 21,200 18,800 16,800 15,100	22,300 19,700 15,800 14,400	2 Degree Machine List 15,700 14,900 13,600	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0 70.0 75.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480	23,700 20,900 18,600 16,600 13,700	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800	2 Degree Machine List 13,700 13,100 12,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1	0 Degree Machine 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070	34,600 32,500 27,800 24,200 19,000 17,100	22,600 20,100 17,900 16,100	2 Degree Machine List 16,800 15,400	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960	1 Degree Machine List 2 4,100 21,200 18,800 16,800	22,300 19,700 15,800	2 Degree Machine List 15,700 14,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 65.0 70.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000	2 Degree Machine List 19,200 17,400 15,600 14,100	2 Degree Machine List 13,700 13,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 66.6 62.1 59.6 57.0 54.3 51.5	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 22,790 20,210 18,070 16,290 14,770 13,470 12,320	34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000	22,600 20,100 17,900 16,100 14,600 13,200	16,800 15,400 14,000 12,800 11,700 10,700	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 77.0 80.0 85.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 66.5 64.3 62.0 59.6 57.2 54.7	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 22,680 20,100 17,960 16,150 14,630 13,310 12,160	2 4,100 21,200 18,800 16,800 15,100 13,700 12,500 11,500	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 65.0 60.0 65.0 77.0 80.0 85.0 90.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 74.2 66.1 64.0 61.8 59.6 57.4 55.1	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 119,950 117,810 16,000 14,480 13,160 12,010 11,000	23,700 20,900 18,600 15,000 13,700 12,300 11,300 10,400	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Room Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 20,210 18,070 16,290 14,770 13,470 12,320 11,330	34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000 12,800 11,700 10,700	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400	16,800 15,400 14,000 12,800 11,700 10,700 10,000	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 65.0 70.0 75.0 80.0 85.0 90.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.3 62.0 59.6 57.2 54.7 52.2	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 11,960 16,150 14,630 13,310 12,160 11,170	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 117,810 16,000 14,480 13,160 12,010 11,000 10,110	23,700 20,900 18,600 15,000 13,700 12,300 11,300 10,400 9,500	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 69.4 662.1 59.6 57.0 54.3 51.5 48.6 45.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 22,790 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440	34,600 32,500 27,800 24,200 11,700 14,000 12,800 11,700 10,700 9,900	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 66.5 66.3 62.0 59.6 57.2 54.7 52.2 49.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 12,680 22,680 20,100 11,960 16,150 14,630 13,310 12,160 11,170 10,290	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 9,400	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 95.0 100.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 117,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320	23,700 20,900 18,600 16,600 11,700 12,300 11,300 10,400 9,500 8,700	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 22,790 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670	34,600 32,500 27,800 24,200 19,000 11,700 12,800 11,700 10,700 9,900 9,200	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 95.0 100.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.3 62.0 59.6 57.2 54.7 52.2 49.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 12,680 22,680 22,680 11,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500	2 4,100 21,200 18,800 15,100 12,500 11,500 10,600 9,800 9,000	22,300 19,700 17,700 15,800 14,400 13,100 11,000 10,100 9,400 8,700	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,300	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 65.0 77.0 80.0 85.0 99.0 95.0 100.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 66.1 66.1 59.6 57.4 55.1 52.7 50.3 47.7	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640	23,700 20,900 18,600 16,600 13,700 12,300 11,300 10,400 9,500 8,700 8,100	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 69.4 662.1 59.6 57.0 54.3 51.5 48.6 45.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 22,790 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440	34,600 32,500 27,800 24,200 11,700 14,000 12,800 11,700 10,700 9,900	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	81.9 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 66.5 66.3 62.0 59.6 57.2 54.7 52.2 49.5	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 12,680 22,680 20,100 11,960 16,150 14,630 13,310 12,160 11,170 10,290	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 9,400	2 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 95.0 100.0	81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2 68.2 66.1 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1	30 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 117,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320	23,700 20,900 18,600 16,600 11,700 12,300 11,300 10,400 9,500 8,700	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400	2 Degree Machine List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 99.0 100.0 105.0 115.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6 57.2 54.7 52.2 49.5 40.8 37.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170 7,620	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 14,400 13,100 11,000 10,100 9,400 8,700 8,100 7,500 7,000	15,700 14,900 13,600 12,400 10,600 9,700 8,900 8,300 7,700 7,200 6,800	Radius (ft) 26.0 28.0 30.0 33.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 105.0 110.0 115.0 120.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000 7,420 6,920	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100 6,600	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 105.0 110.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 66.5 57.2 54.7 52.2 49.5 40.8	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 11,960 116,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700	22,300 19,700 17,700 15,800 14,400 13,100 11,000 11,000 9,400 8,700 8,100 7,500	15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,300 7,700 7,200	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,100 9,320 8,640 8,000 7,420 6,920 6,450	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300 5,800	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100 5,700
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 99.0 100.0 105.0 115.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6 57.2 54.7 52.2 49.5 40.8 37.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170 7,620	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 14,400 13,100 11,000 10,100 9,400 8,700 8,100 7,500 7,000	15,700 14,900 13,600 12,400 10,600 9,700 8,900 8,300 7,700 7,200 6,800	Radius (ft) 26.0 28.0 30.0 33.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 105.0 110.0 115.0 120.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000 7,420 6,920	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100 6,600	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Research Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 65.1 59.6 45.6 45.6 42.4 39.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990	34,600 32,500 27,800 24,200 11,700 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Radius (ft) 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 99.0 100.0 105.0 115.0	81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6 57.2 54.7 52.2 49.5 40.8 37.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170 7,620	2 4,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 14,400 13,100 11,000 10,100 9,400 8,700 8,100 7,500 7,000	15,700 14,900 13,600 12,400 10,600 9,700 8,900 8,300 7,700 7,200 6,800	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0	Boom Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 50.3 47.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,100 9,320 8,640 8,000 7,420 6,920 6,450	23,700 20,900 18,600 16,600 11,300 10,400 9,500 8,700 8,100 7,500 7,100 6,600	19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300 5,800	13,700 13,100 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100 5,700

