R

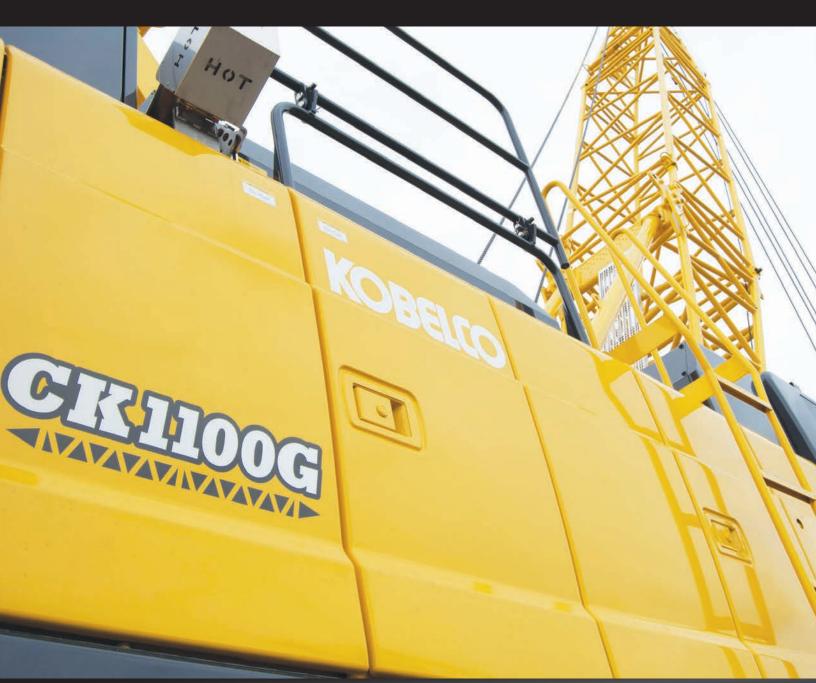
Hydraulic Crawler Crane

KOBELCO

GEFFOOG

Max. Lifting Capacity: 110 US Tons Max. Crane Boom Length: 200 ft

Max. Fixed Jib Combination: 190 ft + 60 ft



CK1100G CONTENTS

- **SPECIFICATIONS**
 - **G-MODE**
- LMI
- **WINCH PERFORMANCE**
- **GENERAL DIMENSIONS**
- **DIMENSIONS & WEIGHT**
- TRANSPORTATION PLAN
- **SELF ASSEMBLY PROCEDURE**
- **COUNTERWEIGHT SELF-REMOVAL DEVICE**
- **BOOM & JIB ARRANGEMENTS**
- **WORKING RANGES**
- **SUPPLEMENTAL DATA**
- **LIFTING CAPACITY**
- 29 CLAMSHELL DATA
- **BARGE DATA**



General Description



Crawler mounted, Lattice boom, Hydraulic controlled *Type* Maximum lift capacity 220,000 lbs (99,800 kg) @ 11' operating radius (40' boom)

Basic boom length 40' (12.2 m) Maximum boom length 200' (61.0 m)

80' + 30' (24.4 m + 9.1 m)Basic boom & jib length Maximum boom & jib length 190' + 60' (57.9 m + 18.3 m)Working weight Approx. 198,500 lbs (90,020 kg) Ground bearing pressure

Gradeability

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

Working Speed

Approx. 12.9 psi (101 kPa)

Hoist line speed (front and rear drums)

 $390 \sim 10 \text{ ft/min} (120 \sim 3 \text{ m/min})$

Lowering line speed (front and rear drums)

 $390 \sim 10 \text{ ft/min} (120 \sim 3 \text{ m/min})$

Boom hoist line speed (front and rear drums)

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

Boom lowering line speed (front and rear drums)

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

Swing speed (max.) 4.0 rpm

Travel speed (high/low) 1.07/0.71 mph (1.7/1.1 km/h)

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

Upper Machinery

Power Plant:

Diesel engine - make and model

Hino J08E-UV

(complies with Interim "Tier 4")

No. of cylinders

Bore X stroke 4-13/16" x 5-7/8"

(122 mm x 150 mm)

Cycles

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)

24 Volts / 5.0 kW Starter 24 Volts / 90 Amp Alternator

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

Corrugated type core, thermostatically controlled, with cleanout screen. Radiator

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.

Replaceable paper element. Fuel filter



^{* - 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 18,200 (8,310 kg)

 Counterweight (R)
 2 x 12,700 (5,750 kg)

 Counterweight (L)
 2 x 12,700 (5,750 kg)

 Total Counterweight
 69,000 (31,310 kg)

Carbody weight 2 x 15,900 (7,200 kg) Total Carbody weight 31,800 (14,400 kg)



Hydraulic system

Maximum pressure rating

4,626 psi (31.9MPa)

Cooling

Oil to air heat exchanger

Filtration

Full flow filters with replaceable paper elements

Reservoir capacity

116.2 US gal. (440 liters)

Hydraulic pumps:

Load hoist, boom hoist, and propel

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

Swing

1 piston pump, max flow rate 46.7 US gal/min (177 t/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) - 46,800 lbf (208 kN) Rated line pull - 25,200 lbf (112 kN)

Lower Machinery

Crawlers:

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

Crawler drive:

The independent two speed hydraulic propel drive is built into each crawler side frame. Each drive consists of a hydraulic motor driving a propel sprocket through a planetary gear box. The hydraulic motor and gear box are built into the crawler side frame within the shoe width.

Crawler brakes:

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

Steering mechanism:

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

Crawler shoe:

66 shoes - 36" wide, each crawler.

Track rollers:

The track rollers are sealed for maintenance free operation.

Front drum:

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

Negative brake

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

Drum lock External ratchet for locking drum

Drums:

Front drum -

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

Rear drum -

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

3rd drum (optional) -

550 mm P.C.D. x 545 mm Lg., grooved for 22 mm wire rope. Rope capacity is 476' (145 m) working length and 1,099' (335 m) storage length.



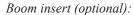


Crane Attachments

Boom:

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

Maximum boom 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 length
 60' (18.3 m)

 Basic jib length
 30' (9.1 m)

 Jib base section
 15'9" (4.8 m)

 Jib tip section
 16'5" (5.0 m)

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

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



Auxiliary sheave (optional):

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

Boom hoist reeving:

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

Boom backstops:

Telescopic type with spring bumper

Standard Equipment

Lights:

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

Gauges and warning display

Gauges

One (1) tachometer One (1) hour meter One (1) fuel gauge

One (1) water temperature

Warning display

Battery charge Engine oil pressure Air cleaner Engine oil filter Control main pressure

Hydraulic oil temperature DPF condition indicator

Others

Air conditioner/heater

Drum turn indicator (front/rear)

Foot pedal / throttle Electric transfer pump

Counterweight self-removal device

KCross Telematics Free fall winches

Safety Service

Function lock lever Swing Limiter

Boom over hoist limit switch

Signal horn

Front/rear hoist drum lock

Swing Limiter (Buzzer, lamps, or stops) Overload prevention device (LMI)

Hook over hoist shut off (Anti-two-block)

Boom angle indicator

Travel alarm

Safety Service (cont)

Level indicator

Boom hoist drum lock

Swing locks, anti drift, and mechanical

Boom backstops

Boom base catwalk

Upper machinery catwalk, handrails

and ladder

Tools and Accessories

A set of tools and accessories are furnished.

Optional Equipment

Third drum

Hook block

Hook ball

Auxiliary sheave

Fixed jib

Boom inserts

Carbody erection cylinder



G-Mode

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

Auto Idling Stop Mode (AIS):

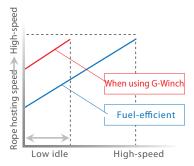
An Industry First

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

G-Winch Mode:

An Industry First

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



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

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.

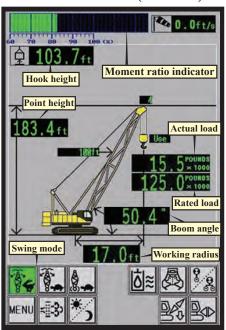
* Warning: High sulfer diesel will damage the engine.



Load Moment Indicator (LMI)

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

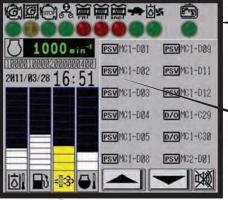
Moment Limiter (Left Side)







Gauges (Right Side)



Display Lamp
Display lamp
G-Engine
G-Winch
AIS operation
Slow speed state

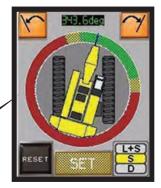
Remote control connection Oil cooler operation Free fall (auxiliary) Free fall (3rd)

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 = 26 mm

Rated Line Pull = 25,200 lbf (112 kN)

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

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

Line speed (ft/min)

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

Third Drum (for Load hoist)

Wire Rope Diameter = 22 mm

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

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

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

Line speed (ft/min)

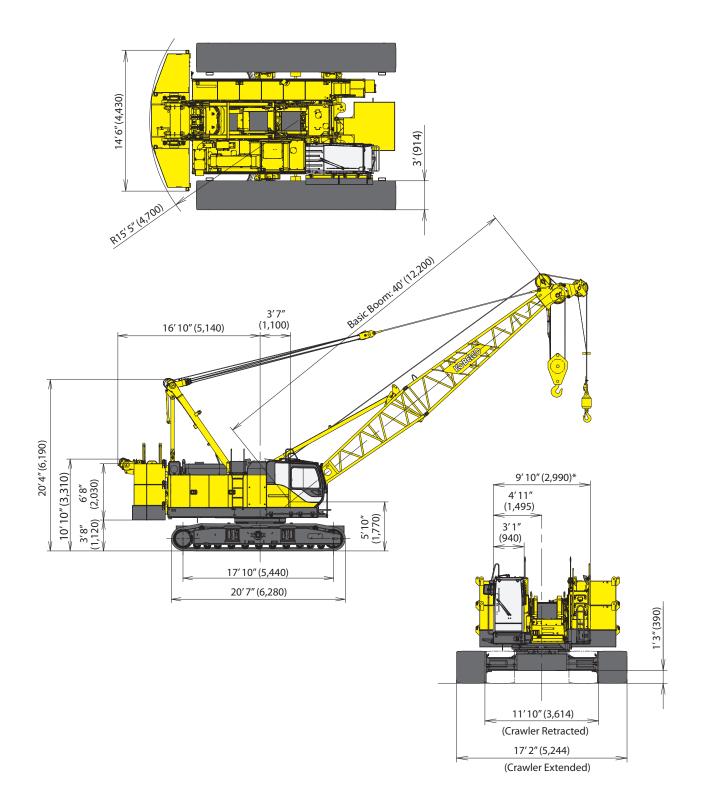
	Layer	1	2	3	4	5	6
	0	394	394	394	394	394	
	5,000	394	394	394	394	394	
	10,000	227	227	227	227	227	
Line Pull	15,000	147	152	161	170	179	storage
(lbs)	17,000	142	151	160	169	178	only
	20,000	140	149	158	167	176	
	25,000	138	147	155	164	172	
	30,000	136	144				
Storage Cap	acity (ft)	130	139	148	157	166	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	1.049" to 1.070" (26.65 mm to 27.17 mm)	771ft (235 m)	3.5: 1	120,048 lbf (534 kN)
Rear drum	6 x 29 Filler IWRC Right hand lay, Regular lay	1.049" to 1.070" (26.65 mm to 27.17 mm)	525ft (160 m)	3.5: 1	120,048 lbf (534 kN)
Boom drum	6 x 31 P Warrington seal Right hand lay, Regular lay	0.646" to 0.658" (16.40 mm to 16.72 mm)	492ft (150 m)	3.5: 1	47,210 lbf (210 kN)
Third drum (Optional)	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	476ft (145 m)	3.5: 1	81,606 lbf (363 kN)