CK850G SPECIFICATIONS

Barge

5 Counterweights (57,600 lbs) - 2 Carbody weights (14,400 lbs) - Crawlers in extended position.

	160)' Boor	n				170)' Boo	m				180)' Boo	m		
			0° Rated	Load (lb	os)		.,			d Load (lb	ıs)				60° Rated	d Load (II	os)
Load		0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List
28.0	81.5	44,090 *				28.0	82.0	38,800 *				30.0	81.8	33,730 *			
30.0 32.0	80.7 80.0	43,430 * 42,760 *				30.0 32.0	81.3 80.6	38,130 * 37,470 *				32.0 34.0	81.1 80.5	33,060 * 32,620 *			
34.0	79.3	42,100 *				34.0	79.9	37,030 *				36.0	79.8	31,960 *			
36.0	78.6	40,520				36.0	79.2	36,370 *				38.0	79.2	31,520*			
38.0 40.0	77.8 77.1	37,560 34,980				38.0 40.0	78.6 77.9	35,710 * 34,780				40.0 45.0	78.5 76.9	31,080 * 29,250			
45.0	75.2	29,710				45.0	76.1	29,510				50.0	75.3	25,220			
50.0	73.4	25,680				50.0	74.4	25,460				55.0	73.6	22,000			
55.0	71.5 69.6	22,480 19,880	20,800 18,400	17,100		55.0 60.0	72.6 70.8	22,260 19,660	20,500 18,100	15,700		60.0	72.0 70.3	19,400 17,260	17,800 15,900	13,700	
60.0 65.0	67.7	17,720	16,400	15,400		65.0	69.1	17,520	16,100	15,000		70.0	68.6	15,450	14,300	13,100	
70.0	65.7	15,930	14,800	14,000	12,000	70.0	67.2	15,710	14,500	13,700		75.0	66.8	13,910	12,800	11,900	9,300
75.0	63.7	14,390	13,400	12,700	11,600	75.0	65.4	14,170	13,100	12,400	10,400	80.0	65.1	12,560	11,700	10,800	9,000
80.0 85.0	61.7 59.7	13,070 11,920	12,200 11,100	11,500 10,500	10,900 9,900	80.0 85.0	63.5 61.6	12,850 11,680	11,900 10,800	11,200 10,300	10,200 9,600	85.0 90.0	63.3 61.5	11,410 10,400	10,600 9,600	10,000 9,100	8,800 8,500
90.0	57.6	10,910	10,100	9,700	9,200	90.0	59.7	10,670	9,900	9,400	8,900	95.0	59.7	9,500	8,800	8,300	7,800
95.0	55.4	10,000	9,300	8,800	8,500	95.0	57.7	9,780	9,100	8,600	8,200	100.0	57.8	8,700	8,100	7,600	7,200
100.0 105.0	53.2 50.9	9,210 8,500	8,700 8,000	8,200 7,500	7,900 7,200	100.0 105.0	55.7 53.6	8,990 8,260	8,400 7,800	7,900 7,200	7,600 6,900	105.0 110.0	55.9 54.0	8,000 7,340	7,300 6,800	7,000 6,400	6,600 6,100
110.0	48.6	7,870	7,400	7,100	6,700	110.0	51.5	7,620	7,100	6,800	6,400	115.0	52.0	6,760	6,200	5,900	5,600
115.0	46.1	7,290	6,800	6,500	6,300	115.0	49.3	7,050	6,600	6,200	6,000	120.0	49.9	6,230	5,700	5,500	5,100
120.0 125.0	43.6 40.9	6,760 6,280	6,400 6,000	6,000 5,600	5,800 5,400	120.0 125.0	47.0 44.7	6,520 6,040	6,100 5,600	5,700 5,300	5,600 5,100	125.0 130.0	47.8 45.6	5,700 5,220	5,300 4,800	4,800 4,600	4,600 4,200
130.0	38.1	5,860	5,500	5,300	5,000	130.0	42.2	5,570	5,200	4,900	4,700	135.0	43.3	4,780	4,400	4,200	3,900
135.0	35.0	5,440	5,100	5,000	4,600	135.0	39.6	5,150	4,800	4,500	4,300	140.0	40.9	4,380	4,000	3,800	3,600
140.0	31.8	5,070		4,500	4,400	140.0	36.9 34.0	4,760 4,380	4,400 4,100	4,200 3,800	3,900 3,700	145.0 150.0	38.4 35.8	4,030 3,680	3,600 3,400	3,500 3,200	3,200 3,000
						150.0	30.8	4,050	4,100	3,800	3,500	155.0	33.0	3,370	3,100	2,900	2,800
Ree	eves	4	2	2	2	Ree	eves	4	2	2	2	Ree	eves	2	2	2	2
	190)' Booi	n				200)' Boo	m								
	190	36	n 50° Rated	l Load (lb	os)		200			d Load (lb	s)			3	60° Rated	d Load (II	os)
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List		Load (Ib 2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)			d Load (Ib 2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree	60° Rateo 1 Degree Machine List	d Load (II 2 Degree Machine List	2 Degree Machine List
Radius (ft) 32.0	Boom Angle (deg.) 81.6	O Degree Machine List 29,540 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0	Boom Angle (deg.) 81.4	0 Degree Machine List 25,790 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0	Boom Angle (deg.) 81.6 81.0	0 Degree Machine List 29,540 * 28,880 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0	Boom Angle (deg.) 81.4 80.9	0 Degree Machine List 25,790 * 25,350 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0	Boom Angle (deg.) 81.6	O Degree Machine List 29,540 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0	Boom Angle (deg.) 81.4	0 Degree Machine List 25,790 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6	0 Degree Machine List 29,540 * 28,880 * 27,990 * 27,550 * 26,450 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 *	60° Rateo	2 Degree Machine	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510	1 Degree Machine List	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3	3 0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150	1 Degree Machine List	2 Degree Machine List	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0	80.4 79.8 77.6 76.1 74.5 72.9 71.3	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350	1Degree Machine List	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320	1 Degree Machine List	2 Degree Machine List	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510	1 Degree Machine List	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3	3 0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150	1 Degree Machine List	2 Degree Machine List	2 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 60.0 70.0 75.0 80.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 11,350 115,540 13,990 12,650	16,800 15,600 14,200 11,600	2 Degree Machine List 11,700 11,100 10,600	2 Degree Machine List 8,100 7,900	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 15,320 13,770 12,430 11,260	10-gree Machine List 14,100 13,200 12,400 11,300 10,400	2 Degree Machine List 10,200 9,600 9,100 8,600	2 Degree Machine List 6,800 6,600	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.6 81.0 80.4 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8	0 Degree Machine List 29,540 * 28,880 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500	16,800 15,600 14,200 12,800 10,700	2 Degree Machine List 11,700 11,100 10,600 9,900	2 Degree Machine List 8,100 7,900 7,700	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250	14,100 13,200 12,400 11,300 9,400	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100	2 Degree Machine List 6,800 6,600 6,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 60.0 70.0 75.0 80.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 11,350 115,540 13,990 12,650	16,800 15,600 14,200 11,600	2 Degree Machine List 11,700 11,100 10,600	2 Degree Machine List 8,100 7,900	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 15,320 13,770 12,430 11,260	10-gree Machine List 14,100 13,200 12,400 11,300 10,400	2 Degree Machine List 10,200 9,600 9,100 8,600	2 Degree Machine List 6,800 6,600	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0	81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7	0 Degree Machine List 29,540 * 28,830 * 28,430 * 27,950 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 11,500 10,470 9,560 8,770	16,800 15,600 14,200 11,600 10,700 9,600 8,800 8,200	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600	8,100 7,900 7,700 7,300 6,900 6,600	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 75.0 80.0 90.0 95.0 100.0 105.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7	3 0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820	14,100 13,200 12,400 10,400 9,400 8,600 7,900 7,300	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	81.6 81.0 80.4 79.8 77.6 76.1 74.5 72.9 68.1 66.5 64.8 63.2 61.4 59.7 57.9	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,950 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 11,470 9,560 8,770 8,040	16,800 15,600 14,200 11,600 11,600 11,600 11,600 11,600 11,600 11,700 9,600 8,800 8,200 7,500	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,000	2 Degree Machine List 8,100 7,900 7,700 7,300 6,900 6,600 6,300	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 77.0 80.0 85.0 90.0 95.0 100.0 110.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1	3 0 Degree Machine List 25,790 * 25,350 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160	14,100 13,200 12,400 10,400 9,400 8,600 7,900 7,300 6,600	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0	81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7	0 Degree Machine List 29,540 * 28,830 * 28,430 * 27,950 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 11,500 10,470 9,560 8,770	16,800 15,600 14,200 11,600 10,700 9,600 8,800 8,200	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600	8,100 7,900 7,700 7,300 6,900 6,600	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 65.0 67.0 75.0 80.0 90.0 95.0 100.0 105.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7	3 0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820	14,100 13,200 12,400 10,400 9,400 8,600 7,900 7,300	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 115.0 120.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 59.7 56.1 54.3 52.4	0 Degree List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 9,560 8,770 9,560 8,770 8,040 7,400 6,810 6,280	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,000 6,500 5,900 5,400	8,100 7,900 7,700 7,300 6,600 6,300 5,800 5,400 5,000	Radius (ft) 34.0 36.0 38.0 44.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 91.0 105.0 115.0 115.0 125.0	Boom Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 56.3 54.6 52.8	30 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440	14,100 13,200 12,400 11,300 10,400 9,400 8,600 6,600 6,000 5,400 5,000	2 Degree Machine List 10,200 9,600 9,100 8,600 7,600 7,600 6,600 6,000 5,600 5,000 4,500	6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200 3,800	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 77.6 77.6 77.6 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 56.1 54.3 52.4 50.5	0 Degree List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,600 6,500 5,900 5,400 5,000	8,100 7,900 7,700 7,300 6,600 6,600 6,300 5,400 5,000 4,600	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 99.0 110.0 115.0 125.0 130.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 54.6 52.8 51.0	30 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 6,600 6,000 5,400 5,000 4,600	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,600 6,600 6,000 5,600 5,000 4,500 4,100	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200 3,800 3,600	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 38.0 40.0 45.0 50.0 65.0 66.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 111.5 112.0 125.0 130.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 77.6 77.6 77.6 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 55.7 55.1 52.4 50.5 48.5	0 Degree List 29,540 * 28,880 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 7,500 6,900 6,300 5,800 5,200 4,800	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,600 7,600 6,500 5,900 5,400 5,000 4,600	8,100 7,900 7,700 7,300 6,900 6,300 5,800 5,000 4,600 4,200	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 110.0 1120.0 125.0 133.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 54.6 52.8 51.0 49.1	30 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 6,600 6,000 5,400 5,000 4,600 4,100	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 6,000 6,000 5,600 4,500 4,100 3,700	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200 3,800 3,600 3,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0 115.0 125.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 77.6 77.6 77.6 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 56.1 54.3 52.4 50.5	0 Degree List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750	16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,600 6,500 5,900 5,400 5,000	8,100 7,900 7,700 7,300 6,600 6,600 6,300 5,400 5,000 4,600	Radius (ft) 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 99.0 110.0 115.0 125.0 130.0	81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 54.6 52.8 51.0	30 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 6,600 6,000 5,400 5,000 4,600	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,600 6,600 6,000 5,600 5,000 4,500 4,100	2 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200 3,800 3,600	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 32.0 34.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0 133.0 140.0 145.0	Boom Angle (deg.) 81.6 81.0 80.4 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 59.7 57.9 56.1 54.3 52.4 59.7 54.3 42.1	0 Degree Machine List 29,540 * 28,8430 * 28,430 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,400 4,010	16,800 15,600 11,600 15,600 14,200 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,400 3,900 3,600	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,000 6,500 5,900 5,400 5,000 4,600 4,200 3,700 3,500	8,100 7,900 7,700 7,300 6,900 6,600 6,300 5,800 5,400 5,000 4,600 4,200 3,800 3,500 3,200	Radius (ft) 34.0 36.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 125.0 130.0 135.0 145.0 145.0	Boom Angle (deg.) 81.4 80.9 80.3 77.82 76.8 75.3 73.8 72.3 70.8 69.3 67.7 58.1 56.3 54.6 52.8 51.0 47.2 45.2 43.1	3 0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100 3,700 3,350	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,000 4,000 5,000 4,100 3,700 3,300 2,900	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600 5,000 4,500 4,100 3,700 3,400	6,800 6,600 6,200 5,900 5,500 4,200 4,200 4,200 3,600 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (t) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 80.0 95.0 100.0 115.0 125.0 125.0 135.0 140.0 145.0 150.0	Boom Angle (deg.) 81.6 81.0 80.4 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.8 63.2 61.4 59.7 57.9 56.1 54.3 52.4 40.4 44.3 42.1 39.8	0 Degree Machine List 29,540 * 28,880 * 28,430 * 27,950 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,400 4,010 3,680	16,800 15,600 15,600 14,200 11,600 11,600 11,600 11,600 11,600 10,700 9,600 8,200 7,500 6,900 6,300 5,200 4,800 4,400 3,900 3,600 3,300	2 Degree Machine List 11,700 11,100 11,100 10,600 9,900 8,200 7,600 7,000 6,500 5,900 5,400 4,600 4,600 4,200 3,700 3,500 3,100	8,100 7,900 7,700 6,900 6,600 6,300 5,800 5,400 5,000 4,600 4,200 3,800 3,500 3,200 2,900	Radius (ft) 34.0 36.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 130.0 135.0 136.0 145.0	Boom Angle (deg.) 81.4 80.9 80.3 77.8.2 76.8 75.3 70.8 69.3 67.7 58.1 56.3 54.6 52.8 51.0 49.1 47.2 45.2	30 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,960 4,960 4,100 3,700	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,400 4,100 3,700 3,300	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,000 4,500 4,100 3,700 3,400 3,000	6,800 6,600 6,200 5,900 5,500 4,200 4,200 4,200 3,600 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
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Radius (t) 32.0 34.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 130.0 145.0 145.0 155.0 160.0 155.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 64.8 65.9 757.9 56.1 54.3 52.4 50.5 48.5 46.4 44.1 39.8 37.4 34.8	0 Degree List 29,540 * 28,830 * 28,430 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,010 3,680 3,350	16,800 15,600 14,200 12,800 11,600 11,600 11,600 11,600 11,600 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,400 3,600 3,300 3,000	2 Degree Machine List 11,700 11,100 11,100 10,600 9,900 8,200 7,600 7,000 6,500 5,900 5,000 4,600 4,200 3,700 3,500 3,100 2,900	8,100 7,900 7,700 6,900 6,600 6,300 5,800 5,400 5,000 4,600 4,200 3,800 3,500 3,200 2,900	Radius (ft) 34.0 36.0 38.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 130.0 135.0 145.0 155.0	Boom Angle (deg.) 81.4 80.9 80.3 77.82 76.8 75.3 73.8 72.3 70.8 69.3 67.7 58.1 56.3 54.6 52.8 51.0 47.2 45.2 43.1	3 0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100 3,700 3,350	14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,000 4,000 5,000 4,100 3,700 3,300 2,900	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,000 4,500 4,100 3,700 3,400 3,000	6,800 6,600 6,200 5,900 5,500 4,200 4,500 4,200 3,600 3,600 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine

Refer to notes on page 31.

CK850G SPECIFICATIONS

NOTES
547. %

CK850G SPECIFICATIONS

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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Hydraulic Crawler Crane



850G

Max. Lifting Capacity: 170,000 lbs x 11.0 ft

Max. Crane Boom Length: 200 ft

Max. Fixed Jib Combination: 180 ft + 60 ft







CK850G CONTENTS

5

- 3 SPECIFICATIONS
 - **6** BOOM AND JIB ARRANGEMENTS

GENERAL DIMENSIONS

- 7 WORKING RANGES
- 10 SUPPLEMENTAL DATA
- 11 LIFTING CAPACITY
- 19 TRANSPORTATION PLAN
- 21 PARTS AND ATTACHMENTS

SPECIFICATIONS



Power Plant

Model: HINO J08E-UV

Type: 4 cycle, water-cooled, vertical in-line 6, direct injection,

turbo-charger, intercooler

Complies with US EPA Tier Interim Tier IV and NRMM

(Europe) Stage IIIB

Displacement: 469 cu in (7.684 liters)

Rated Power: 285 HP/2,100 rpm (213 kW/2,100 min⁻¹) **Max. torque:** 750 lbf·ft /1,600 rpm (1,017 N·m/1,600 min⁻¹)

Cooling system: Water-cooled

Starter: 24V-5kW

Radiator: Corrugated type core, thermostatically controlled Air cleaner: Dry type with replaceable paper element Throttle: Twist grip type hand throttle, electrically actuated

Fuel filter: Replaceable paper element

Batteries: Two 12V x 136 Ah/5HR capacity batteries, series con-

nected

Fuel tank capacity: 106 US gal. (400 liters)



Hydraulic System

Main pumps: 3 variable displacement piston pumps

Control: Full-flow hydraulic control system for infinitely variable pressure to all winches, propel and swing. Controls respond instantly to the touch, delivering smooth function operation.

Cooling: Oil-to-air heat exchanger (plate-fin type)

Filtration: Full-flow and bypass type with replaceable element **Electrical system:** All wiring corded for easy servicing, individual fused branch circuits.

Max. relief valve pressure:

Load hoist, boom hoist and propel system:

4,626 psi (31.9 MPa)

Swing system: 3,989 psi (27.5 MPa) Control system: 783 psi (5.4 MPa)

Hydraulic tank capacity: 116.2 US gal. (440 liters)



Boom Hoisting System

Powered by a hydraulic motor through a planetary reducer. **Brake:** A spring-set, hydraulically released multiple-disc brake is mounted on the boom hoist motor and operated through a counter-balance valve.

Drum lock: External ratchet for locking drum

Drum: Single drum, grooved for 5/8 inch dia. wire rope

Line speed: Single line on first drum layer **Hoisting/Lowering:** 230 to 6.6 ft/min

Diameter of wire rope

Main winch: 7/8 in. x 869 ft. (22 mm x 220 m) **Aux. winch:** 7/8 in. x 673 ft. (22 mm x 130 m) **Third winch:** 7/8 in. x 476 ft. (22 mm x 145 m)

Boom hoisting/lowering: 5/8 in. x 492 ft (16 mm x 150 m)

Boom guy line: 1-3/16 in. (30 mm)

Boom backstops: Required for all boom length



Load Hoist System

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

Negative brake: A spring-set, hydraulically released multipledisc brake is mounted on the hoist motor and operated through a counter-balance valve. (Positive free fall brake is optional)

Drum lock: External ratchet for locking drum

Drums:

Front drums:

1ft 9-21/32 inch (550 mm) P.C.D x 1ft 9-15/32 inch (545 m) Lg., grooved for 7/8 inch (22 mm) wire rope. Rope capacity is 869ft (265 m) working length and 1,099ft (335 m) storage length.

Rear drums:

1ft 9-21/32 inch (550 mm) P.C.D x 1ft 9-15/32 inch (545 m) Lg., grooved for 7/8 inch(22 mm) wire rope. Rope capacity is 673 ft (205 m) working length and 1,099ft (335m) storage length.

Line speed: Single line on the first layer **Hoisting/Lowering:** 394 to 10 ft

Line pull:

Max. line pull (Single line): 34,400 lbs (153 kN)

Rated line pull: 17,000 lbs (78.5 kN)



Swing System

Swing unit is powered by hydraulic motor driving spur gears through planetary reducers (2 set), the swing system provides 360° rotation.

Swing parking brakes: A spring-set, hydraulically released multiple-disc brake is mounted on swing motor.

Swing circle: Single-row ball bearing with an integral internally cut swing gear.

Swing lock: Manually, four position lock for transportation

Swing speed: 4.0 rpm (min⁻¹)



Upper Structure

Torsion-free precision machined upper frame. All components are located clearly and service friendly. Engine will with low noise level.

Counter weight: 57,800 lbs



Cab & Control

Totally enclosed, full vision cab with safety glass, fully adjustable, high backed seat with a headrest and armrests, and intermittent wiper and window washer (skylight and front window).

Cab fittings:

Air conditioner, convenient compartment (for tool), cup holder, ashtray, cigarette lighter, sun visor, roof blind, tinted glass, floor mat, footrest, shoe tray, and foot acceleration pedal.

Controls:

Four adjustable levers for front drum, rear drum, boom drum and swing controls.



Lower Structure

Steel-welded carbody with axles. Crawler assemblies are designed with quick disconnect feature for individual removal as a unit from axles. Crawler belt tension is maintained by hydraulic jack force on the track adjusting bearing block.

Carbodyweight: 14,300 lbs

Crawler drive: Independent hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor propelling a driving tumbler through a planetary gear box. Hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes: Spring-set, hydraulically released parking brakes are built into each propel drive.

Steering mechanism: A hydraulic propel system provides both skid steering (driving one track only) and counter-rotating steering (driving each track in opposite directions).

Track rollers: Sealed track rollers for maintenance-free operation.

Shoe (flat): 3 ft wide each crawler

Max. travel speed: 1.07/0.71 mph (1.73/1.15 km/h)

Max. gradeability: 40%



Weight

Including upper and lower machine, 57,800 lbs counterweight and 14,300 lbs carbody weight, basic boom (or basic boom + basic jib), hook, and other accessories.

Weight: 165,600 lbs (75.1 t)

Ground pressure: 10.8 psi (84.7 kPa)



Attachment

Boom and Jib:

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

Boom and Jib Length

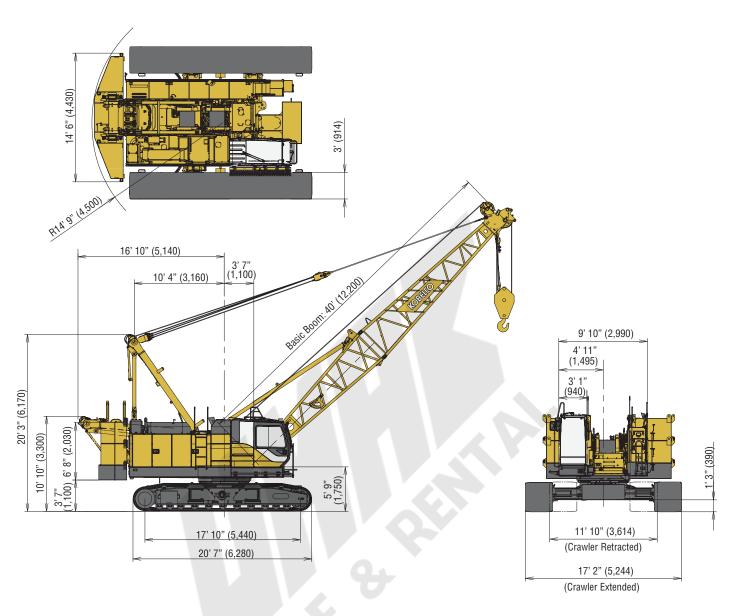
	Min. Length	Max. Length			
	(Min. Combination)	(Max. Combination)			
Crane Boom	40 ft	200 ft			
Fixed Jib	80 ft + 30 ft	180 ft + 60 ft			

Main Specifications (Model: CK850G)				
Crane Boom				
Max. Lifting Capacity	170,000 lbs			
Length	40 ~ 200 ft			
Fixed Jib				
Max. Lifting Capacity	24,000 lbs			
Max. Length	60 ft			
Max. Combination	180 ft + 60 ft			
Power Plant				
Model	HINO J08E-UV			
Engine Output	285 HP/2,100 rpm			
Fuel Tank Capacity	106 US gal. (400 liters)			
Main & Aux. Winch				
Max. Line Speed	390 ft/min (120 m/min): 1st layer			
Rated Line Pull (single Line)	17,000 lbs (78.5 kN)			
Wire Rope Diameter	7/8 in (22 mm)			
Brake Type	Spring set hydraulically released (Negative)			

Working Speed					
Swing Speed	4.0 rpm (min ⁻¹)				
Travel Speed	1.07/0.71 mph				
Hydraulic System					
Main pumps	3 variable displacement				
Max. Pressure	4,626 psi (31.9 MPa)				
Hydraulic Tank Capacity	116.2 US gal. (440 liters)				
Weight					
Operating Weight	165,600 lbs (75.1 t)				
Ground Pressure	10.8 psi (84.7 kPa)				
Counterweight	57,800 lbs				
Transport Weight	91,677 lbs				

GENERAL DIMENSIONS

Unit: ft-in (mm)



BOOM AND JIB ARRANGEMENTS

Crane Boom Arrangements

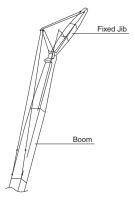
Boom length ft (m)	Boom arrangement
40 (12.2)	
50 (15.2)	<u>□10</u> 1 →
60 (18.3)	* B1010F
70 (21.3)	※ ●10 20 1
80 (24.4)	# 10 10 20 T
90 (27.4)	★ ■ 10 20 20 F ■ 10 40A
100 (30.5)	# E 10 10 20 20 T
110 (33.5)	★ ■ 10 20 40A T → 10 10 10 10 10 10 10 10
120 (36.6)	** B 10 10 20 40A F B 40 40A F B 20 20 40A F
130 (39.6)	★ ■ 10 20 20 40A T → 10 40 40A T → 10 40A 40A T → 10 40A 40A T → 10 40A 40
140 (42.7)	

Boom length ft (m)	Boom arrangement
150 (45.7)	
160 (48.8)	** B 10 10 20 40 40A T B 20 20 40 40A T B 40 40 40A T
170 (51.8)	★ ■ 10 20 20 40 40A F ■ 10 40 40
180 (54.9)	№ ■ 10 10 20 20 40 40A T ■ 10 10 10 40 40 40A T ■ 20 40 40 40A T
190 (57.9)	※ ■ 10 20 40 40 40 40 40 1 40 1 40 1 40 1 4
200 (61.0)	

Symbol	Boom Length	Remarks
B	20.0 ft (6.1 m)	Boom Base
	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.

Fixed Jib Arrangements

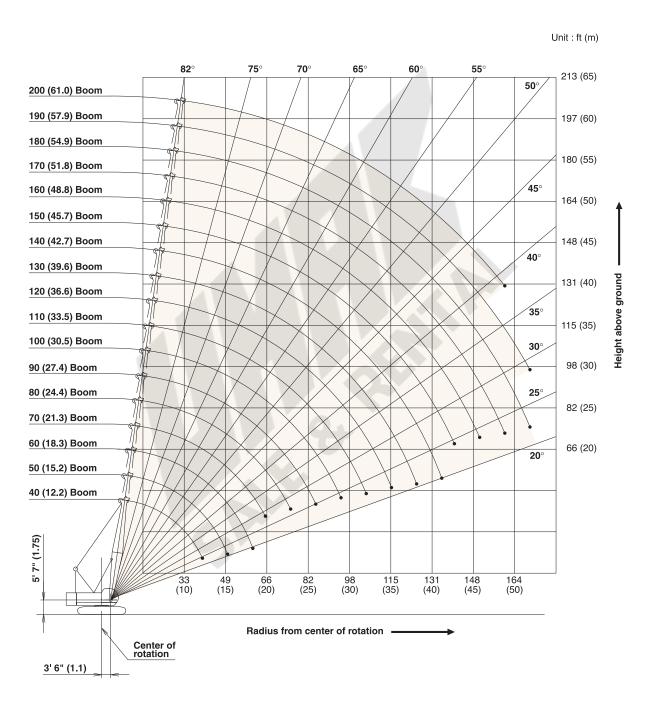


Crane boom length	Jib length ft (m)	Jib arrangement
	30 (9.1)	BIT
80 ft (24.4 m)	40 (12.2)	<u> </u>
180 ft (54.9 m)	50 (15.2)	B 20 T
	60 (18.3)	B 20 10 T

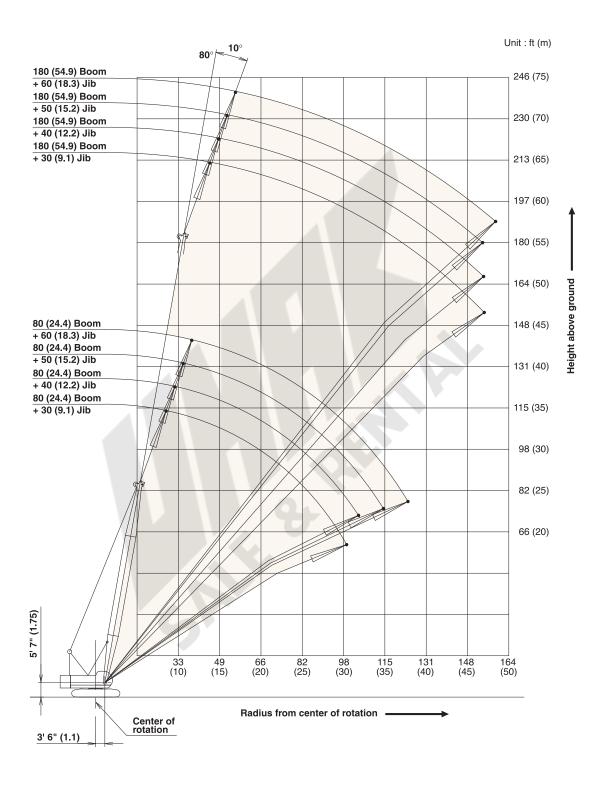
Symbol	Jib Length	Remarks		
В	15 ft (4.6 m)	Jib Base		
	15 ft (4.6 m)	Jib Top		
10	10 ft (3.0 m)	Insert Jib		
20	20 ft (6.1 m)	Insert Jib		