General Dimensions



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



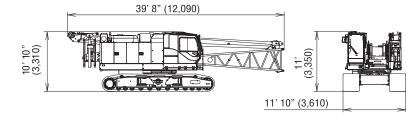
Dimensions and Weight

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

Base Machine - 1

Weight: 95,200 lbs (43,150 kg)

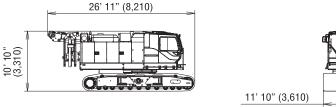
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)



Base Machine - 2

Weight: 90,600 lbs (41,090 kg)

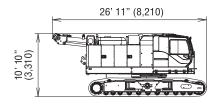
Gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

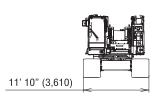


Base Machine - 3

Weight: 88,700 lbs (40,230 kg)

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

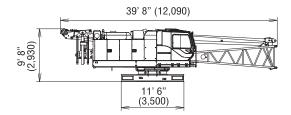


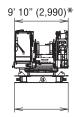


Base Machine - 4

Weight: 61,500 lbs (27,880 kg)

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



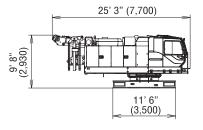


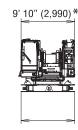
Base Machine - 5

Weight: 56,900 lbs (25,820 kg)

Gantry, self removal unit, and

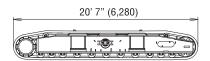
wire ropes (front, rear, and boom hoist)

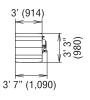




Crawler

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





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

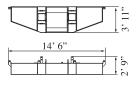


Dimensions: ft-in (mm) Weight: lbs (kg)

Dimensions and Weight

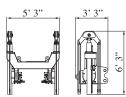
Counterweight Base

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



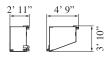
Self Removal Unit

Weight: 1,900 lbs (870 kg)



Counterweight (R)

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



Counterweight (L)

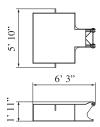
Weight: 12,700 lbs (5,750 kg)





Carbody Weight

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



Auxiliary Sheave

Weight: 430 lbs (195 kg)





Boom Base

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

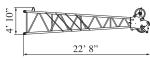




Boom Tip

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





10 ft (3.0 m) Insert Boom

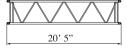
Weight: 800 lbs (364 kg) Includes cable roller and guy lines





20 ft (6.1 m) Insert Boom

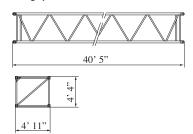
Weight: 1,400 lbs (613 kg) Includes cable roller and guy lines





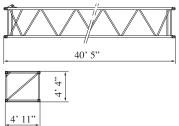
40 ft (12.2 m) Insert Boom

Weight: 2,400 lbs (1,098 kg) Includes cable roller and guy lines



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

Weight: 2,500 lbs (1,113 kg) Includes cable roller and guy lines



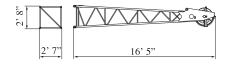


Dimensions and Weight

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

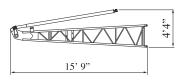
Jib Tip

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



Jib Base and Strut

Weight: 1,400 lbs (637 kg) Includes guy line.





10 ft (3.0 m) Insert Jib

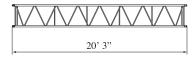
Weight: 280 lbs (128 kg) Includes cable roller and guy line.





20 ft (6.1 m) Jib Insert

Weight: 480 lbs (218 kg) Includes cable roller and guy line.







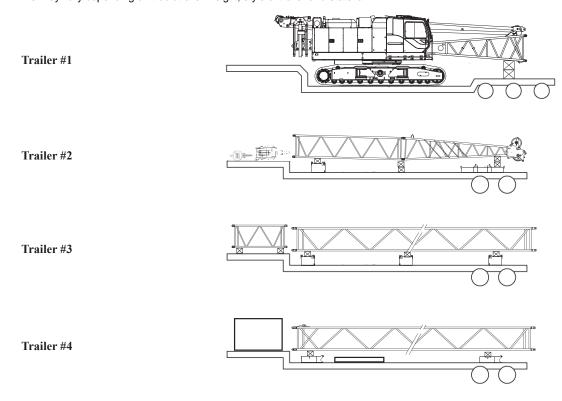
Transportation PlanRefer to pages 10-12

Shipping plan for 150 ft Boom

Description of House	Wei	ight		Trailer	Loads	
Description of Item	lbs	(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	95,200	(43,150)	1			
Counterweight Base	18,200	(8,310)		1		
Counterweight (L)	12,700	(5,750)			2	
Counterweight ('R)	12,700	(5,750)		1	1	
Carbody Weight	15,900	(7,200)				2
10 ft Insert Boom and Guy Line	800	(364)			1	
20 ft Insert Boom and Guy Line	1,400	(613)		1		
40 ft Insert Boom and Guy Line	2,400	(1,098)			1	
40 ft Insert Boom (w/ Lug) and Guy Line (A)	2,500	(1,113)				1
Boom Tip and Guy Line	2,900	(1,292)		1		
Jib Base and Guy Line	1,400	(637)				
10 ft Insert Jib and Guy Line	280	(128)				
20 ft Insert Jib and Guy Line	480	(218)				
Jib Tip	500	(227)				
75 Ton Block	3,000	(1,361)		1		
13 Ton Ball	800	(365)		1		
Ladder Assembly	90	(41)				1
Support Box	5,000	(2,268)				1
Approx. Total China	ing Maight	lbs	95,200	39,000	41,300	39,390
Approx. Total Shipping Weight		(kg)	(43,150)	(17,691)	(18,712)	(17,822

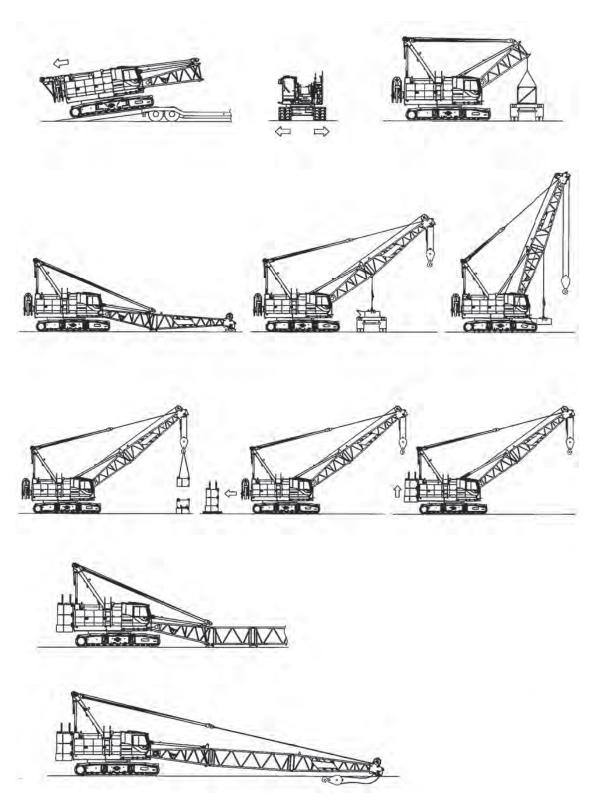
^{*} Third drum is not included. Add 4,200 lbs if third drum is installed.

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



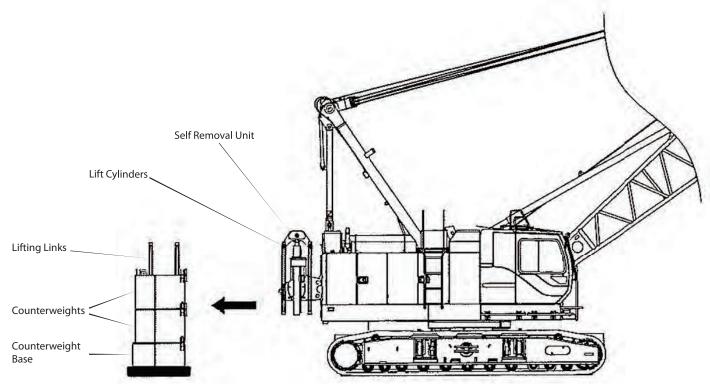


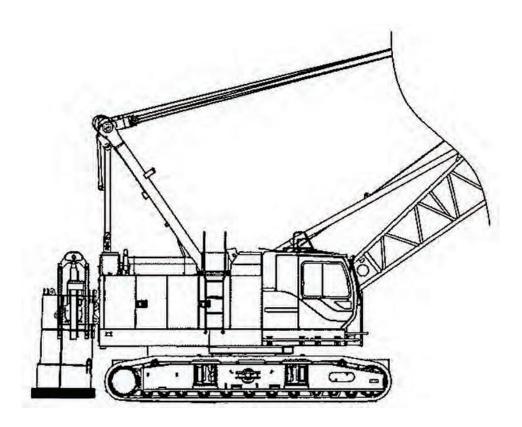
Self-Assembly Procedure





Counterweight Self-Removal Device





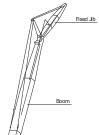


Boom and Fixed Jib Arrangement

Boom Arrangement

Boom	Boom arrangement
length ft (m)	20011 diffally of the first
40 (12.2)	
50 (15.2)	□ 10 1 →
60 (18.3)	*
70 (21.3)	* B 10 20 F
80 (24.4)	*
90 (27.4)	* = 10 20 120 T
100 (30.5)	# = B 10 10 20 1 20 1 T
110 (33.5)	※ ──────────────────────────────────
120 (36.6)	# B 10 10 20 1 40A T
130 (39.6)	
140 (42.7)	

Fixed Jib Arrangement



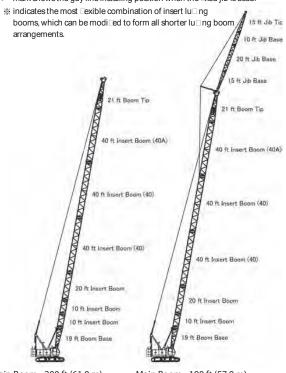
Crane boom length	Jib length ft (m)	Jib arrangement
	30 (9.1)	
80 ft (24.4 m)	40 (12.2)	B 10 F
190 ft (57.9 m)	50 (15.2)	■ 20 T
	60 (18.3)	B 20 110

Symbol	Jib Length	Remarks
B	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

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 ■ 10 40 40 40A T ■ 10 40 40
180 (54.9)	※ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
190 (57.9)	
200 (61.0)	※ □ 10 10 20 40 40 40 40A T

Symbol	Boom Length	Remarks
	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

rmark shows the guy line installing position when the □xed jib is used.

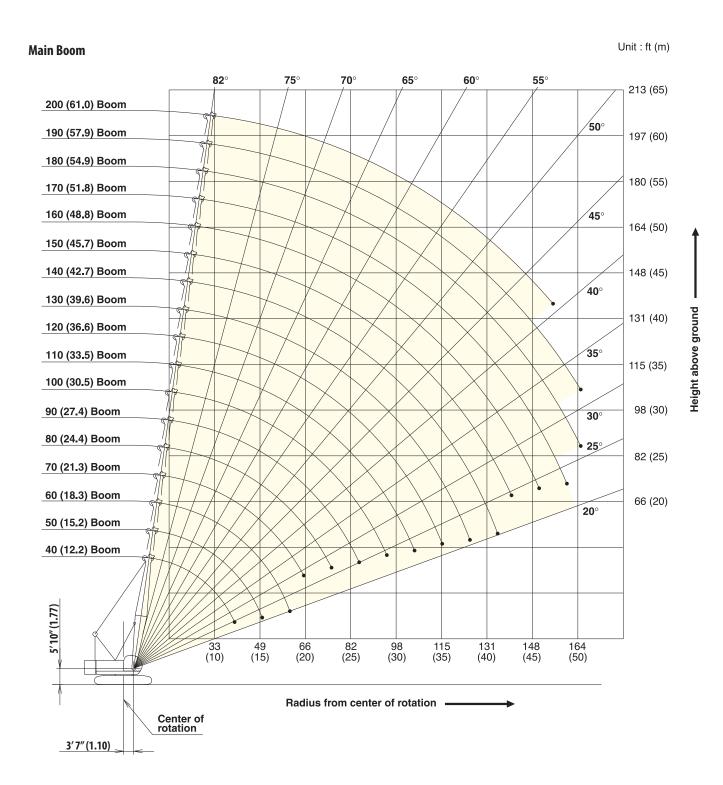


Main Boom - 200 ft (61.0 m)

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

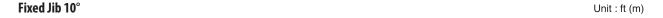


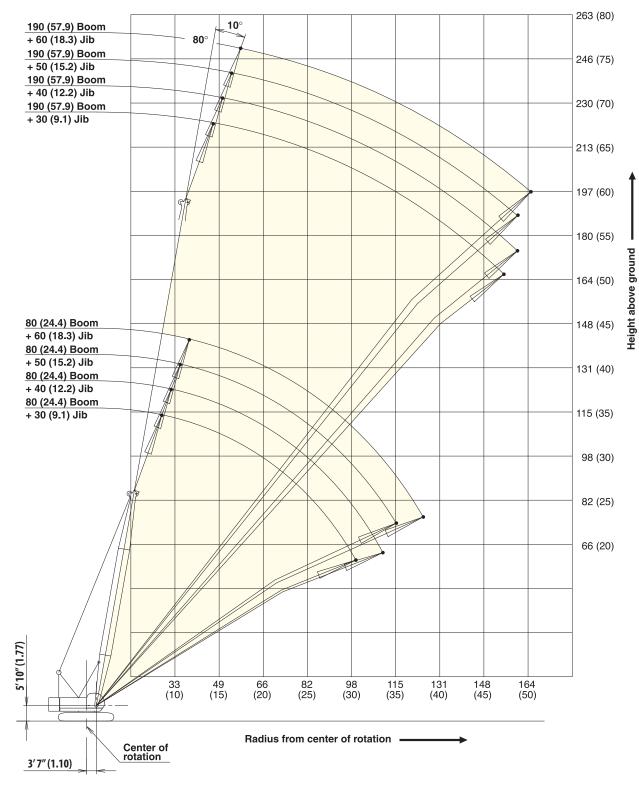
Working Ranges





Working Ranges

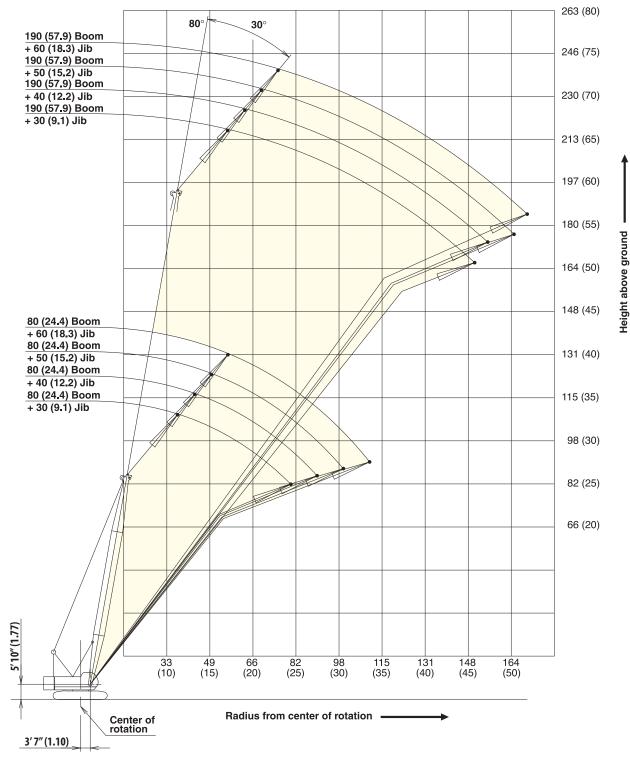






Working Ranges







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 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.
 - 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.
- 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)	430	2,500	3,700	5,100	6,700

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

- 11. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
- 12. The boom should be erected over the front of the crawlers, not laterally. When lifting from or lowering to the ground the boom at length of 190 ft (57.9 m) with jib, the blocks for erections must be placed at the end of the crawlers.
- 13. Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	3	4	5
Maximum Loads (lbs)	25,200	50,400	75,600	100,800	126,000