WORKING RANGES

Main Boom

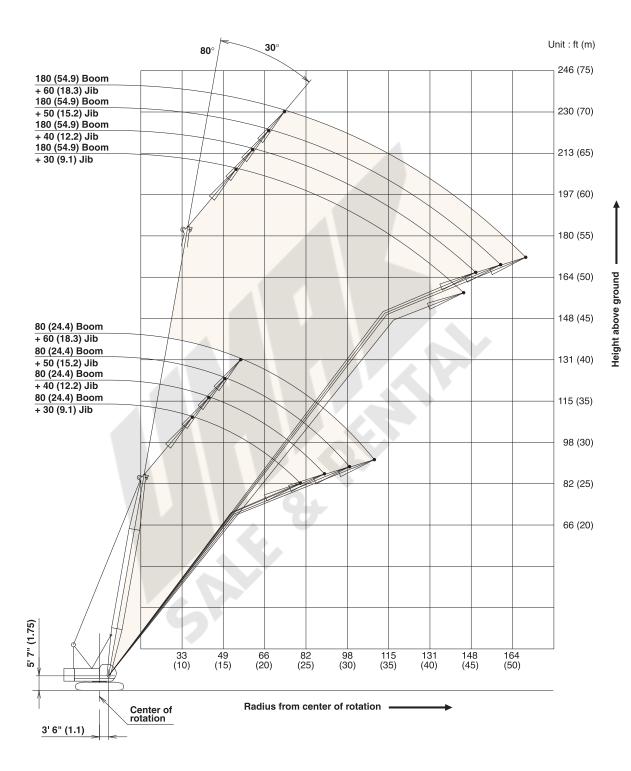


Fixed Jib 10°



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).
- Rated loads do not exceed 75% of minimum tipping loads.
 Rated loads based on factors other than machine stability as structural competence are shown by asterisk * in the charts.
- The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - Boom backstops are required for all boom lengths.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - The crane must be leveled to within 1% on a firm supporting surface.
- 4. Do not attempt to lift where no ratings are shown as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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.
- When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib length	Aux.	30'	40'	50'	60'
Deduct (lbs)	320	2,400	3,200	4,200	5,200

- 8. The total load that can be lifted over a jib is limited by rated jib loads.
- 9. Boom lengths for jib mounting are 80 ft (24.4 m) to 180 ft (54.9 m).
- 10. The total load that can be lifted over an auxilialy sheave is the value for 320 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 17,000 lbs.

- 11. Boom lengths that can attach auxilialy 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 erecting and lowering the boom at length of 180 ft (54.9 m) with jib, the blocks for erection must be placed at the end of the crawlers.
- 13. Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

Main Boom Hoist Loads

No. of Parts of Line	1	2	3	4	5
Maximum Loads (lbs)	17,000	34,000	51,000	68,000	85,000
No. of Parts of Line	6	7	8	9	10
Maximum Loads (lbs)	102,000	119,000	136,000	153,000	170,000

Jib Hoist Loads

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

Auxiliary Hoist Loads

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

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

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

LIFTING CAPACITY

M Crane Boom Lifting Capacity

Unit: lbs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

		_			_			_						_
40	' Boo	om	50	' Boc	om	60	' Boo	om	70	' Boo	om	80	' Boo	om
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius	Angle	Rated Load			Rated Load		Angle	Rated Load		Angle	Rated Load		Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
10.0	81.7	170,000 *	12.0	81.1	166,400 *	13.0	81.6	154,200 *	14.0	82.0	143,600 *	16.0	81.6	126,300 *
11.0	80.3	170,000 *	13.0	79.9	154,400 *	14.0	80.7	143,800 *	15.0	81.2	134,500 *	17.0	80.8	119,100 *
12.0	78.8	166,600 *	14.0	78.8	144,000 *	15.0	79.7	134,700 *	16.0	80.3	126,500 *	18.0	80.1	112,600 *
13.0	77.4	154,600 *	15.0	77.6	134,900 *	16.0	78.7	126,700 *	17.0	79.5	119,300 *	19.0	79.4	105,290
14.0 15.0	75.9 74.4	144,200 * 135,100 *	16.0 17.0	76.4 75.2	126,900 * 119,700 *	17.0 18.0	77.7 76.8	119,500 * 113,000 *	18.0 19.0	78.7 77.8	112,800 * 105,400	20.0 22.0	78.6 77.2	96,930 83,550
16.0	72.9	127,100 *	18.0	74.0	113,700	19.0	75.8	105,460	20.0	77.0	97,060	24.0	75.7	73,320
17.0	71.4	119,900 *	19.0	72.8	105,660	20.0	74.8	97,130	22.0	75.3	83,700	26.0	74.2	65,230
18.0	69.9	113,400 *	20.0	71.6	97,350	22.0	72.8	83,790	24.0	73.6	73,470	28.0	72.7	58,680
19.0	68.3	105,820	22.0	69.2	84,010	24.0	70.8	73,560	26.0	71.9	65,380	30.0	71.2	53,260
20.0	66.7	97,500	24.0	66.7	73,810	26.0	68.7	65,490	28.0	70.1	58,840	32.0	69.7	48,690
22.0	63.6	84,190	26.0	64.2	65,760	28.0	66.6	58,970	30.0	68.4	53,430	34.0	68.1	44,840
24.0	60.3	74,000	28.0	61.6	59,230	30.0	64.5	53,570	32.0	66.6	48,890	36.0	66.6	41,490
26.0	56.9	65,980	30.0	58.9	53,850	32.0	62.4	49,030	34.0	64.8	45,030	38.0	65.0	38,580
28.0 30.0	53.4 49.7	59,480	32.0 34.0	56.2 53.3	49,310 45,480	34.0 36.0	60.2 58.0	45,170 41,840	36.0 38.0	63.0 61.1	41,680 38,800	40.0 45.0	63.4 59.3	36,020 30,820
32.0	45.7 45.7	54,100 49,580	36.0	50.4	4 3,460 42,150	38.0	55.7	38,950	40.0	59.2	36,240	50.0	55.0	26,820
34.0	41.5	45,740	38.0	47.3	39,280	40.0	53.3	36,410	45.0	54.3	31,040	55.0	50.5	23,670
36.0	36.9	42,460	40.0	44.1	36,750	45.0	47.0	31,230	50.0	49.0	27,070	60.0	45.6	21,140
38.0	31.6	39,590	45.0	34.9	31,590	50.0	40.0	27,290	55.0	43.3	23,960	65.0	40.3	19,060
40.0	25.5	34,830 *	50.0	22.7	26,890 *	55.0	31.7	24,200	60.0	36.9	21,450	70.0	34.4	17,350
						60.0	20.6	21,600 *	65.0	29.3	19,420	75.0	27.3	15,890
		10	Ree		10	Ree		10	Ree		9	Ree		8
Ree	ves	1 10	ı nee	ves	10	ı nee	VES			VES	9			
										_				_
90	' Boo	om		0' Bo)' Bo	om		o' Bo	om)' Bo	_
Load	Boom	om 360°	100 Load	0' Bo	om 360°	110 Load	D' Bo Boom	om 360°	120 Load	D' Bo Boom	om 360°	130 Load	D' Bo Boom	om 360°
Load Radius	Boom Angle	360° Rated Load	100 Load Radius	O' Bo Boom Angle	360° Rated Load	11(Load Radius	D' Bo Boom Angle	360° Rated Load	120 Load Radius	Boom Angle	360° Rated Load	130 Load Radius	Boom Angle	360° Rated Load
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	11(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) 17.0	Boom Angle (deg.) 81.9	360° Rated Load (lbs) 118,820 *	Load Radius (ft)	Boom Angle (deg.) 81.5	360° Rated Load (lbs) 101,850 *	Load Radius (ft) 20.0	Boom Angle (deg.) 81.8	360° Rated Load (lbs) 92,590 *	Load Radius (ft)	Boom Angle (deg.) 81.5	360° Rated Load (lbs) 80,680 *	Load Radius (ft) 24.0	Boom Angle (deg.)	OM 360° Rated Load (lbs) 71,200 *
Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.2	360° Rated Load (lbs) 118,820 * 112,400 *	100 Load Radius (ft) 19.0 20.0	Boom Angle (deg.) 81.5 80.9	360° Rated Load (lbs) 101,850 * 96,800	11(Load Radius (ft) 20.0 22.0	Boom Angle (deg.) 81.8 80.7	360° Rated Load (lbs) 92,590 * 83,260	120 Load Radius (ft) 22.0 24.0	Boom Angle (deg.) 81.5 80.5	360° Rated Load (lbs) 80,680 * 72,950	130 Load Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.3 80.4	360° Rated Load (lbs) 71,200 * 64,610
Load Radius (ft) 17.0 18.0 19.0	Boom Angle (deg.) 81.9 81.2 80.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220	100 Load Radius (ft) 19.0 20.0 22.0	Boom Angle (deg.) 81.5 80.9 79.8	360° Rated Load (lbs) 101,850 * 96,800 83,400	11(Load Radius (ft) 20.0 22.0 24.0	Boom Angle (deg.) 81.8 80.7 79.7	360° Rated Load (lbs) 92,590 * 83,260 73,010	120 Load Radius (ft) 22.0 24.0 26.0	Boom Angle (deg.) 81.5 80.5 79.6	360° Rated Load (lbs) 80,680 * 72,950 64,810	Load Radius (ft) 24.0 26.0 28.0	Boom Angle (deg.) 81.3 80.4 79.5	360° Rated Load (lbs) 71,200 * 64,610 58,020
Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.2	360° Rated Load (lbs) 118,820 * 112,400 *	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.5 80.9	360° Rated Load (lbs) 101,850 * 96,800	11(Load Radius (ft) 20.0 22.0	Boom Angle (deg.) 81.8 80.7	360° Rated Load (lbs) 92,590 * 83,260	120 Load Radius (ft) 22.0 24.0	Boom Angle (deg.) 81.5 80.5	360° Rated Load (lbs) 80,680 * 72,950	130 Load Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.3 80.4	360° Rated Load (lbs) 71,200 * 64,610
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440	11(Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880	120 Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230	130 Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320	12(Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.5 80.5 79.6 77.6 76.6 75.6 74.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090	12(Load Radius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600	12(Load Radius (ft) 22.0 26.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 74.7 73.7 72.7 70.1	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 40,760 37,830 35,250 30,000 25,970
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,440 41,090 38,160 35,600 30,350	12(Load Radius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 40,980 38,050 35,470 30,220 26,210	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 41,200 38,290 35,730 30,480	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340	12(Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 50.0 55.0 60.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 71.7 69.4 67.0 64.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 41,200 38,290 35,730 30,480 26,470	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 45.0 50.0 55.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170	120 Load Radius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 69.4 67.0 64.6 62.1	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 41,200 38,290 35,730 30,480	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340	12(Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 50.0 55.0 60.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 71.7 69.4 67.0 64.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 769.3 68.0 66.6 63.0 59.4 55.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 35,890 30,660 26,670 23,520	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 45.0 50.0 65.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.8 80.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 34.0 34.0 45.0 55.0 60.0 65.0 75.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 50.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 59.6 57.0 54.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 555.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 34.0 36.0 45.0 55.0 60.0 65.0 75.0 80.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 75.0 80.0 85.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320
Load Radius (ft) 17.0 18.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 34.0 36.0 38.0 45.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 62.7 59.5 56.1 52.5 48.8 44.8	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 555.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910	12(Load Radius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 35.0 55.0 60.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 50.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 555.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 49.9 46.4 42.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800	12(Load Radius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 80.0 90.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 75.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 40.4 42.6 38.6 34.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970	12(Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 65.0 70.0 75.0 80.0 95.0 100.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 75.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 9100.0 105.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 57.0 54.3 51.5 48.6 42.4 39.0	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	12(Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 38.0 55.0 65.0 75.0 80.0 95.0 100.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 42.4 39.0 35.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 12,320 11,330 10,440 9,670 8,990 8,390
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0 65.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970	120 Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 65.0 70.0 85.0 90.0 90.0 105.0 110.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 75.6 76.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3 40.7 36.9 32.7 27.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 12,580 11,590 10,730 9,960 9,280 8,680	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 110.0 115.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 42.4 39.0 35.4 31.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0 65.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	12(Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 38.0 55.0 65.0 75.0 80.0 95.0 100.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 75.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 65.0 70.0 75.0 80.0 85.0 90.0 91.0 100.0 110.0 115.0 120.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 42.4 39.0 35.4 31.3 26.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840 7,360
Load Radius (ft) 17.0 18.0 19.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	80.6 79.9 78.6 77.3 76.0 76.7 69.3 68.0 66.6 63.0 59.4 55.6 47.4 42.9 37.9 32.3 25.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	100 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 40.6 35.9 30.6 24.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2 23.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	120 Load Radius (ft) 22.0 26.0 28.0 30.0 32.0 34.0 36.0 45.0 55.0 65.0 70.0 85.0 90.0 90.0 105.0 110.0	Boom Angle (deg.) 81.5 80.5 79.6 76.6 75.6 75.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 47.6 44.3 40.7 36.9 32.7 27.9 22.2	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 12,580 11,590 10,730 9,960 9,280 8,680	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 45.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 110.0 115.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 64.6 62.1 59.6 57.0 54.3 51.5 48.6 42.4 39.0 35.4 31.3 26.7 21.2	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840

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 P10.