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

Maximum Load for Fixed Jib

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

Maximum Load Auxiliary Sheave

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

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



Main Boom Lift Capacity

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

40)' Boo	m	50	0' Boo	m	60	0' Boo	m	70	0' Boo	m	80)' Boo	m
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
11.0	80.5	220,000 *	12.0	81.2	213,200 *	13.0	81.7	200,400 *	15.0	81.3	151,000 *	16.0	81.6	151,000 *
12.0	79.0	213,300 *	13.0	80.0	200,600 *	14.0	80.7	187,400 *	16.0	80.4	151,000 *	17.0	80.9	149,300 *
13.0	77.5	200,800 *	14.0	78.9	187,800 *	15.0	79.8	175,200 *	17.0	79.6	149,400 *	18.0	80.2	146,500 *
14.0 15.0	76.0 74.6	188,100 * 175,900 *	15.0 16.0	77.7 76.6	175,600 * 165,300 *	16.0 17.0	78.8 77.8	164,800 * 155,500 *	18.0 19.0	78.7 77.9	146,700 * 139,800 *	19.0 20.0	79.5 78.8	139,400 * 131,800
16.0	73.1	165,500 *	17.0	75.4	156,000 *	18.0	76.8	146,900 *	20.0	77.1	132,200	22.0	77.3	115,100
17.0	71.6	156,300 *	18.0	74.2	147,400 *	19.0	75.9	139,800 *	22.0	75.4	115,400	24.0	75.8	101,000
18.0	70.1	147,800 *	19.0	72.9	140,100 *	20.0	74.9	132,200	24.0	73.7	101,300	26.0	74.3	89,200
19.0 20.0	68.5 66.9	140,500 * 132.800	20.0 22.0	71.7 69.3	132,400 115,300	22.0 24.0	72.9 70.9	115,100 100,800	26.0 28.0	72.0 70.3	89,600 80,800	28.0 30.0	72.8 71.2	80,500 72,800
22.0	63.7	115,600	24.0	66.8	101,000	26.0	68.8	89,100	30.0	68.5	73,000	32.0	69.7	66,600
24.0	60.4	101,300	26.0	64.3	89,400	28.0	66.7	80,500	32.0	66.7	67,000	34.0	68.2	61,600
26.0	57.0	89,600	28.0	61.7	80,700	30.0	64.6	72,800	34.0	64.9	62,000	36.0	66.6	57,300
28.0	53.4	80,900	30.0	59.1	73,000	32.0	62.5	66,600	36.0	63.0	57,800	38.0	65.1	53,100
30.0 32.0	49.8 45.8	73,300 67,200	32.0 34.0	56.3 53.4	67,000 62,000	34.0 36.0	60.3 58.0	61,600 57,300	38.0 40.0	61.2 59.3	53,600 49,800	40.0 42.0	63.5 61.8	49,300 46,600
34.0	41.2	61,700	36.0	50.3	57,800	38.0	55.7	53,100	42.0	57.3	46,900	44.0	60.2	43,800
36.0	36.2	56,600	38.0	47.3	53,600	40.0	53.4	49,300	44.0	55.3	44,100	46.0	58.5	41,100
38.0	31.1	51,500	40.0	44.0	49,800	42.0	50.9	46,600	46.0	53.3	41,300	48.0	56.8	39,100
40.0	25.4	45,900 *	42.0 44.0	40.4 36.7	47,000 44,300	44.0 46.0	48.3 45.8	43,800 41,100	48.0 50.0	51.2 49.0	39,400 37,400	50.0 55.0	55.1 50.5	37,100 32,700
			46.0	32.9	44,500 41,500	48.0	42.8	39,200	55.0	49.0 43.2	37,400 33,200	60.0	45.7	29,200
			48.0	27.6	38,300	50.0	39.9	37,200	60.0	36.9	29,600	65.0	40.4	26,300
			50.0	22.3	35,100	55.0	31.2	32,900	65.0	29.2	26,800	70.0	34.3	24,100
						60.0	20.7	28,600 *				75.0	26.9	22,100
l Ree														
		8		eves	8		eves	8		ves	6		ves	6
	oves D' Boo	m		0' Boo	om		0' Boo	om		ves 0' Boo	om		0' Boo	om
90 Load)' Boo Boom	m 360°	10 Load	0' Boom	om 360°	11 Load	0' Boom	om 360°	12 Load	0' Boom	om	13 Load	0' Boom	om 360°
90)' Boo	m	10	0' Boom Boom Angle	om	11	0' Boom	om	12	0' Boo	om	13	0' Boom Boom Angle	om
Load Radius (ft)	D' Boo Boom Angle	m 360° Rated Load	Load Radius (ft)	0' Boom	360° Rated Load	Load Radius (ft)	0' Boom Boom Angle	360° Rated Load	Load Radius (ft)	O' Boom Boom Angle	360° Rated Load	Load Radius	0' Boom	360° Rated Load (lbs) 85,100 *
90 Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.3	360° Rated Load (lbs) 125,800 * 125,800 *	Load Radius (ft) 19.0 20.0	0' Boom Angle (deg.) 81.6 81.0	360° Rated Load (lbs) 125,600 * 123,600 *	Load Radius (ft) 20.0 22.0	O' Boom Angle (deg.) 81.8 80.8	360° Rated Load (lbs) 100,800 * 100,800 *	Load Radius (ft) 22.0 24.0	0' Boom Angle (deg.) 81.6 80.6	360° Rated Load (lbs) 98,700 * 94,200 *	Load Radius (ft) 24.0 26.0	O' Boom Angle (deg.) 81.3 80.4	360° Rated Load (lbs) 85,100 * 83,900 *
Load Radius (ft) 17.0 18.0 19.0	Boom Angle (deg.) 81.9 81.3 80.7	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 *	Load Radius (ft) 19.0 20.0 22.0	0' Boom Angle (deg.) 81.6 81.0 79.9	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 *	Load Radius (ft) 20.0 22.0 24.0	0' Boom Angle (deg.) 81.8 80.8 79.7	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 *	Load Radius (ft) 22.0 24.0 26.0	0' Boom Angle (deg.) 81.6 80.6 79.6	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 *	Load Radius (ft) 24.0 26.0 28.0	0' Boom Angle (deg.) 81.3 80.4 79.5	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 *
90 Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.3	360° Rated Load (lbs) 125,800 * 125,800 *	Load Radius (ft) 19.0 20.0	0' Boom Angle (deg.) 81.6 81.0	360° Rated Load (lbs) 125,600 * 123,600 *	Load Radius (ft) 20.0 22.0	O' Boom Angle (deg.) 81.8 80.8	360° Rated Load (lbs) 100,800 * 100,800 *	Load Radius (ft) 22.0 24.0	0' Boom Angle (deg.) 81.6 80.6	360° Rated Load (lbs) 98,700 * 94,200 *	Load Radius (ft) 24.0 26.0	O' Boom Angle (deg.) 81.3 80.4	360° Rated Load (lbs) 85,100 * 83,900 *
9(Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	10 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	81.6 81.0 79.9 78.7 77.5 76.3	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 88,200	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	81.8 80.8 79.7 78.6 77.6 76.5	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	81.6 80.6 79.6 77.7 76.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	81.3 80.4 79.5 78.6 77.7 76.9	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900
9(Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 110,800 89,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0	81.8 80.8 79.7 78.6 77.6 76.5 75.4	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0	81.6 80.6 79.6 77.7 76.7 75.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 66,100 61,100	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600
9(Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	10 Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	81.6 81.0 79.9 78.7 77.5 76.3	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 88,200	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	81.8 80.8 79.7 78.6 77.6 76.5	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	81.6 80.6 79.6 77.7 76.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	81.3 80.4 79.5 78.6 77.7 76.9	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 110,600 88,900 80,200 72,400 66,300 61,300 57,000	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	80.6 79.6 76.7 75.7 74.7 72.7	98,700 * 98,700 * 88,000 * 88,000 * 72,200 66,100 61,100 56,800 52,500 48,700	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600	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	800 Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1	360° Rated Load (lbs) 100,800 * 100,800 * 100,800 * 80,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0	80.6 79.6 76.7 75.7 74.7 73.7 71.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 72,200 66,100 61,100 56,800 52,500 48,700 45,800	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	80.0 Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 110,600 88,900 80,200 72,400 66,300 61,300 57,000	Load Radius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	80.6 79.6 76.7 75.7 74.7 72.7	98,700 * 98,700 * 88,000 * 88,000 * 72,200 66,100 61,100 56,800 52,500 48,700	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600
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	Boom Angle (deg.) 81.3 80.7 81.3 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300	Load Fadius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.6 81.0 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400	Load Fadius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	80.8 80.8 80.8 79.7 78.6 77.6 76.5 474.3 73.2 72.2 71.1 70.0 68.9 67.8	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700	12 Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 34.0 42.0 44.0 44.0 48.0	80.6 80.6 81.6 80.6 79.6 77.7 76.7 75.7 74.7 73.7 72.7 71.7 70.7 69.7 68.6	98,700 * 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 55,800 52,500 48,700 45,800 43,000 40,200 38,300	Load Fadius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0	80 Boom Angle (deg.) 81.3 80.4 79.5 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 36,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500	Load Padius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0	81.6 81.0 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 66.6 65.4	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 110,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700	Load Padius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 48.0	80.8 Room Angle (deg.) 81.8 Room 78.6 77.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6	360° Rated Load (lbs) 100,800 * 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700	12 Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 48.0 50.0	80.6 80.6 79.6 79.6 77.7 76.7 75.7 74.7 71.7 70.7 70.7 70.7 70.7 68.6 67.6	98,700 * 98,700 * 98,700 * 88,000 * 72,200 66,100 61,100 56,800 43,000 45,800 43,000 40,200 38,300 36,300	Load Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 55.0	80. Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 44.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700	Load Padius (ft) 19.0 20.0 24.0 24.0 26.0 30.0 33.0 34.0 36.0 38.0 40.0 44.0 44.0 48.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.6 65.4 64.1	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 52,700 48,900 46,200 43,400 40,700 38,700	Load Padius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 50.0	80.8 79.7 78.6 76.5 75.4 74.3 73.2 71.1 70.0 68.9 66.6 65.4	360° Rated Load (lbs) 100,800 * 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 38,600	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0	80.6 78.6 78.6 77.7 76.7 75.7 74.7 73.7 72.7 71.7 70.7 68.6 67.6 65.0	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 61,100 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300 32,000	Load Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 40.0 44.0 48.0 50.0 60.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9 74.1 73.2 72.2 71.3 70.4 69.4 69.4 67.1 64.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100