Crane Boom Lifting Capacity

Unit: lbs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

140 Boom 150 Boom 160 Boom 170 Boom 180 Boom 180	4.00	N De	0.00	4.5		0.00	40			47			10		
Radius Angle Radius R															
321 796	Radius	Angle	Rated Load	Radius	Angle	Rated Load (lbs)	Radius (ft)	Angle	Rated Load	Radius	Angle	Rated Load (lbs)	Radius	Angle	Rated Load (lbs)
190' Boom 200' Boom 360' Rated Load (deg.) Mayle (lbs) Rated Load (deg.) (lbs) (lb	26.0 28.0 32.0 34.0 38.0 45.0 55.0 665.0 775.0 95.0 105.0 115.0 125.0 130	80.24 79.46 77.76.90 76.21 76.30 76.30 76.30 66.21 76.30 66.21 76.30 86.21 86.	60,840 * 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170 7,620 7,120 6,650	28.0 30.0 32.0 34.0 36.0 45.0 55.0 65.0 75.0 85.0 95.0 100.0 115.0 120.0 125.0 135.0	80.9 80.1 79.6 77.8 77.0 76.2 72.2 70.2 66.1 64.0 61.6 65.1 57.4 47.7 45.1 36.2 32.4 36.2 32.1	51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 11,000 11,000 11,000 10,110 9,320 8,640 8,000 7,420 6,920 6,450 6,920 6,450 6,040 5,660	36.0 38.0 40.0 50.0 55.0 60.0 75.0 85.0 95.0 100.0 115.0 120.0 125.0 135.0 140.0 145.0	80.0 79.3 77.7 77.1.5 67.7 77.7 77.7 65.7 77.7 65.5 50.6 65.5 50.6 40.1 35.0 835.0 835.0 835.0 835.0 835.0	43,430 * 42,760 * 40,520 37,560 34,980 29,710 25,680 19,880 17,720 15,930 14,390 10,910 10,000 9,210 8,500 7,870 7,290 6,760 6,280 5,860 5,440 5,440 5,770 4,710	30.0 32.0 34.0 36.0 38.0 45.0 55.0 65.0 70.0 75.0 85.0 90.0 90.0 115.0 120.0 125.0 135.0 140.0 145.0 155.0	81.3 80.9 779.26 779.1 74.4 72.6 67.7 69.1 665.4 555.5 551.3 47.7 44.2 396.9 34.8 327.3	37,4/00 * 37,4/00 * 36,370 * 36,370 * 35,710 * 34,780 29,510 25,460 19,660 17,520 15,710 14,170 12,850 10,670 9,780 8,990 8,260 7,620 7,620 7,620 6,520 6,040 5,570 5,150 4,380 4,380 4,380 4,360 3,760	32.0 34.0 36.0 40.0 45.0 55.0 66.0 75.0 85.0 90.0 91.0 115.0 1125.0 135.0 145.0 145.0 150.0	81.1 5.8 2.5 9.3 6.0 3.6 8.1 3.5 7.8 9.0 0.9 8.6 3.9 4.8 0.9 7.7 7.7 7.7 6.6 6.5 1.5 7.8 9.0 0.9 8.6 3.9 4.8 0.9 5.5 5.5 5.5 4.4 4.3 3.3 3.2 2.6 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5 3.5	32,620 * 31,960 * 31,960 * 31,080 * 29,250 25,220 22,000 19,400 17,260 15,450 13,910 12,560 11,410 10,400 9,500 8,700 8,700 6,760 6,760 6,230 5,700 5,220 4,780 4,780 4,030 3,680 3,370 3,100
Load Radius Radiu	\perp														
Radius Angle Raded Load (lbs) (lbs)			_				Ree	ves	4	Ree	ves	4	Ree		
34.0 81.0 28,880 * 36.0 80.9 25,350 * 38.0 80.4 28,490 * 38.0 80.3 24,910 * 40.0 79.2 27,550 * 45.0 78.2 23,380 * 45.0 77.6 26,450 * 50.0 76.1 25,300 55.0 76.3 21,380 * 55.0 74.5 22,110 66.0 72.3 17,350 70.0 66.0 72.3 117,350 70.0 76.1 15,540 75.0 69.7 15,540 75.0 69.7 15,540 75.0 69.7 15,540 75.0 69.7 15,540 75.0 69.3 13,770 70.0 69.7 15,540 75.0 69.3 13,770 70.0 69.7 15,540 75.0 69.3 13,770 88.0 66.5 12,650 85.0 66.5 11,500 90.0 64.6 11,500 90.0 64.6 11,500 90.0 64.8 11,500 90.0 64.4 8,530 100.0 59.7 8,770 105.0 59.7 7,820 110.0 55.1 7,400 115.0 56.3 6,560 110.0 55.7 9,870 105.0 59.7 7,820 110.0 56.1 7,400 115.0 56.3 6,560 115.0 48.4 6,880 120.0 52.4 6,280 125.0 50.5 5,750 130.0 51.0 4,960 120.0 52.4 6,280 125.0 50.5 5,750 130.0 51.0 4,960 120.0 130.0 48.5 5,260 135.0 49.1 4,510 140.0 44.3 4,400 145.0 45.2 3,700 140.0 34.8 4,3040 150.0 34.8 3,040 155.0 37.4 3,350 160.0 34.8 3,040 165.0 37.4 3,350 160.0 34.8 3,040 165.0 37.4 3,350 160.0 34.8 3,040 165.0 32.0 2,770 170.0 29.1 2,510			om				Ree	ves	4	Ree	ves	4	Ree		
	190 Load Radius	Boom Angle	360° Rated Load	20 Load Radius	0' Bo Boom Angle	360° Rated Load	Ree	eves	4	Ree	eves	4	Ree		

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 P10.

LIFTING CAPACITY



Fixed Jib Lifting Capacity

Unit: lbs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

	80' B	oom															
		30 f	t Jib			40 1	t Jib			<i>50</i> :	ft Jib			60 i	ft Jib		
Load		Offset An	gle (deg.	.)	(Offset An	gle (deg.)		Offset Ar	ngle (deg.	.)	(Offset Ar	ngle (deg.	.)	Load
Radius	1	0	3	30	1	0	3	30	1	0	3	30	1	0	3	30	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
30	79.3	24,000*															30
32	78.0	24,000*															32
34	77.0	24,000*			79.3	24,000*											34
36	75.9	24,000*			78.3	24,000*											36
38	74.9	24,000*	79.6	20,230*	77.4	24,000*			79.3	20,000*							38
40	73.8	24,000*	78.5	19,730*	76.4	24,000*			78.4	20,000*			79.8	18,000*			40
45	71.1	24,000*	75.7	18,600*	73.9	24,000*	79.7	15,360*	76.1	20,000*			77.7	17,940*			45
50	68.3	24,000*	72.8	17,610*	71.4	22,150*	77.1	14,480*	73.8	18,540*	4		75.6	16,330*			50
55	65.3	23,890	69.7	16,710*	68.7	20,280*	74.3	13,640*	71.3	16,950*	78.0	11,080*	73.3	14,900*			55
60	62.3	21,340	66.7	15,960*	66.1	18,800*	71.6	12,980*	68.9	15,690*	75.5	10,490*	71.2	13,750*	78.7	8,950*	60
65	59.3	19,200	63.6	15,290*	63.4	17,520*	68.8	12,360*	66.5	14,610*	73.0	9,980*	69.0	12,780*	76.4	8,480*	65
70	56.2	17,410	60.3	14,700*	60.6	16,400*	65.9	11,830*	64.0	13,660*	70.4	9,540*	66.7	11,900*	74.1	8,060*	70
75	52.8	15,780	56.7	14,150*	57.6	15,360*	62.7	11,350*	61.3	12,760*	67.6	9,100*	64.2	11,110*	71.5	7,670*	75
80	49.3	14,460	53.1	13,710*	54.6	14,520*	59.6	10,930*	58.7	12,030*	64.8	8,730*	61.9	10,440*	69.0	7,340*	80
85	45.7	13,330			51.5	13,470	56.3	10,560*	56.0	11,390*	62.0	8,420*	59.5	9,850*	66.5	7,030*	85
90 95	41.8 37.2	12,320 11,370			48.3 44.6	12,450	52.9	10,250*	53.2 50.0	10,800* 10,250*	59.0	8,130* 7,840*	57.0 54.2	9,320*	63.9 60.9	6,760* 6,500*	90 95
100	37.2 32.4	10,600			44.6	11,500 10,710			46.9	9,780*	55.6 52.3	7,640 7,620*	54.2 51.5	8,810* 8,390 *	58.1	6,280*	100
105	32.4	10,000			36.7	10,710			43.6	9,360*	32.3	7,020	48.7	8,020*	55.0	6,100*	105
110					30.7	10,000			40.0	8,990*			45.7 45.7	7,670*	51.8	5,930*	110
115									35.8	8,640*			42.3	7,340*	31.0	5,930	115
120									00.0	0,040			38.8	7,050*			120
125													35.1	6,810*			125
Reeves	2	2	-	2	2	2		1		2		1		2		1	Reeves