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 42.0 44.0 48.0	Boom Angle (deg.) 81.9 81.3 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900	Load Fadius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 34.0 40.0 44.0 46.0 48.0 45.0 55.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.4 64.1 62.8 59.5	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300	Load Fadius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 60.0	80.8 80.8 80.8 79.7 78.6 77.6 76.5 4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6 65.4 59.5	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 22,700	12 Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 34.0 44.0 44.0 44.0 50.0 55.0 66.0	80.6 80.6 81.6 80.6 79.6 77.7 76.7 75.7 74.7 71.7 70.7 69.7 69.7 68.6 67.6 67.6 65.0 62.3 59.6	98,700 * 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 55,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 25,400	Load Fadius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 55.0 60.0 65.0 70.0	80. Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 36.0 36.0 38.0 40.0 44.0 44.0 48.0 50.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9 59.4	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 44.0 46.0 48.0 50.0 55.0 60.0	81.6 81.6 81.0 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1	360° Rated Load (lbs) 125,600 * 125,600 * 112,200 * 110,600 * 88,900 * 80,200 * 72,400 * 66,300 * 61,300 * 57,000 * 52,700 * 48,900 * 40,700 * 38,700 * 32,300 * 28,700 * 28,700	Load Padius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 34.0 40.0 42.0 44.0 46.0 60.0 65.0	80.8 Rose Angle (deg.) 81.8 Rose 79.7 Rose 77.6 Rose 75.4 Rose 75.4 Rose 66.6 Rose 65.4 Rose 65.5 Rose 65.	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900	Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 42.0 44.0 48.0 50.0 655.0 60.0 70.0	80.6 80.6 79.6 79.6 77.7 76.7 75.7 74.7 71.7 70.7 70.7 68.6 67.6 65.0 62.3 59.6 56.8	98,700 * 98,700 * 98,700 * 98,700 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300 32,000 28,300 25,400 23,200	Load Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 55.0 60.0 70.0 75.0	80 Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 31,600 28,100 25,200 22,900 20,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 36.0 38.0 40.0 44.0 44.0 45.0 55.0	Boom Angle (deg.) 81.9 81.3 80.0 78.7 77.4 76.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 40,900 38,900 38,900 36,900 32,500	Load Padius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0	81.6 81.6 81.9 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 110,600 88,900 80,200 72,400 66,300 61,300 557,000 552,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900	Load Padius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0	80.8 Rose Angle (deg.) 81.8 Rose 79.7 Rose 77.6 Rose 77.6 Rose 75.4 Rose 66.6 Rose 65.4 Rose 65.5 Solution for Solution fo	360° Rated Load (lbs) 100,800 * 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500	12 Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 42.0 44.0 45.0 55.0 60.0 65.0 75.0	80.6 80.6 79.6 79.6 77.7 76.7 75.7 71.7 70.7 71.7 70.7 70.7 68.6 67.6 67.6 65.0 62.3 59.6 55.8	98,700 * 98,700 * 98,700 * 88,000 * 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 25,400 23,200 21,200	Load Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 46.0 55.0 60.0 75.0 80.0	80. Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000
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 44.0 46.0 48.0 50.0 65.0	Boom Angle (deg.) 81.9 81.9 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9 59.4 55.7 47.4	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 32,500 29,000 26,100	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 34.0 42.0 44.0 46.0 55.0 60.0 65.0 75.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.8 48.8 44.8	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 110,600 88,900 80,200 72,400 66,300 61,300 57,000 527,000 48,900 46,200 43,400 40,700 38,700 38,700 38,700 25,900 23,500 21,400	Load Fadius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 55.0 60.0 65.0 70.0 75.0 80.0	81.8 80.8 77.6 77.6 77.6 77.6 77.4 73.2 72.2 72.1 70.0 68.9 67.8 66.6 65.4 62.5 59.5 56.5 49.9	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600	Load Fadius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 34.0 40.0 44.0 44.0 50.0 55.0 60.0 65.0 70.0 85.0 85.0	80.6 80.6 80.6 79.6 77.7 76.7 75.7 74.7 71.7 70.7 69.7 68.6 67.0 62.3 59.6 56.8 50.8 47.7	98,700 * 94,200 * 88,000 * 79,900 66,100 61,100 52,500 48,700 45,800 36,300 32,000 28,300 25,400 23,200 19,400 17,700	Load Fadius (ft) 24.0 26.0 30.0 32.0 32.0 36.0 40.0 44.0 46.0 48.0 50.0 75.0 80.0 85.0 90.0	80. Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 57.0 54.3 51.6 48.7	360° Rated Load (lbs) 85,100 * 83,900 * 71,900 65,900 65,900 65,600 52,300 48,400 45,600 45,600 42,800 40,000 31,600 28,100 25,200 22,900 20,900 17,500 16,100
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 40.0 42.0 44.0 48.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.9 81.9 80.0 78.7 77.4 76.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4 42.9	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800	Load Padius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0	81.6 81.6 81.6 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 62.8 59.5 56.1 52.5 48.8 44.8	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 52,700 48,900 44,400 40,700 38,700 38,700 38,700 25,900 23,500 21,400 19,600	Load Fadius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 34.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 85.0	80.8 80.8 77.6 77.6 77.6 77.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6 65.4 59.5 56.5 53.2 49.9 46.4 42.6	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 25,900 23,500 21,400 19,600 18,100	Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 42.0 44.0 48.0 50.0 65.0 75.0 85.0 90.0	80.6 80.6 79.6 79.6 77.7 76.7 75.7 74.7 71.7 70.7 69.7 68.6 67.6 62.3 59.6 56.8 53.8 50.8 47.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 25,400 23,200 21,200 19,400 17,700 16,500	Load Padius (ft) 24.0 26.0 28.0 32.0 32.0 34.0 36.0 44.0 46.0 55.0 65.0 67.0 75.0 80.0 90.0	80. Boom Angle (deg.) 81.3 80.4 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000 16,100 15,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 36.0 36.0 38.0 40.0 44.0 44.0 45.0 55.0 60.0 75.0	Boom Angle (deg.) 81.9 81.9 81.7 77.4 76.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4 42.9 37.9	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 533,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800 21,800	Load Padius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 50.0 65.0 70.0 80.0 85.0	81.6 81.6 81.6 81.7 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 62.8 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 110,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 38,700 32,300 22,700 25,900 23,500 21,400 19,600 18,100	Load Padius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 34.0 40.0 44.0 46.0 48.0 50.0 60.0 65.0 70.0 85.0 90.0	80.8 80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 66.6 65.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600 16,800	Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 55.0 60.0 65.0 75.0 85.0 95.0	80.6 80.6 79.6 79.6 77.7 76.7 75.7 74.7 71.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 50.8 50.8 47.7 44.3 40.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,3200 21,200 19,400 17,700 16,500 15,300	Load Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0	80 Boom Angle (deg.) 81.3 80.4 778.6 77.7 76.9 75.0 74.1 73.2 72.2 72.3 70.4 69.4 67.1 64.6 62.2 59.6 657.0 54.3 51.6 48.7 45.6 42.4	360° Rated Load (lbs) 85,100 * 85,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 22,900 20,900 19,000 17,500 16,100 15,000 14,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 40.0 42.0 44.0 48.0 50.0 555.0 60.0 655.0	Boom Angle (deg.) 81.9 81.9 80.0 78.7 77.4 76.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4 42.9	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800	Load Padius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0	81.6 81.6 81.6 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 62.8 59.5 56.1 52.5 48.8 44.8	360° Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 44,400 40,700 38,700 38,700 38,700 25,900 23,500 21,400 19,600	Load Fadius (ft) 20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0	81.8 80.8 77.6 77.6 77.6 77.6 77.4 73.2 72.2 71.1 70.0 68.9 67.8 66.6 65.4 62.5 59.5 56.5 59.5 56.5 49.9 46.4 42.6 33.6 33.1 29.1	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600 18,100 16,800 15,600 14,600	Load Padius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 42.0 44.0 48.0 50.0 65.0 75.0 85.0 90.0	80.6 80.6 79.6 79.6 77.7 76.7 75.7 74.7 71.7 70.7 69.7 68.6 67.6 62.3 59.6 56.8 53.8 50.8 47.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 25,400 23,200 21,200 11,700 16,500 15,300 14,200 12,600	Load Fadius (ft) 24.0 26.0 30.0 32.0 32.0 36.0 40.0 44.0 48.0 50.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0 120.0	80.4 67.1 73.2 71.3 70.4 69.4 67.1 64.6 57.0 51.6 48.7 45.6 42.4 26.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000 16,100 15,000
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 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 69.4 68.0 65.2 63.8 62.4 60.9 55.7 51.7 47.4 42.9 37.9 32.2	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 40,500 43,700 40,900 38,900 38,900 32,500 29,000 26,100 23,800 20,100	Load Padius (ft) 19.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	81.6 81.6 81.9 79.9 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0	360° Rated Load (lbs) 125,600 * 125,600 * 112,200 * 110,600 88,900 80,200 72,400 66,300 61,300 557,000 552,700 48,900 46,200 43,400 40,700 38,700 32,300 225,900 23,500 21,400 19,600 18,100 16,900	Load Padius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 67.0 90.0 95.0	80.8 Rose Angle (deg.) 81.8 Rose 79.7 Rose 77.6 Rose 77.6 Rose 75.4 Rose 66.6 Rose 65.4 Rose 65.5 Rose 65.	360° Rated Load (lbs) 100,800 * 100,800 * 100,800 * 96,500 * 88,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 33,700 36,600 32,300 22,500 21,400 19,600 18,100 16,800 15,600	12 Load Padius (ft) 22.0 24.0 24.0 28.0 30.0 32.0 34.0 42.0 44.0 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0	81.6 80.6 79.6 78.6 77.7 75.7 75.7 74.7 73.7 72.7 71.7 70.7 69.7 68.6 65.0 65.0 65.8 53.8 53.8 47.7 44.3 40.7 40.3	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 28,300 25,400 23,200 21,200 19,400 17,700 16,500 15,300 14,200	Load Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 44.0 45.0 65.0 60.0 65.0 75.0 85.0 90.0 110.0	80.4 Response 80.4 Response 81.3 Response 80.4 Response 77.7 Response 75.9 Response 75.9 Response 76.4 Response 76.4 Response 76.4 Response 76.4 Response 76.5 Response 76.6 Response 76.6 Response 76.6 Response 76.7 Response 76.8 Response 76.9 Response	360° Rated Load (lbs) 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 20,900 17,500 16,100 15,000 14,000 12,100