	90' B	oom															
		30 f	t Jib			40 f	t Jib			50 1	ft Jib			60	ft Jib		
Load		Offset An	gle (deg.)		Offset An	gle (deg.)		Offset An	igle (deg.	.)		Offset Ar	igle (deg.	.)	Load
Radius	1	0	3	0	1	10	3	80	1	0	3	30	1	0	3	30	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
32	79.1	24,000*															32
34	78.1	24,000*								_							34
36	77.1	24,000*		I 1	79.3	24,000*											36
38	76.2	24,000*			78.4	24,000*			80.0	20,000*							38
40	75.2	24,000*	79.5	20,170*	77.5	24,000*		P .	79.2	20,000*							40
45	72.7	24,000*	77.0	19,060*	75.2	24,000*			77.1	20,000*			78.6	18,000*			45
50	70.2	24,000*	74.4	18,120*	72.9	23,320*	78.2	14,810*	75.0	19,400*	70.0	44 000+	76.6	17,040*			50
55	67.5	23,690	71.6	17,210*	70.4	21,400*	75.6	14,020*	72.7	17,790*	78.9	11,300*	74.5	15,580*	70.5	0.100*	55
60 65	64.9 62.2	21,120 19,000	68.9 66.1	16,460* 15,800 *	68.1 65.6	19,880* 18,560*	73.2 70.7	13,330* 12,760*	70.5 68.3	16,510* 15,380 *	76.7 74.4	10,730* 10,250 *	72.5 70.5	14,410*	79.5 77.4	9,100* 8,660*	60 65
70	59.4	17,190	63.3	15,210*	63.2	17,370	68.1	12,760*	66.1	14,390*	72.0	9,780*	68.4	13,400* 12,520*	75.3	8,240*	70
75	56.4 56.4	17, 190 15,560	60.2	14,660*	60.4	15,740	65.3	11,720*	63.6	13,490*	69.5	9,760*	66.1	11,680*	72.9	7,870*	75 75
80	53.5	14,240	57.1	14,190*	57.8	14,410	62.5	11,720	61.3	12,720*	67.0	8,990*	64.0	11,000*	70.7	7,530*	80
85	50.4	13,090	53.9	13,330	55.1	13,240	59.7	10,930*	58.8	12,050*	64.5	8,680*	61.8	10,400*	68.4	7,230*	85
90	47.1	12,100	00.0	10,000	52.3	12,230	56.7	10,580*	56.3	11,440*	61.8	8,370*	59.5	9,850*	66.0	6,960*	90
95	43.4	11,150			49.1	11.280	53.4	10,270*	53.6	10.860*	58.9	8,110*	57.1	9,320*	63.4	6,700*	95
100	39.7	10,360			46.0	10,490		,	50.9	10,380*	56.1	7,870*	54.7	8,880*	60.9	6,480*	100
105	35.6	9,650			42.7	9,760			48.0	9,850	53.1	7,640*	52.2	8,480*	58.3	6,280*	105
110					39.1	9,120			45.0	9,210			49.6	8,110*	55.5	6,100*	110
115					35.0	8,500			41.7	8,570			46.7	7,760*	52.4	5,930*	115
120									38.2	8,040			43.8	7,450*			120
125									34.4	7,560			40.7	7,180*			125
130													37.4	6,940*			130
135													33.8	6,720*			135
Reeves	2	2	2	2	2	2		1		2		1	2	2		1	Reeves



Fixed Jib Lifting Capacity

Unit: lbs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

	100' E	Room															
	100 L		t Jib			40 :	ft Jib			50 1	t Jib			60 1	ft Jib		
Load		Offset Ar	gle (deg.)			ngle (deg.)	(Offset An	gle (deg.)	(Offset Ar		.)	Load
Radius		0	_	80		0		80		0		80		0	_	30	Radius (ft)
(ft)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	(11)
32 34 36 38 40 45 50 55 60 65 70 75 80 95 100 115 120 130 135 140	79.9 79.0 78.1 77.2 76.4 74.1 71.8 69.3 67.0 64.5 62.1 59.4 56.7 54.0 51.2 48.1 45.0 41.7 38.1 34.0	24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,450 20,870 18,730 15,290 13,970 12,830 11,810 10,070 9,360 8,730 8,130	78.0 75.7 73.2 70.7 68.2 65.7 62.9 60.2 57.4 54.5 51.2	19,480* 18,560* 17,650* 16,930* 16,260* 15,670* 15,100* 14,300 13,110 12,050 11,060	80.0 79.2 78.4 76.3 74.2 71.9 69.7 67.5 65.3 62.8 60.4 58.0 55.5 52.8 50.1 47.2 44.3 40.9 37.4 33.7	24,000* 24,000* 24,000* 24,000* 24,000* 22,480* 20,920* 18,950 17,150 15,490 14,150 13,000 11,970 11,020 9,500 8,860 8,220 7,690 7,230	79.1 76.7 74.5 72.2 69.9 67.3 64.9 62.4 59.8 56.9 54.0	15,100* 14,320* 13,660* 13,090* 12,560* 12,050* 11,640* 11,260* 10,910* 10,580* 10,310*	79.9 78.0 76.0 73.9 71.9 69.9 67.8 65.6 63.4 61.2 59.0 56.5 54.1 51.6 49.0 46.1 43.2 40.2 36.8 33.2	20,000* 20,000* 20,000* 18,580* 17,260* 16,110* 15,120* 14,170* 13,380* 12,650* 11,130 10,310 9,590 8,950 8,950 8,780 7,290 6,830 6,430	79.7 77.7 75.5 73.4 71.1 68.8 66.5 64.2 61.6 59.1 56.4 53.7	11,500* 10,950* 10,470* 10,030* 9,610* 9,230* 8,920* 8,610* 8,330* 8,090* 7,870*	79.3 77.5 75.5 73.7 71.8 69.9 67.8 65.8 63.8 61.7 59.5 57.3 55.1 52.7 50.2 47.7 45.1 42.3 39.4 35.9	18,000* 17,680* 16,200* 15,030* 13,990* 13,090* 11,550* 10,360* 9,810* 9,340* 8,920* 8,550* 8,170* 7,820 7,340 6,870 6,480 6,060	78.3 76.3 74.2 72.1 70.0 67.9 65.5 63.2 60.9 58.4 55.7 53.1	8,810* 8,420* 8,040* 7,710* 7,420* 6,670* 6,670* 6,280* 6,100* 5,950*	32 34 36 38 40 45 50 55 60 65 70 75 80 95 110 115 120 125 130 135 140
145													32.4	5,730			145
Reeves		2		2	- 4	2		1	2	2		1		2		1	Reeves
	110' E				Δ												
1			t Jib	,		40 :	ft Jib			CO 4							
Load Radius		Offset An				011 . 4		,			t Jib	`			t Jib	`	
/41	/	0	<u> </u>				ngle (deg.	,		Offset An	gle (deg.			Offset Ar	gle (deg.		Load Radius
	Room Angle	O Rated Load	3	80	1	0	ngle (deg.	30	1	Offset An	gle (deg. 3	30	1	Offset Ar	gle (deg.	30	Load Radius (ft)
	Boom Angle (deg.)		3	80	1	0	ngle (deg.	30	1	Offset An	gle (deg. 3	30	1	Offset Ar	gle (deg.	30	Radius
34		Rated Load	Boom Angle	Rated Load	Boom Angle	O Rated Load	ngle (deg. 3 Boom Angle	Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg. 3 Boom Angle	Rated Load	Boom Angle	Offset Ar O Rated Load	gle (deg. 3 Boom Angle	Rated Load	Radius

LIFTING CAPACITY



Fixed Jib Lifting Capacity

Unit: lbs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

	120 6	300m															
		30 t	t Jib			40 1	t Jib			50	ft Jib			60	ft Jib		
Load		Offset An	gle (deg	.)	(Offset An	gle (deg	.)	(Offset Ar	ngle (deg.	.)		Offset Ar	ngle (deg.	.)	Load
Radius	1	10	3	30	1	0	3	30	1	0	3	30	1	10	3	30	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
36	79.7	24,000*															36
38	79.0	24,000*															38
40	78.2	24,000*			79.9	24,000*											40
45	76.3	24,000*	79.7	20,190*	78.1	24,000*			79.5	20,000*			70.0	40.000*			45
50	74.3	24,000*	77.7	19,290*	76.2	24,000*	70.5	44.000+	77.7	20,000*			78.9	18,000*			50
55	72.2 70.2	23,100 20,520	75.6 73.5	18,450* 17,720*	74.3 72.4	23,360 20,760	78.5 76.6	14,880* 14,240*	75.9 74.2	20,000* 18,690*	79.2	11,330*	77.2 75.6	17,390* 16,180*			55
65	68.2	18,360	71.4	17,720	70.5	18,580	74.7	13,690*	72.4	17,500*	77.4	10,860*	73.0	15,120*	79.7	9.080*	65
70	66.1	16,550	69.3	16,490*	68.6	16,770	72.7	13,160*	70.6	16,440*	75.6	10,420*	72.2	14,170*	78.0	8,700*	70
75	63.9	14,920	67.0	15,340	66.5	15,100	70.6	12,670*	68.7	15,250	73.6	10,030*	70.4	13,290*	76.1	8,350*	75
80	61.7	13,600	64.8	13,970	64.5	13,770	68.5	12,250*	66.8	13,910	71.7	9,670*	68.7	12,560*	74.4	8,040*	80
85	59.5	12,430	62.6	12,780	62.5	12,610	66.4	11,860*	65.0	12,740	69.7	9,340*	67.0	11,900*	72.6	7,730*	85
90	57.3	11,410	60.2	11,720	60.5	11,570	64.3	11,500*	63.1	11,700	67.8	9,060*	65.2	11,300*	70.7	7,470*	90
95	54.8	10,470	57.7	10,730	58.2	10,620	62.0	11,130	61.0	10,730	65.6	8,770*	63.3	10,730*	68.7	7,230*	95
100	52.4	9,650	55.2	9,890	56.0	9,810	59.7	10,290	59.0	9,920	63.6	8,500*	61.5	9,980	66.8	7,010*	100
105	49.9	8,950	52.6	9,140	53.8	9,080	57.4	9,520	57.0	9,190	61.4	8,280*	59.6	9,250	64.9	6,790*	105
110 115	47.3 44.5	8,310 7.690			51.5 49.0	8,440 7,800	55.0 52.3	8,840 8,150	54.9 52.6	8,530 7,890	59.3 56.8	8,060* 7,870 *	57.7 55.6	8,590 7,950	62.9 60.7	6,610* 6,410 *	110 115
120	41.6	7,090			46.5	7,270	52.5	0,150	50.4	7,360	54.5	7,690*	53.6	7,400	58.6	6.260*	120
125	38.5	6.670			43.8	6.790			48.1	6,850	52.1	7,250	51.5	6.920	56.4	6,100*	125
130	35.3	6.230			41.1	6,320			45.7	6.410	OZ.	1,200	49.3	6.450	54.1	5.970*	130
135	31.7	5,840			38.1	5,930	4		43.1	5,990			47.1	6,040	51.7	5,860*	135
140		,			34.7	5,530			40.3	5,590			44.6	5,640		,	140
145									37.4	5,240			42.2	5,290			145
150									34.3	4,910			39.6	4,960			150
155 160						4							36.8 33.6	4,650 4,340			155
Reeves	:	2		2	2	2		1	2	2		1		2		1	Reeves

	130' E	Boom					N										
		30 f	t Jib				t Jib			50 f	t Jib			60 t	t Jib		
Load		Offset An	gle (deg.	.)		Offset An	gle (deg	.)		Offset An	gle (deg.)	(Offset An	gle (deg.	.)	Load
Radius	1	10	3	30	1	10	3	30	1	0	3	30	1	0	3	30	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
38 40 45 50 55 60 65 70 75 80 95 100 105 115 120 125	79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7 65.6 61.6 59.6 57.3 55.2 52.9 50.6 48.1 45.6 43.0	24,000* 24,000* 24,000* 24,000* 22,880 20,300 18,140 16,330 14,680 13,350 12,210 11,170 10,220 9,430 8,700 8,760 7,450 6,920 6,430	78.5 76.5 74.6 72.7 70.7 68.6 66.6 64.5 62.4 60.1 57.9 55.6 53.2	19,620* 18,780* 18,070* 17,430* 16,860 15,140 13,770 12,580 10,510 9,700 8,950 8,260	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 60.3 58.3 56.3 54.2 49.7 47.4	24,000* 24,000* 23,170 20,540 18,380 16,550 14,880 13,550 12,380 11,350 10,380 9,560 8,860 8,200 7,560 7,030 6,540	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 63.9 61.9 59.8 57.6 55.2	15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140* 11,770* 10,950 10,090 9,340 8,640 7,980 7,400	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 57.2 55.1 53.1 51.0	20,000* 20,000* 20,000* 19,330* 18,140* 16,710 15,030 12,520 11,480 10,510 9,700 8,950 8,310 7,670 7,120 6,630	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 61.4 59.2 57.1 54.9	11,480* 11,020* 10,620* 10,200* 9,5540* 9,230* 8,950* 8,700* 8,480* 8,260* 7,600 7,070	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9	18,000* 17,920* 16,710* 15,630* 14,680* 13,800* 13,950* 11,570 10,580 9,760 9,030 8,370 7,730 6,670	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 64.6 62.6 60.7 58.7	8,840* 8,480* 8,170* 7,620* 7,360* 7,140* 6,940* 6,560* 6,390* 6,230*	38 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125
130 135	40.2 37.3	5,990 5,570			45.0 42.5	6,080 5,680			48.8 46.6	6,170 5.750	52.6	6,590	52.0 50.0	6,230	56.6 54.5	6,100* 5,970*	130 135
140	37.3 33.9	5,570 5,200			42.5 39.6	5,080 5,260			46.6 44.1	5,750 5,350			47.8	5,820 5,400	54.5 52.2	5,970 5,840	140
145	33.0	7,200			36.8	4,930			41.7	5,000			45.6	5,040		-,•	145
150					33.7	4,600			39.1	4,670			43.3	4,710			150
155 160									36.3 33.1	4,360 4,030			41.0 38.3	4,400			155 160
165									33.1	4,030			3 8.3 35.6	4,070 3,760			165
170													32.7	3,480			170
Reeves	:	2	2	2	:	2		1	2	2	-	1	1	2		1	Reeves



Fixed Jib Lifting Capacity

Unit: lbs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

	140' E	400m															
	140 6		ft Jib			40	ft Jib			50 1	ft Jib			60 t	t Jib		
Load	,		ngle (deg.	.)			ngle (deg.	.)			ngle (deg.)		Offset An		.)	Load
Radius		0		30		10	_	30		0		30		0		30	Radiu
(ft)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	(ft)
40 45 50 55 60 65 70 75 80 85 90 95 100 105 120 125 130 140 145 150 155 160 165 170	79.6 77.9 76.2 74.4 72.6 70.9 69.1 67.2 65.3 63.5 51.6 59.5 57.5 53.4 48.9 46.6 44.2 41.7 38.8 36.0 32.9	24,000* 24,000* 24,000* 22,680 20,080 17,940 16,110 14,460 13,130 10,950 9,980 9,190 8,460 7,820 6,650 6,170 5,730 4,910 4,560 4,210	79.2 77.4 75.6 73.8 72.0 68.1 66.2 64.3 62.2 60.1 55.9 53.5 51.3	19,900* 19,090* 18,400* 17,760* 16,680 14,960 13,600 12,380 11,330 10,310 9,500 8,750 8,060 7,400 6,850	79.4 77.8 76.1 74.4 72.8 71.1 69.3 67.6 65.9 64.1 62.2 60.3 58.5 56.6 54.5 52.5 50.4 48.2 46.0 43.5 41.1 38.5 35.7 32.5	24,000* 24,000* 22,970 20,340 18,180 16,330 14,680 11,130 10,160 9,340 8,610 7,950 6,300 5,840 5,420 4,670 4,320 3,940 3,610	79.9 78.2 76.5 74.8 72.9 71.2 69.4 67.6 65.6 63.7 61.8 59.8 57.6 55.5 53.4	15,320* 14,720* 14,170* 13,690* 12,760* 12,780* 11,810 10,780 9,920 9,140 8,460 7,780 7,200 6,670	79.1 77.4 75.9 74.3 72.8 71.1 69.4 67.8 66.2 64.4 62.7 60.9 59.2 55.4 53.5 51.6 49.5 47.3 45.1 42.9 40.5 37.8 35.1 32.2	20,000* 20,000* 19,970* 18,360 16,510 14,830 13,490 12,300 11,260 10,290 9,470 8,730 8,060 6,900 6,990 6,990 5,5510 4,730 4,400 4,030 3,680 3,370 3,080	78.8 77.2 75.5 73.8 72.1 70.4 68.6 66.8 65.0 63.2 61.2 59.3 57.3 55.3 55.3	11,170* 10,780* 10,330* 10,030* 9,720* 9,430* 9,120* 8,880* 8,640* 8,440* 7,420 6,900 6,390 5,950	78.5 77.0 75.6 74.1 72.5 71.0 69.4 67.9 66.2 64.6 57.9 56.1 54.3 52.5 50.5 48.5 44.4 42.0 39.7 37.3 34.6	18,000* 17,210* 16,130* 15,160* 14,260* 13,490* 10,380 9,540 8,810 8,150 6,960 6,450 5,990 5,570 4,470 4,100 3,720 3,410 3,130 2,840	79.3 77.7 76.1 74.5 72.9 71.2 69.5 67.8 66.1 64.3 62.5 60.7 58.8 56.9 54.7 52.7	8,950* 8,590* 8,310* 8,020* 7,760* 7,510* 7,270* 6,870* 6,520* 6,370* 6,230* 6,100* 5,640 5,240	40 445 500 655 70 755 600 655 700 955 1000 1055 1200 1255 1300 1455 1600 1655 170 175
Reeves	1	2	2	2		2		1	2	2	A 7		2	2		1	Reeves
	150' E	Boom							1	1 .							
			ft Jib			40 :	£ 1:1-	_									_
Load		Offset Ar					π JID			50 t	ft Jib			60 t	t Jib		
Radius (ft)			<u> </u>			Offset Ar	ngle (deg.	,		Offset An	ngle (deg.	,		Offset An	gle (deg.	<u> </u>	Load
(1.7)	Boom Anale	0	3	30	1	Offset Ar 10	ngle (deg.	30	1	Offset An 0	ngle (deg.	30	1	Offset An	gle (deg.	30	Radius
45		Rated Load	Boom Angle	Rated Load	1 Boom Angle	Offset Ar 10 Rated Load	ngle (deg. Boom Angle	Rated Load	1 Boom Angle	Offset An O Rated Load	ngle (deg. 3 Boom Angle	Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg. 3 Boom Angle	Rated Load	Load Radius (ft)
50 55 60 65 70 75 80 85 90 95 100 115 120 125 135 140 145 155 166 170 175	(deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 49.6 47.5 45.3 42.8 40.3 37.8 35.0 31.8		3	30	1	Offset Ar 10	ngle (deg.	30	1	Offset An 0	ngle (deg.	30	1	Offset An	gle (deg.	30	Radius

LIFTING CAPACITY



Fixed Jib Lifting Capacity

Unit: lbs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

'	160' E	300m															
		30 t	t Jib			40 1	t Jib			<i>50</i> :	ft Jib			60 i	ft Jib		
Load		Offset An	gle (deg	.)		Offset An	gle (deg	.)		Offset Ar	ngle (deg.	.)		Offset Ar	ngle (deg.)	Load
Radius	1	10	3	30	1	0	3	30	1	0	3	30	1	10	3	80	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
45	79.2	24,000*															45
50	77.7	24,000*			79.0	22,830*											50
55	76.1	22,350	78.8	19,640*	77.5	22,000*			78.7	20,000*			79.6	18,000*			55
60	74.5	19,750	77.2	18,950*	76.0	20,030	79.5	15,120*	77.3	19,200*			78.3	17,800*			60
65	73.0	17,590	75.6	18,290	74.6	17,850	78.0	14,590*	75.9	18,030	80.0	11,440*	76.9	17,060*			65
70	71.4	15,760	74.0	16,400	73.1	16,000	76.4	14,100*	74.5	16,180	78.5	11,060*	75.6	16,090*			70
75	69.7	14,100	72.3	14,680	71.5	14,320	74.8	13,640*	72.9	14,500	77.0	10,670*	74.2	14,610	78.9	8,810*	75
80 85	68.1 66.5	12,780 11,610	70.7 69.0	13,290 12.080	70.0 68.4	12,980 11,810	73.2 71.7	13,220* 12,630	71.5 70.1	13,130 11.940	75.5 74.0	10,330* 10.030*	72.8 71.4	13,240 12.050	77.5 76.1	8,530* 8,240*	80 85
90	64.8	10,580	67.3	11,020	66.9	10,780	70.1	11,530	68.6	10,910	72.5	9,740*	70.0	11,000	74.6	8,000*	90
95	63.0	9.630	65.5	10,000	65.2	9.780	68.4	10,510	67.0	9,920	70.9	9,450*	68.5	10,000	73.1	7,760*	95
100	61.3	8.810	63.8	9,170	63.6	8,970	66.7	9,650	65.5	9,100	69.3	9,210*	67.1	9,190	71.6	7,530*	100
105	59.6	8.090	62.0	8,420	62.0	8,240	65.1	8,880	64.0	8,370	67.8	8,970*	65.7	8,440	70.2	7,310*	105
110	57.9	7,450	60.2	7,730	60.4	7,580	63.4	8,170	62.5	7,690	66.2	8,420	64.2	7,780	68.7	7,140*	110
115	55.9	6,810	58.2	7,070	58.6	6,940	61.5	7,490	60.8	7,050	64.5	7,730	62.7	7,140	67.0	6,940*	115
120	54.1	6,280	56.3	6,520	56.9	6,410	59.8	6,920	59.2	6,500	62.8	7,140	61.2	6,590	65.5	6,790*	120
125	52.2	5,770	54.4	5,990	55.1	5,900	58.0	6,390	57.6	6,010	61.1	6,610	59.7	6,080	63.9	6,610*	125
130	50.3	5,330	52.4	5,530	53.3	5,440	56.1	5,900	55.9	5,550	59.4	6,100	58.1	5,620	62.3	6,280	130
135	48.2	4,890			51.5	5,020	54.2	5,440	54.2	5,130	57.6	5,640	56.5	5,180	60.7	5,820	135
140	46.0	4,400			49.5	4,560	52.1	5,000	52.4	4,670	55.7	5,200	54.8	4,760	58.9	5,350	140
145 150	43.9 41.6	4,010			47.5	4,140	4		50.6 48.7	4,250	53.8 51.9	4,800	53.2 51.5	4,320	57.1	4,960	145
155	39.3	3,610 3,260			45.5 43.4	3,740 3,370			46.8	3,850 3,480	51.9	4,430	49.7	3,920 3,540	55.4 53.6	4,580 4,230	150 155
160	36.6	2,910			43.4	3,020			44.8	3,100			49.7 47.8	3,170	51.5	3,810	160
165	33.9	2,600			38.8	2,710			42.7	2,790			46.0	2,860	31.3	3,010	165
170	55.5	_,,,,,,			00.0	,							44.1	2,550			170
Reeves	:	2	:	2		2		1	4	2		1		2		1	Reeves
													1				1 1 1 1