Note: Designed and rated to comply with ANSI Code B30.5 Capacities based on factors other than machine stability such as structural competence are shown by asterisk *in the charts. Refer to notes on page 20.



Main Boom Lift Capacity

14	0' Boo		15	0' Boo		16	0' Boo	om	17	0' Boo	om	18	0' Boo	om
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius (ft)	Angle (deg.)	Rated Load (lbs)	Radius (ft)	Angle (deg.)	Rated Load (lbs)	Radius (ft)	Angle (deg.)	Rated Load (lbs)	Radius (ft)	Angle (deg.)	Rated Load (lbs)	Radius (ft)	Angle (deg.)	Rated Load (lbs)
24.0	81.9	72,900 *	26.0	81.7	62,200 *	28.0	81.5	50,200 *	30.0	81.3	44,500 *	30.0	81.8	39,300 *
26.0	81.1	71,800 *	28.0	80.9	61,300 *	30.0	80.8	50,100 *	32.0	80.7	43,900 *	32.0	81.2	38,800 *
28.0 30.0	80.3	70,800 *	30.0	80.1	60,400 *	32.0	80.1	49,700 *	34.0	80.0	43,200 *	34.0	80.5	38,200 *
32.0	79.4 78.6	69,000 * 64,700 *	32.0 34.0	79.4 78.6	59,400 * 57,200 *	34.0 36.0	79.4 78.6	49,200 * 48,500 *	36.0 38.0	79.3 78.6	42,500 * 41,900 *	36.0 38.0	79.9 79.2	37,600 * 37,000 *
34.0	77.8	60,500	36.0	77.8	54,100 *	38.0	77.9	47,800 *	40.0	77.9	41,200 *	40.0	78.6	36,400 *
36.0 38.0	76.9 76.1	56,200 52,000	38.0 40.0	77.0 76.3	51,000 * 48,000	40.0 42.0	77.2 76.4	46,600 * 44,300 *	42.0 44.0	77.2 76.5	40,600 * 40,000 *	42.0 44.0	77.9 77.2	35,800 * 35.100 *
40.0	75.2	48,200	42.0	75.5	45,200	44.0	75.6	42,100 *	46.0	75.8	39,300 *	46.0	76.6	34,500 *
42.0 44.0	74.4 73.5	45,400 42,600	44.0 46.0	74.7 73.9	42,400 39,600	46.0 48.0	74.9 74.1	39,800 37,800	48.0 50.0	75.1 74.4	37,400 * 35,400 *	48.0 50.0	75.9 75.3	33,900 * 33,300 *
46.0	72.7	39,800	48.0	73.9	37,500	50.0	73.4	35,800	55.0	72.6	31,200	55.0	73.3	30,800 *
48.0	71.8	37,800	50.0	72.3	35,500	55.0	71.5	31,400	60.0	70.9	27,600	60.0	72.0	27,400
50.0 55.0	71.0 68.8	35,800 31,400	55.0 60.0	70.3 68.2	31,200 27,600	60.0 65.0	69.6 67.7	27,800 25,000	65.0 70.0	69.1 67.3	24,600 22,300	65.0 70.0	70.3 68.6	24,400 21,900
60.0	66.6	27,800	65.0	66.2	24,800	70.0	65.8	22,600	75.0	65.4	20,300	75.0	66.9	19,900
65.0 70.0	64.3 62.0	25,000 22,600	70.0 75.0	64.0 61.9	22,400 20,300	75.0 80.0	63.8 61.8	20,500 18,700	80.0 85.0	63.5 61.6	18,500 16,800	80.0 85.0	65.2 63.4	18,100 16,600
75.0	59.7	20,500	80.0	59.6	18,500	85.0	59.7	17,000	90.0	59.7	15,400	90.0	61.6	15,200
80.0 85.0	57.3 54.8	18,700 17,200	85.0 90.0	57.4 55.2	17,000 15,700	90.0 95.0	57.6 55.4	15,700 14,500	95.0 100.0	57.8 55.8	14,300 13,300	95.0 100.0	59.8 57.9	14,000 12,900
90.0	52.2	15,900	95.0	52.8	14,400	100.0	53.4	13,500	1100.0	51.5	11,500	110.0	54.0	12,900 11,100
95.0 100.0	49.5	14,600 13,600	100.0 110.0	50.3	13,400 11,700	110.0 120.0	48.6	11,700	120.0 130.0	47.0 42.2	9,800	120.0 130.0	49.9	9,600 8,500
110.0	46.8 40.8	11,900	120.0	45.1 39.3	10,300	130.0	43.6 38.1	10,100 8,900	140.0	36.8	8,700 7,700	140.0	45.6 40.9	7,400
120.0	34.0	10,300	130.0	32.8	8,900	140.0	31.6	7,900	150.0	30.5	6,800	150.0	35.7	6,500
130.0 135.0	25.7 20.5	9,200 8,830	140.0	24.3	8,000	150.0	23.7	7,100	160.0	23.2	5,900	160.0 165.0	29.7 26.5	5,600 5,100
-		-,	00 140.0 24 30											-,
Ree	ves	4	Reeves 4			Ree	ves	2	Ree	ves	2	Ree	ves	2
	ves 0' Boo			ves 0' Boo		Ree	ves	2	Ree	ves	2	Ree	ves	2
						Ree	eves	2	Ree	eves	2	Ree	ves	2
Load Radius	0' Boom Boom Angle	360° Rated Load	20 Load Radius	0' Boom Boom Angle	360° Rated Load	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Ree	eves	2	Rec	eves	2	Ree	eves	2
Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs) 34,400 *	Load Radius (ft)	O' Boom Angle (deg.) 81.5	360° Rated Load (lbs) 30,300 *	Ree	eves	2	Rec	eves	2	Ree	eves	2
Load Radius (ft) 32.0 34.0 36.0	0' Boom Angle (deg.) 81.6 81.0 80.4	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 *	Load Radius (ft) 34.0 36.0 38.0	0' Boom Angle (deg.) 81.5 80.9 80.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 *	Ree	eves	2	Rec	eves	2	Ree	eves	2
19 Load Radius (ft) 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0	81.5 80.3 80.3 80.9	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 *	Ree	eves	2	Rec	eves	2	Ree	eves	2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0	81.6 81.0 80.4 79.8 79.2 78.6	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,200 * 31,700 *	Load Radius (ft) 34.0 36.0 38.0	81.5 80.9 80.3 79.7 79.1 78.6	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 *	Ree	ves	2	Ree	ves	2	Rec	ves	2
19 Load Padius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 *	Ree	ves	2	Rec	eves	2	Ree	ves	2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0	81.6 81.0 80.4 79.8 79.2 78.6	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,200 * 31,700 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0	81.5 80.9 80.3 79.7 79.1 78.6	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 *	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 40.0 42.0 44.0 48.0 50.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7	360° Rated Load (lbs) 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 24,900 *	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 46.0 45.0 55.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 *	20 Load Padius (ft) 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 60.0	80.9 80.7 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 *	Ree	eves	2	Rec	eves	2	Ree	ves	2
19 Load Radius (ft) 32.0 36.0 36.0 40.0 42.0 44.0 48.0 50.0 60.0 65.0	0' Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 *	20 Load Fadius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0	0' Boom Angle (deg.) 81.5 80.9 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 *	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 46.0 55.0 60.0 65.0 70.0	81.6 81.6 81.6 81.9 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800	20 Load Fadius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 50.0 55.0 60.0 75.0	80.3 80.3 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 *	Ree	eves	2	Rec	eves	2	Ree	ves	2
19 Load Radius (ft) 32.0 36.0 36.0 40.0 42.0 44.0 48.0 50.0 60.0 65.0	0' Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 *	20 Load Fadius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0	0' Boom Angle (deg.) 81.5 80.9 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 *	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 65.0 70.0 75.0 80.0 85.0	81.6 81.0 81.6 81.0 79.8 79.2 78.6 77.4 76.7 76.7 76.7 76.7 76.7 76.9 86.9 66.5 64.9	360° Rated Load (lbs) 34,400 * 33,800 * 33,800 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 24,000 * 24,000 * 21,800 19,900 18,000 16,400	20 Load Padius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0	81.5 80.9 81.5 80.3 79.7 79.1 78.6 77.4 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 36.0 40.0 42.0 44.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0	81.6 81.0 81.6 81.0 81.6 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800 19,900 18,000 15,000	20 Load Fadius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 55.0 65.0 67.0 75.0 80.0 90.0 95.0	81.5 80.9 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 * 24,900 * 21,500 * 21,500 * 21,500 * 17,100 * 15,900 * 14,700 13,500	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0 65.0 65.0 670.0 75.0 80.0 90.0 95.0	81.6 81.0 81.6 81.0 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 15,000 13,900 12,900	Load Padius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 85.0 90.0 90.0 110.0	80.9 81.5 80.9 81.5 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 44.0 55.0 65.0 70.0 75.0 80.0 85.0 90.0 91.0 100.0	81.6 81.0 81.6 81.0 79.8 79.2 78.6 77.4 76.7 76.7 76.7 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 24,000 * 24,000 * 21,800 19,900 16,400 15,000 12,900 11,000	Load Padius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 70.0 75.0 80.0 90.0 90.0 100.0 110.0 120.0	81.5 80.9 81.5 80.9 80.3 79.7 79.1 78.6 77.4 76.8 75.3 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.6	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 26,300 * 26,300 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200	Ree	eves	2	Rec	eves	2	Ree	ves	2
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0 65.0 65.0 670.0 75.0 80.0 90.0 95.0	81.6 81.0 81.6 81.0 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 15,000 13,900 12,900	Load Padius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 85.0 90.0 90.0 110.0	80.9 81.5 80.9 81.5 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600	Ree	eves	2	Rec	eves	2	Ree	ves	
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 65.0 65.0 75.0 80.0 95.0 100.0 110.0 120.0 140.0	81.6 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 68.2 66.5 64.9 63.2 61.5 59.7 56.2 59.7 54.3	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 28,100 * 21,800 19,900 18,000 15,000 15,000 11,000 9,400 8,200 7,200	20 Load Fadius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 75.0 80.0 75.0 100.0 110.0 110.0 130.0 150.0	80.3 79.7 79.1 78.6 78.0 67.8 75.3 73.8 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.0 51.1 47.2 43.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500 5,200 *	Ree	eves	2	Rec	eves		Ree	ves	
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 65.0 60.0 65.0 90.0 95.0 100.0 110.0 120.0 130.0 150.0	81.6 81.6 81.6 81.6 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 48.5	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 16,400 15,000 13,900 11,000 9,400 8,200 7,200 6,300	20 Load Fadius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 110.0 110.0 130.0 140.0	80.5 80.9 81.5 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 63.0 61.4 58.1 54.1 54.2	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,800 * 24,900 * 23,200 * 21,500 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	Ree	eves	2	Rec	eves	2	Ree	ves	
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 65.0 65.0 75.0 80.0 95.0 100.0 110.0 120.0 140.0	81.6 81.0 81.6 81.0 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 44.3 39.7	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 28,100 * 21,800 19,900 18,000 15,000 15,000 11,000 9,400 8,200 7,200	20 Load Fadius (ft) 34.0 36.0 38.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 75.0 80.0 75.0 100.0 110.0 110.0 130.0 150.0	80.3 79.7 79.1 78.6 78.0 67.8 75.3 73.8 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.0 51.1 47.2 43.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500 5,200 *	Ree	eves	2	Rec	eves	2	Ree	ves	2

Note: Designed and rated to comply with ANSI Code B30.5 Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts. Refer to notes on page 20.



Fixed Jib Lift Capacity

	80	' Boor	n																				
		30 f	t Jib					40 f							t Jib					60 1	t Jib		
		D⊡set An	gle (d	• /				D⊡set An	gle (d	• /				D⊡set An	gle (d					O⊡set Ar	igle (d	0,	
oad	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rate
adius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Loa (lbs
30.0 32.0	79.3 78.0	24,000* 24,000 *				34.0 36.0	79.3 78.3	24,000* 24,000 *				38.0 40.0	79.3 78.4	20,000* 20,000 *				40.0 45.0	79.8 77.7	18,000* 18,000 *			
34.0	77.0	24,000*				38.0	77.4	24,000*				45.0	76.1	20,000*				50.0	75.6	17,850*			
36.0	75.9	24,000*				40.0	76.4	24,000*			4=0400	50.0	73.8	20,000*				55.0	73.3	16,180*			
38.0 40.0	74.9 73.8	24,000* 24,000 *	38.0 40.0	79.6 78.5	21,000* 21,000 *	45.0 50.0	73.9 71.4	24,000* 24,000 *	45.0 50.0	79.7 77.1	15,360* 14,480 *	55.0 60.0	71.3 68.9	18,560* 17,080 *	55.0 60.0	78.0 75.5	11,080* 10,490 *	60.0 65.0	71.2 69.0	14,850* 13,730 *	60.0 65.0	78.7 76.4	8,95 8,48
45.0	71.1	24,000*	45.0	75.7	20,700*	55.0	68.7	22,480*	55.0	74.3	13,640*	65.0	66.5	15,800*	65.0	73.0	9,980*	70.0	66.7	12,760*	70.0	74.1	8,06
50.0	68.3	24,000*	50.0	72.8	19,510*	60.0	66.1	20,700*	60.0	71.6	12,980*	70.0	64.0	14,720*	70.0	70.4	9,540*	75.0	64.3	11,860*	75.0	71.5	7,67
55.0	65.3	24,000*	55.0	69.7	18,380*	65.0	63.4	19,180*	65.0	68.8	12,360*	75.0	61.3	13,710*	75.0	67.6	9,100*	80.0	61.9	11,130*	80.0	69.0	7,34
60.0 65.0	62.4 59.3	24,000* 22,920	60.0 65.0	66.7 63.6	17,500* 16,710*	70.0 75.0	60.6 57.6	17,870* 16,660*	70.0 75.0	65.9 62.7	11,830 * 11,350*	80.0 85.0	58.7 56.0	12,870* 12,140*	80.0 85.0	64.8 62.0	8,730* 8,420*	85.0 90.0	59.5 57.0	10,470* 9,870*	85.0 90.0	66.5 63.9	7,03
70.0	56.2	20,810	70.0	60.3	16,020*	80.0	54.6	15,670*	80.0	59.6	10,930*	90.0	53.2	11,500*	90.0	59.0	8,130*	95.0	54.2	9,320*	95.0	60.9	6,50
75.0	52.8	18,910	75.0	56.7	15,380*	85.0	51.5	14,810*	85.0	56.3	10,560*	95.0	50.0	10,890*	95.0	55.6	7,840*	100.0	51.5	8,860*	100.0	58.1	6,28
80.0	49.3	17,370	80.0	53.1	14,850*	90.0	48.3	14,040*	90.0	52.9	10,250*	100.0	46.9	10,360*	100.0	52.3	7,620*	105.0	48.7	8,440*	105.0	55.0	6,10
85.0 90.0	45.7 41.8	16,020 14,850				95.0 100.0	44.6 40.8	13,310* 12,690 *				105.0 110.0	43.6 40.0	9,890* 9,470 *				110.0 115.0	45.7 42.3	8,060* 7,690 *	110.0	51.8	5,93
95.0	37.2	13,750				105.0	36.7	12,120				115.0	35.8	9,080*				120.0	38.8	7,380*			
0.00	32.4	12,830				110.0	32.1	11,350*										125.0	35.1	7,120*			
Ree	eves 90	1 'Boor		ves	1	Ree	ves	1	Rec	eves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1	Rec	eves	1
			t Jib																				
	(onset An						40 f	t Jib					50 f	t Jib					60 1	ft Jib		
	10	J_0017111	gle (d	eg.)			(40 f D⊡set An		leg.)			(50 f D⊡set An		eg.)			(60 t O⊡set An		eg.)	
004				30		Lood	10	D∷set An	gle (d	30	Detect	Lood	10	o set An	gle (de	30	Detad	Lood	10	O⊡set An	igle (d	30	Doto
Load adius (ft)	Boom Angle (deg.)	Rated Load (lbs)	gle (d Load Radius (ft)	30 Boom	Rated Load (lbs)	Load Radius (ft)				30 Boom	Rated Load (lbs)	Load Radius (ft)				• /	Rated Load (lbs)	Load Radius (ft)		O⊡set An		30 Boom	Rate Load (lbs)
adius (ft) 32.0	Boom Angle (deg.) 79.1	Pated Load (lbs) 24,000*	Load Radius	30 Boom Angle	Rated Load	Radius (ft) 36.0	Boom Angle (deg.) 79.3	Rated Load (lbs) 24,000*	gle (d Load Radius	30 Boom Angle	Load	Radius (ft) 38.0	Boom Angle (deg.)	Pated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Load	Radius (ft) 45.0	Boom Angle (deg.) 78.6	Pated Load (lbs) 18,000*	Load Radius	30 Boom Angle	Loa
32.0 34.0	Boom Angle (deg.) 79.1 78.1	Rated Load (lbs) 24,000* 24,000*	Load Radius	30 Boom Angle	Rated Load	784 Adius (ft) 36.0 38.0	79.3 78.4	Pated Load (lbs) 24,000*	gle (d Load Radius	30 Boom Angle	Load	78.0 38.0 40.0	10 Boom Angle (deg.) 80.0 79.2	Rated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Load	### Adius (ft) 45.0 50.0	78.6 76.6	Rated Load (lbs) 18,000* 18,000*	Load Radius	30 Boom Angle	Loa
32.0 34.0 36.0	Boom Angle (deg.) 79.1	Pated Load (lbs) 24,000*	Load Radius	30 Boom Angle	Rated Load	Radius (ft) 36.0	Boom Angle (deg.) 79.3	Rated Load (lbs) 24,000*	gle (d Load Radius	30 Boom Angle	Load	Radius (ft) 38.0	Boom Angle (deg.)	Pated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Load	Radius (ft) 45.0	Boom Angle (deg.) 78.6	Pated Load (lbs) 18,000*	Load Radius	30 Boom Angle	Loa
32.0 34.0 36.0 38.0 40.0	79.1 77.1 76.2 75.2	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)	30 Boom Angle (deg.)	Rated Load (lbs)	36.0 38.0 40.0 45.0 50.0	79.3 78.4 77.5 75.2 72.9	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)	Boom Angle (deg.)	Load (lbs)	38.0 40.0 45.0 55.0	80.0 79.2 77.1 75.0 72.7	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550*	Load Radius (ft)	30 Boom Angle (deg.)	Load (lbs)	45.0 50.0 55.0 60.0 65.0	78.6 76.6 74.5 70.5	Rated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460*	Load Radius (ft)	30 Boom Angle (deg.) 79.5 77.4	9,10 8,66
32.0 34.0 36.0 38.0 40.0 45.0	79.1 78.1 77.1 76.2 75.2 72.7	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Padius (ft) 40.0 45.0	30 Boom Angle (deg.) 79.5 77.0	Rated Load (lbs) 21,000* 21,000*	36.0 38.0 40.0 45.0 50.0 55.0	79.3 78.4 77.5 75.2 72.9	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)	30 Boom Angle (deg.) 78.2 75.6	Load (lbs) 14,810* 14,020*	38.0 40.0 45.0 50.0 55.0 60.0	80.0 79.2 77.1 75.0 72.7 70.5	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 18,000*	Load Radius (ft) 55.0 60.0	30 Boom Angle (deg.) 78.9 76.7	Load (lbs) 11,300* 10,730*	45.0 50.0 55.0 60.0 65.0 70.0	78.6 76.6 72.5 70.5	Rated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470*	Load Radius (ft) 60.0 65.0 70.0	30 Boom Angle (deg.) 79.5 77.4 75.3	9,10 8,66 8,24
32.0 34.0 36.0 38.0 40.0 45.0	79.1 78.1 77.1 76.2 75.2 70.2	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Padius (ft) 40.0 45.0 50.0	30 Boom Angle (deg.) 79.5 77.0 74.4	21,000* 21,000* 20,100*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 60.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 23,890* 22,020*	Load Radius (ft)	30 Boom Angle (deg.) 78.2 75.6 73.2	14,810* 14,020* 13,330*	Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0	80.0 79.2 77.1 75.0 72.7 70.5 68.3	Pated Load (lbs) 20,000* 20,000* 20,000* 19,550* 18,000* 16,730*	Load Radius (ft) 55.0 60.0 65.0	30 Boom Angle (deg.) 78.9 76.7 74.4	11,300* 10,730* 10,250*	### Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0	78.6 76.6 74.5 72.5 70.5 68.4 66.1	Rated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520*	Load Radius (ft) 60.0 65.0 70.0 75.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9	9,10 8,66 8,24 7,87
adius	79.1 78.1 77.1 76.2 75.2 72.7	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Padius (ft) 40.0 45.0	30 Boom Angle (deg.) 79.5 77.0	Rated Load (lbs) 21,000* 21,000*	36.0 38.0 40.0 45.0 50.0 55.0	79.3 78.4 77.5 75.2 72.9	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)	30 Boom Angle (deg.) 78.2 75.6	Load (lbs) 14,810* 14,020*	38.0 40.0 45.0 50.0 55.0 60.0	80.0 79.2 77.1 75.0 72.7 70.5	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 18,000*	Load Radius (ft) 55.0 60.0	30 Boom Angle (deg.) 78.9 76.7	Load (lbs) 11,300* 10,730*	45.0 50.0 55.0 60.0 65.0 70.0	78.6 76.6 72.5 70.5	Rated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470*	Load Radius (ft) 60.0 65.0 70.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9	9,10 8,66 8,24
32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2	Rated Load (/bs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,660	Load Padius (ft) 40.0 45.0 50.0 60.0 65.0	79.5 77.0 74.4 71.6 68.9 66.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 17,320*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760*	50.0 55.0 60.0 70.0 75.0	78.2 75.6 73.2 76.1 65.3	14,810* 14,020* 13,330* 12,760* 12,230* 11,720*	Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0	78.9 76.7 74.4 72.0 69.5 67.0	11,300* 10,730* 10,730* 10,250* 9,780* 9,360* 8,990*	Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5	Rated Load (lbs) 18,000* 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470*	60.0 65.0 70.0 85.0 90.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0	9,10 8,66 8,24 7,87 7,23 6,96
32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 70.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 20,540	Load Radius (ft) 40.0 45.0 50.0 60.0 65.0 70.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 17,320* 16,620*	Radius 36.0 38.0 40.0 45.0 50.0 55.0 60.0 70.0 75.0 80.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 16,730*	50.0 55.0 60.0 65.0 70.0 75.0 80.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5	14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300*	Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3 58.8	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,660* 12,890*	55.0 60.0 65.0 75.0 80.0 85.0	78.9 76.7 74.4 72.0 69.5 67.0 64.5	11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680*	### Addius (ft) ### Addius (ft	78.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1	Rated Load (lbs) 18,000* 18,000* 18,000* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890*	60.0 65.0 70.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4	9,10 8,66 8,24 7,87 7,53 7,23 6,96 6,70
34.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4	Rated Load (/bs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,660	Load Padius (ft) 40.0 45.0 50.0 60.0 65.0	79.5 77.0 74.4 71.6 68.9 66.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 17,320*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760*	50.0 55.0 60.0 70.0 75.0	78.2 75.6 73.2 76.1 65.3	14,810* 14,020* 13,330* 12,760* 12,230* 11,720*	Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0	78.9 76.7 74.4 72.0 69.5 67.0	11,300* 10,730* 10,730* 10,250* 9,780* 9,360* 8,990*	Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1	Rated Load (lbs) 18,000* 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470*	60.0 65.0 70.0 85.0 90.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4	9,10 8,66 8,24 7,87 7,53
32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 80.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4 53.5 50.4	Rated Load (flbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 12,006* 17,080 15,760	40.0 45.0 50.0 60.0 65.0 70.0 75.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 17,320* 16,620* 15,960*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 117,760* 15,800* 14,740 13,620	gle (d Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7	14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930*	8.0 40.0 45.0 55.0 66.0 75.0 80.0 85.0 90.0 95.0	100 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3 58.8 56.3 53.6 50.9	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,669* 12,210* 11,570* 11,020*	Load Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	### Radius (ft) ### 45.0 ### 55.0 ### 66.0 ### 65.0 ### 75.0 ### 85.0 ### 95.0 ### 100.0 ### 100.0 ### 110	78.6 (deg.) 78.6 74.5 72.5 70.5 68.4 66.1 64.0 59.5 57.1 54.7 52.2 49.6	Pated Load (/lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390* 8,950* 8,550*	Control (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,10 8,666 8,24 7,87 7,53 7,23 6,96 6,70 6,48 6,28 6,10
32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0	79.1 76.2 75.2 72.7 70.2 67.5 64.9 66.4 53.5 50.4 47.1	Rated Load (flbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,600 17,080 15,760 14,570	40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft) 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	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 15,800* 14,740 13,620 12,690	50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	8.0 40.0 45.0 55.0 66.0 75.0 80.0 85.0 90.0 95.0 100.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 68.3 66.1 63.6 61.3 58.8 553.6 50.9 48.0	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,660* 12,210* 11,570* 11,020* 10,530*	55.0 60.0 65.0 70.0 85.0 90.0 95.0	78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9	11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110*	### Radius (ft) ### 45.0 ### 55.0 ### 66.0 ### 65.0 ### 75.0 ### 65.0 ### 75.0 ###	78.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7	Pated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,390* 9,390* 8,950* 8,550* 8,150*	60.0 65.0 70.0 75.0 80.0 95.0 100.0	79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,10 8,66 8,24 7,87 7,53 7,23 6,96 6,70 6,44 6,28
dius (ft) 32.0 34.0 336.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0	79.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 47.1 43.4	Rated Load (flbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,660 20,540 11,080 15,760 14,570 13,470	40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 67.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	70 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0 42.7	Rated Load (lbs) (24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 15,800* 16,730* 14,740 13,620 12,690 11,860	50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	Redius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 110.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 68.3 66.1 63.6 61.3 58.8 55.3 53.6 50.9 48.0 45.1	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,660* 12,210* 11,570* 11,020* 10,530* 10,070*	Load Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	### Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 115.0 120.0	78.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7 43.8	Pated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 12,520* 11,770* 11,080* 10,470* 9,890* 8,950* 8,950* 8,150* 7,820*	Control (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,10 8,66 8,22 7,87 7,53 6,96 6,70 6,48 6,28 6,10
dius ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 70.0 75.0 80.0 90.0	79.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 47.1 43.4 39.7	Rated Load (flbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,600 17,080 15,760 14,570	40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft) 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	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 15,800* 14,740 13,620 12,690	50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	8.0 40.0 45.0 55.0 66.0 75.0 80.0 85.0 90.0 95.0 100.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 68.3 66.1 63.6 61.3 58.8 553.6 50.9 48.0	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,660* 12,210* 11,570* 11,020* 10,530*	Load Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	### Radius (ft) ### 45.0 ### 55.0 ### 66.0 ### 65.0 ### 75.0 ### 65.0 ### 75.0 ###	78.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 75.1 54.7 52.2 49.6 46.7 43.8 40.7	Pated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,390* 9,390* 8,950* 8,550* 8,150*	Control (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,10 8,66 8,22 7,87 7,53 6,96 6,70 6,48 6,28 6,10
dius ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 70.0 75.0 30.0 90.0 95.0	79.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 47.1 43.4 39.7	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,660 20,540 15,760 14,570 13,470 12,540	40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Redius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.3 78.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0 42.7 39.1	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 17,760* 15,800* 11,860 11,080	50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	Radius (ft) 38.0 40.0 45.0 55.0 60.0 75.0 80.0 95.0 100.0 110.0 115.0	70.5 68.3 66.1 63.6 61.3 53.6 65.9 48.0 45.1 41.7	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,240* 11,570* 11,020* 10,530* 10,070* 9,650*	Load Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	Redius (ft) 45.0 55.0 60.0 65.0 65.0 77.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0	78.6 76.6 76.6 76.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7 43.8 40.7 37.4	Pated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390* 8,550* 8,150* 7,820* 7,530*	Control (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,11 8,66 8,24 7,85 7,23 6,91 6,74 6,28 6,11
dius ft) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 70.0 75.0 30.0 90.0 95.0	79.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 47.1 43.4 39.7	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,660 20,540 15,760 14,570 13,470 12,540	40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Redius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.3 78.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0 42.7 39.1	Rated Load (/lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 17,760* 15,800* 11,860 11,080	50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	Redius (ft) 38.0 40.0 45.0 50.0 65.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0	70.5 68.3 66.1 63.6 61.3 53.6 65.9 48.0 45.1 41.7 38.2	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,890* 12,210* 11,570* 11,020* 10,530* 10,070* 9,650* 9,300*	Load Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	Redius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 130.0	78.6 76.6 76.6 76.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7 43.8 40.7 37.4	Rated Load (lbs) 18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,390* 9,390* 8,550* 8,550* 8,150* 7,820* 7,530* 7,270*	Control (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,11 8,60 8,22 7,8 7,5 7,2 6,9 6,7 6,4 6,2 6,1