170' Boom																	
Load Radius	30 ft Jib				40 ft Jib				50 ft Jib				60 ft Jib				
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Load Radius
	10		3	30		10		30		10		30		10		30	
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
45	79.8	23,360*															45
50	78.3	22,830*			79.6	20,800*											50
55	76.8	22,150	79.4	19,860*	78.1	20,000*			79.2	18,500*			80.0	17,000*			55
60	75.3	19,550	77.9	19,220*	76.7	19,200*	80.0	15,290*	77.9	17,800*			78.8	16,400*			60
65	73.8	17,370	76.4	18,120	75.3	17,630	78.6	14,770*	76.5	17,100*			77.5	15,800*			65
70	72.4	15,560	74.9	16,220	73.9	15,800	77.1	14,300*	75.2	15,980	79.1	11,170*	76.2	15,200*			70
75	70.8	13,880	73.2	14,500	72.4	14,130	75.6	13,840*	73.8	14,280	77.6	10,800*	74.9	13,980*	79.4	8,900*	75
80	69.3	12,560	71.7	13,090	71.0	12,760	74.1	13,420*	72.4	12,940	76.2	10,490*	73.6	13,050	78.1	8,610*	80
85	67.7	11,390	70.1	11,880	69.5	11,590	72.6	12,450	71.0	11,750	74.8	10,180*	72.3	11,860	76.7	8,350*	85
90	66.2	10,360	68.6	10,820	68.1	10,560	71.1	11,370	69.6	10,690	73.4	9,890*	71.0	10,800	75.4	8,110*	90
95	64.5	9,390	66.9	9,810	66.5	9,560	69.5	10,330	68.2	9,720	71.9	9,610*	69.5	9,810	73.9	7,870*	95
100	62.9	8,590	65.2	8,970	65.0	8,750	68.0	9,470	66.7	8,880	70.4	9,360*	68.2	8,970	72.5	7,640*	100
105 110	61.3 59.7	7,870 7,200	63.6 61.9	8,220 7,530	63.5 61.9	8,020 7,360	66.4 64.8	8,680 8,000	65.3 63.9	8,150 7,470	68.9 67.4	8,970 8,240	66.8 65.5	8,220 7,560	71.1 69.7	7,450* 7,250 *	105 110
115	5 9.7 57.9	6,560	60.1	6,870	60.3	6,720	63.1	7,310	62.3	6,830	65.8	7,560	64.0	6,920	68.2	7,250*	115
120	56.2	6,040	58.3	6,300	58.7	6,170	61.5	6.720	60.8	6,280	64.3	6,960	62.6	6,340	66.7	6,900*	120
125	54.4	5,550	56.5	5.790	57.0	5,680	59.8	6.190	59.3	5.770	62.7	6.410	61.1	5,860	65.2	6,610	125
130	52.6	5,070	54.7	5,310	55.4	5,220	58.1	5.700	57.7	5,310	61.1	5,930	59.7	5,370	63.7	6,100	130
135	50.8	4,560	52.8	4,850	53.7	4,730	56.4	5,260	56.1	4,870	59.5	5,460	58.2	4,960	62.2	5,640	135
140	48.8	4,070	02.0	1,000	51.8	4,230	54.4	4,820	54.4	4,360	57.7	5,000	56.6	4,450	60.5	5,180	140
145	46.9	3,650			50.1	3,810	52.6	4,360	52.8	3,920	56.0	4,620	55.1	4,010	58.9	4,780	145
150	44.8	3,280			48.2	3,410		,	51.1	3,520	54.2	4,160	53.5	3,610	57.3	4,380	150
155	42.7	2,930			46.3	3,060			49.3	3,150	52.4	3,760	51.9	3,240	55.6	3,960	155
160	40.4	2,570			44.2	2,680			47.4	2,790			50.2	2,860	53.8	3,540	160
165													48.5	2,530	52.0	3,170	165
Reeves	2 2		2	2		1		2		2		2		1		Reeves	



Fixed Jib Lifting Capacity

Unit: Ibs

Counterweight: 57,800 lbs, Carbody weight: 14,300 lbs

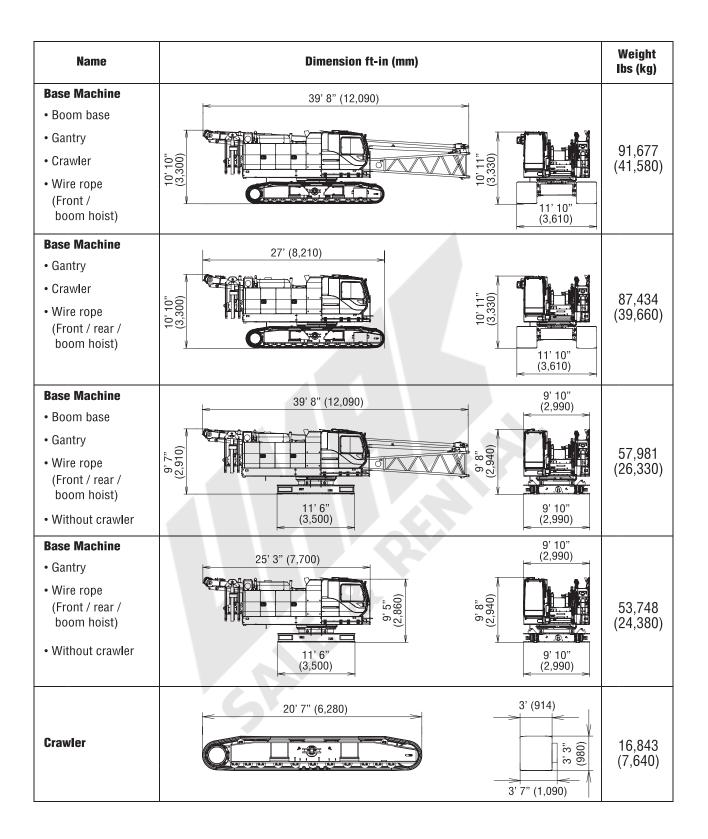
180' Boom																	
Load	30 ft Jib				40 ft Jib				50 ft Jib				60 ft Jib				
	Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Offset Angle (deg.)				Load
Radius	10		3	80	10		30		10		30		10		30		Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
50	78.9	19,770*															50
55	77.4	19,240*	79.9	19,060*	78.7	18,500*			79.7	17,000*							55
60	76.0	18,760*	78.5	18,580*	77.3	17,800*			78.4	16,400*			79.3	15,000*			60
65	74.6	17,190	77.1	17,960	76.0	17,100*	79.1	14,740*	77.1	15,800*	70.0	44.000*	78.0	14,500*			65
70	73.2	15,360	75.6	16,070	74.7	15,630	77.7	14,460*	75.9	15,200*	79.6	11,300*	76.8	14,000*	70.0	0.000*	70
75	71.7 70.3	13,710 12.360	74.1 72.6	14,350 12,940	73.2 71.9	13,950 12,580	76.3 74.9	14,020* 13,580	74.5 73.2	13,980* 12.760	78.2 76.9	10,930* 10,600*	75.5 74.3	13,500* 12,870	79.9 78.6	8,990* 8.700*	75 80
85	68.8	11,190	71.2	11,720	70.5	11,410	73.5	12,320	71.9	11,570	75.5	10,310*	73.0	11,680	77.3	8,460*	85
90	67.4	10.180	69.7	10,640	69.1	10,360	72.1	11.220	70.6	10,510	74.2	10,030*	71.8	10.620	76.0	8,200*	90
95	65.8	9,190	68.1	9,630	67.6	9,390	70.5	10,180	69.2	9,520	72.7	9,740*	70.4	9,630	74.6	7,950*	95
100	64.3	8,390	66.5	8,790	66.2	8,570	69.1	9,320	67.8	8,700	71.4	9,500*	69.2	8,790	73.3	7,760*	100
105	62.8	7,670	65.0	8,040	64.8	7,820	67.6	8,550	66.5	7,950	70.0	8,810	67.9	8,040	72.0	7,530*	105
110	61.3	7,010	63.4	7,360	63.3	7,160	66.1	7,840	65.1	7,290	68.5	8,110	66.6	7,360	70.7	7,360*	110
115	59.6	6,370	61.7	6,670	61.8	6,520	64.5	7,160	63.6	6,630	67.0	7,400	65.2	6,720	69.2	7,160*	115
120	58.0	5,840	60.1	6,120	60.3	5,970	63.0	6,560	62.2	6,080	65.6	6,810	63.8	6,170	67.8	7,010*	120
125	56.4	5,310	58.4	5,590	58.8	5,460	61.4	6,040	60.8	5,570	64.1	6,260	62.5	5,660	66.4	6,480	125
130	54.7	4,780	56.7	5,110	57.2	4,960	59.8	5,550	59.3	5,090	62.6	5,770	61.1	5,180	65.0	5,970	130
135	53.0 51.2	4,270 3,790	55.0 53.1	4,580 4,070	55.6 53.9	4,450 3,940	58.2 56.4	5,090 4,580	57.8 56.2	4,580 4,070	61.1 59.4	5,310 4,850	59.7 58.2	4,670 4,160	63.6 62.0	5,480 5,020	135 140
140 145	49.4	3,790 3,370	51.3	3,610	52.3	3,520	54.7	4,120	54.7	3,630	57.8	4,380	56.8	3,720	60.5	4,620	145
150	47.6	2,970	31.3	3,010	50.6	3,130	53.0	3,680	53.1	3,240	56.2	3,940	55.3	3,720	59.0	4,160	150
155	45.7	2,600			48.8	2,750	00.0	0,000	51.5	2,860	54.5	3,520	53.8	2,930	57.5	3,740	155
160		_,				_,				_,	52.7	3,100	52.2	2,550	55.8	3,320	160
165						4									54.1	2,950	165
170															52.4	2,600	170
Reeves	2		2		2		1		1		1		1		1		Reeves

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

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

Refer to notes P10.

TRANSPORTATION PLAN

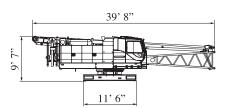


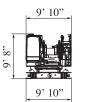


PARTS AND ATTACHMENTS

Base Machine

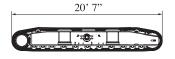
Gantry, Wire rope (Front/rear/boom hoist), Without crawler Weight: 57,981 lbs Width: 9' 10"

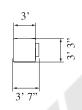




Crawler

Weight: 16,843 lbs





10 ft Insert Boom

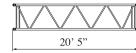
Weight: 590 lbs





20 ft Insert Boom

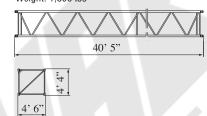
Weight: 1,025 lbs





40 ft Insert Boom

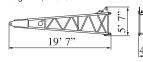
Weight: 1,896 lbs



Dimensions: ft Weight: lbs

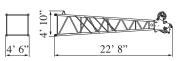
Boom Base

Weight: 2,326 lbs



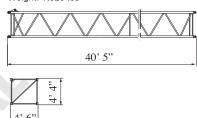
Boom Tip

Weight: 2,227 lbs



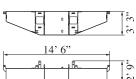
40 ft Insert Boom with lug

Weight: 1,929 lbs



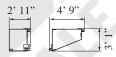
Counterweight No.1

Weight: 20,550 lbs



Counterweight No.2, No.3 (R)

Weight: 9,260 lbs



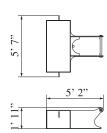
Counterweight No.2, No.3 (L) Weight: 9,260 lbs





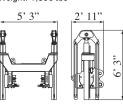
Carbodyweight

Weight: 7,165 lbs



Self removal unit

Weight: 1,896 lbs

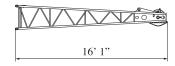


Dimensions: ft Weight: lbs

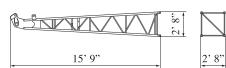
Jib Tip

Weight: 485 lbs

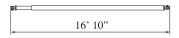




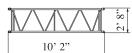
Jib Base Weight: 440 lbs



Backstop Weight: 595 lbs

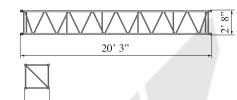


10 ft Insert Jib Weight: 210 lbs

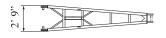


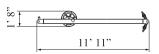






Jib Strut Weight: 456 lbs



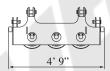


Auxiliary Sheave Weight: 320 lbs

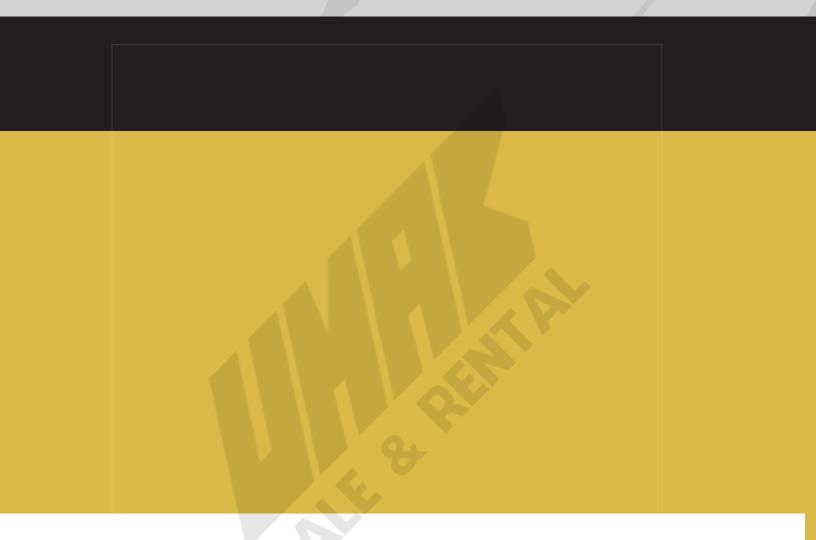




Upper Spreader Weight: 514 lbs







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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