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

Capacities based on factors other than machine stability such as structural competence are shown by a sterisk * in the charts. Refer to notes on page 20.



Fixed Jib Lift Capacity

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

	100)' Boo																					
		30 t	t Jib						t Jib						t Jib						t Jib		
		O⊡set An	gle (d					O⊡set An	gle (de	-				oset An	gle (de	-				O⊡set An	igle (d ⊤		
oad	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rate
adius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Loa (lbs
32.0 34.0	79.9 79.0	24,000* 24,000 *				36.0 38.0	80.0 79.2	24,000* 24,000 *				40.0 45.0	79.9 78.0	20,000* 20,000 *				45.0 50.0	79.3 77.5	18,000* 18,000 *			
36.0	78.1	24,000*				40.0	78.4	24,000*				50.0	76.0	20,000*				55.0	75.5	17,720*			
38.0	77.2	24,000*				45.0	76.3	24,000*	500	70.1	15 100*	55.0	73.9	20,000*	55.0	79.7 77.7	11,500 * 10,950*	60.0	73.7 71.8	16,350*	(5.0	70.2	
40.0 45.0	76.4 74.1	24,000* 24,000 *	45.0	78.0	21,000*	50.0 55.0	74.2 71.9	24,000* 24,000 *	50.0 55.0	79.1 76.7	15,100* 14,320 *	60.0 65.0	71.9 69.9	18,930* 17,590 *	60.0 65.0	75.5	10,950*	65.0 70.0	69.9	15,160* 14,130 *	65.0 70.0	78.3 76.3	8,8°
50.0	71.8	24,000*	50.0	75.7	20,650*	60.0	69.7	23,280*	60.0	74.5	13,660*	70.0	67.8	16,420*	70.0	73.4	10,030*	75.0	67.8	13,160*	75.0	74.2	8,0
55.0	69.3	24,000*	55.0	73.2	19,570*	65.0	67.5	21,620*	65.0	72.2	13,090*	75.0	65.6	15,340*	75.0	71.1	9,610*	80.0	65.8	12,360*	80.0	72.1	7,7
60.0	67.0	24,000*	60.0	70.7	18,690*	70.0	65.3	20,190*	70.0	69.9	12,560*	80.0	63.4	14,440*	80.0	68.8	9,230*	85.0	63.8	11,660*	85.0	70.0	7,4
65.0 70.0	64.5 62.1	22,440 20,320	65.0 70.0	68.2 65.7	17,900* 17,190*	75.0 80.0	62.8 60.4	18,620 17,060	75.0 80.0	67.3 64.9	12,050* 11,640*	85.0 90.0	61.2 59.0	13,640* 12,910*	85.0 90.0	66.5 64.2	8,920* 8,610*	90.0 95.0	61.7 59.5	11,040* 10,420*	90.0 95.0	67.9 65.5	7,1 6,9
75.0	59.4	18,400	75.0	62.9	16,510*	85.0	58.0	15,710	85.0	62.4	11,260*	95.0	56.5	12,230*	95.0	61.6	8,330*	100.0	57.3	9,920*	100.0	63.2	6,6
80.0	56.7	16,860	80.0	60.2	15,960*	90.0	55.5	14,500	90.0	59.8	10,910*	100.0	54.1	11,660*	100.0	59.1	8,090*	105.0	55.1	9,450*	105.0	60.9	6,4
85.0	54.0	15,520	85.0	57.4	15,450*	95.0	52.8	13,380	95.0	56.9	10,580*	105.0	51.6	11,150*	105.0	56.4	7,870*	110.0	52.7	9,030*	110.0	58.4	6,2
90.0	51.2	14,320	90.0	54.5	14,570	100.0	50.1	12,450	100.0	54.0	10,310*	110.0	49.0	10,670*	110.0	53.7	7,690*	115.0	50.2	8,610*	115.0	55.7	6,10
95.0 00.0	48.1 45.0	13,220 12,270	95.0	51.2	13,420	105.0 110.0	47.2 44.3	11,590 10,840				115.0 120.0	46.1 43.2	10,200 * 9,590				120.0 125.0	47.7 45.1	8,280* 7,950*	120.0	53.1	5,9
05.0	41.7	11,460				115.0	40.9	10,110				125.0	40.2	9,010				130.0	42.3	7,670*			
110.0	38.1	10,690				120.0	37.4	9,470				130.0	36.8	8,480				135.0	39.4	7,400*			
15.0	34.0	9,980				125.0	33.7	8,860*				135.0	33.2	7,800*				140.0 145.0	35.9 32.4	7,140* 6,810*			
Rec	eves 110	1)' Boo	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Rec	eves	1
		30 t	t Jib						t Jib						t Jib						t Jib		
	10	O∷set An	igie (a	eg.) 30			10	D□set An	gie (a	eg.) 30			10	D⊡set An	igie (ai	3 9.) 30			10	O∷set An	igie (a 	eg.) 30	
Load	Boom	Rated	Load	Boom	Rated	Load	Boom	Rated	Load	Boom	Rated	Load	Boom	Rated	Load	Boom	Rated	Load	Boom	Rated	Load	Boom	Rate
adius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Loa (lbs
34.0 36.0	79.8 79.0	24,000* 24,000 *				38.0 40.0	79.9 79.2	24,000* 24,000 *				45.0 50.0	78.8 76.9	20,000* 20,000 *				45.0 50.0	80.0 78.3	18,000* 18,000 *			
38.0	78.2	24,000*				45.0	77.2	24,000*				55.0	75.0	20,000*				55.0	76.4	18,000*			
	77.3	24,000*							50.0	79.9	15,360*	60.0	73.1	19,810*	60.0	78.5	11,150*	60.0	74.7	17,040*			
40.0	11.0	24,000				50.0	75.3	24,000*			,	00.0		,					72.0	15 0204			8,97
45.0	75.3	24,000*	45.0	79.0	21,000*	55.0	73.2	24,000*	55.0	77.7	14,610*	65.0	71.2	18,430*	65.0	76.5	10,670*	65.0	72.9	15,820*	65.0	79.1	
45.0 50.0	75.3 73.2	24,000* 24,000 *	50.0	76.8	21,000*	55.0 60.0	73.2 71.2	24,000* 24,000 *	55.0 60.0	75.6	14,610* 13,970 *	65.0 70.0	71.2 69.3	18,430* 17,230 *	70.0	74.6	10,250*	70.0	71.1	14,770*	70.0	77.2	8,5
45.0 50.0 55.0	75.3 73.2 70.9	24,000* 24,000 * 24,000*	50.0 55.0	76.8 74.5	21,000* 20,100*	55.0 60.0 65.0	73.2 71.2 69.1	24,000* 24,000 * 22,500	55.0 60.0 65.0	75.6 73.5	14,610* 13,970* 13,400*	65.0 70.0 75.0	71.2 69.3 67.2	18,430* 17,230 * 16,110*	70.0 75.0	74.6 72.4	10,250* 9,830*	70.0 75.0	71.1 69.2	14,770* 13,800*	70.0 75.0	77.2 75.2	8,5 8,20
45.0 50.0 55.0 60.0	75.3 73.2 70.9 68.7	24,000* 24,000 *	50.0	76.8 74.5 72.2	21,000*	55.0 60.0	73.2 71.2	24,000* 24,000 *	55.0 60.0	75.6	14,610* 13,970 *	65.0 70.0	71.2 69.3	18,430* 17,230 *	70.0	74.6	10,250*	70.0	71.1	14,770*	70.0	77.2	8,5
55.0 60.0 65.0 70.0	75.3 73.2 70.9 68.7 66.5 64.3	24,000* 24,000* 24,000* 24,000* 22,260 20,150	50.0 55.0 60.0 65.0 70.0	76.8 74.5 72.2 70.0 67.7	21,000* 20,100* 19,220* 18,430* 17,700*	55.0 60.0 65.0 70.0 75.0 80.0	73.2 71.2 69.1 67.1 64.8 62.7	24,000* 24,000* 22,500 20,370 18,450 16,880	55.0 60.0 65.0 70.0 75.0 80.0	75.6 73.5 71.4 69.1 66.9	14,610* 13,970* 13,400* 12,870* 12,380* 11,940*	65.0 70.0 75.0 80.0 85.0 90.0	71.2 69.3 67.2 65.2 63.2 61.2	18,430* 17,230* 16,110* 15,160* 14,350* 13,600*	70.0 75.0 80.0 85.0 90.0	74.6 72.4 70.4 68.3 66.1	10,250* 9,830* 9,470* 9,140* 8,840*	70.0 75.0 80.0 85.0 90.0	71.1 69.2 67.3 65.5 63.6	14,770* 13,800* 12,960* 12,230* 11,590*	70.0 75.0 80.0 85.0 90.0	77.2 75.2 73.3 71.4 69.4	8,5 8,20 7,8 9 7,58 7,3
45.0 50.0 55.0 60.0 65.0 70.0 75.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8	24,000* 24,000* 24,000* 24,000* 22,260 20,150 18,230	50.0 55.0 60.0 65.0 70.0 75.0	76.8 74.5 72.2 70.0 67.7 65.1	21,000* 20,100* 19,220* 18,430* 17,700* 17,040*	55.0 60.0 65.0 70.0 75.0 80.0 85.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520	55.0 60.0 65.0 70.0 75.0 80.0 85.0	75.6 73.5 71.4 69.1 66.9 64.6	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570*	65.0 70.0 75.0 80.0 85.0 90.0 95.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890*	70.0 75.0 80.0 85.0 90.0 95.0	74.6 72.4 70.4 68.3 66.1 63.8	9,830* 9,470* 9,140* 8,840* 8,550*	70.0 75.0 80.0 85.0 90.0 95.0	71.1 69.2 67.3 65.5 63.6 61.5	14,770* 13,800* 12,960* 12,230* 11,590* 10,950*	70.0 75.0 80.0 85.0 90.0 95.0	77.2 75.2 73.3 71.4 69.4 67.2	8,55 8,20 7,89 7,58 7,3 7,09
45.0 55.0 60.0 65.0 70.0 75.0 80.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4	24,000* 24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680	50.0 55.0 60.0 65.0 70.0 75.0 80.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460*	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220*	65.0 70.0 75.0 80.0 85.0 90.0 95.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300*	70.0 75.0 80.0 85.0 90.0 95.0 100.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5	9,830* 9,470* 9,140* 8,840* 8,550* 8,310*	70.0 75.0 80.0 85.0 90.0 95.0 100.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5	14,770* 13,800* 12,960* 12,230* 11,590* 10,950* 10,420*	70.0 75.0 80.0 85.0 90.0 95.0 100.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2	8,5 8,2 7,8 7,5 7,3 7,0 6,8
45.0 55.0 60.0 65.0 70.0 75.0 80.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0	24,000* 24,000* 24,000* 24,000* 22,260 20,150 18,230	50.0 55.0 60.0 65.0 70.0 75.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7	21,000* 20,100* 19,220* 18,430* 17,700* 17,040*	55.0 60.0 65.0 70.0 75.0 80.0 85.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520	55.0 60.0 65.0 70.0 75.0 80.0 85.0	75.6 73.5 71.4 69.1 66.9 64.6	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570*	65.0 70.0 75.0 80.0 85.0 90.0 95.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890*	70.0 75.0 80.0 85.0 90.0 95.0	74.6 72.4 70.4 68.3 66.1 63.8	9,830* 9,470* 9,140* 8,840* 8,550*	70.0 75.0 80.0 85.0 90.0 95.0	71.1 69.2 67.3 65.5 63.6 61.5	14,770* 13,800* 12,960* 12,230* 11,590* 10,950*	70.0 75.0 80.0 85.0 90.0 95.0	77.2 75.2 73.3 71.4 69.4 67.2	8,5 8,2 7,8 7,5 7,3 7,0 6,8 6,6
45.0 50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 95.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8	24,000* 24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680 15,340 14,150 13,020	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460* 15,650 14,440 13,270	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2 55.7 53.3 50.8	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320 13,200 12,250	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2 59.7 57.1 54.5	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220* 10,890*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7 54.5	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300* 11,530	70.0 75.0 80.0 85.0 90.0 95.0 100.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	9,830* 9,470* 9,140* 8,840* 8,550* 8,310* 8,090*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5 57.5	14,770* 13,800* 12,960* 12,230* 11,590* 10,950* 10,420* 9,940* 9,500* 9,080*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2 63.0	8,5 8,2 7,8 7,5 7,3 7,0 6,8 6,6 6,4 6,2
45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8 49.1	24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680 15,340 14,150 13,020 12,100	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460* 15,650 14,440	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2 55.7 53.3 50.8 48.2	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320 13,200 12,250 11,410 10,640	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2 59.7 57.1	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220* 10,890* 10,600*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7 54.5 52.2 49.6 47.1	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300* 11,530 10,780 10,030 9,390	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	10,250* 9,830* 9,470* 9,140* 8,840* 8,550* 8,310* 8,090* 7,890*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 115.0 120.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5 57.5 55.4 53.1 50.9	14,770* 13,800* 12,960* 12,230* 11,590* 10,950* 10,420* 9,940* 9,500* 9,080* 8,700*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 115.0 120.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2 63.0 60.8 58.4 56.1	8,5; 8,20 7,89 7,58 7,3; 7,09 6,8; 6,6; 6,4; 6,2; 6,10
45.0 55.0 60.0 65.0 75.0 85.0 99.0 95.0 00.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8 49.1 46.3	24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680 15,340 14,150 13,020 12,100	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460* 15,650 14,440 13,270	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2 55.7 53.3 50.8 48.2 45.3	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320 13,200 12,250 11,410 10,640 9,920	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2 59.7 57.1 54.5	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220* 10,890* 10,600* 10,330*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7 54.5 52.2 49.6 47.1 44.5	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300* 11,530 10,780 10,030 9,390 8,810	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	10,250* 9,830* 9,470* 9,140* 8,840* 8,550* 8,310* 8,090* 7,890*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 115.0 120.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5 57.5 55.4 53.1 50.9 48.6	14,770* 13,800* 12,960* 12,230* 11,590* 10,950* 10,420* 9,940* 9,500* 9,080* 8,700*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2 63.0 60.8 58.4 56.1	8,5 8,2 7,8 7,5 7,3 7,0 6,8 6,6 6,4 6,2 6,1
45.0 55.0 60.0 65.0 75.0 85.0 90.0 95.0 00.0 10.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8 49.1 46.3 43.3	24,000* 24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680 15,340 14,150 13,020 12,100 11,260 10,510	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460* 15,650 14,440 13,270	55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 115.0 120.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2 55.7 53.3 50.8 48.2 45.3 42.5	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320 13,200 12,250 11,410 10,640 9,920 9,300	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2 59.7 57.1 54.5	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220* 10,890* 10,600* 10,330*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0 130.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7 54.5 52.2 49.6 47.1 44.5 41.8	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300* 11,530 10,780 10,030 9,390 8,810 8,280	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	10,250* 9,830* 9,470* 9,140* 8,840* 8,550* 8,310* 8,090* 7,890*	70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 120.0 125.0 130.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5 57.5 55.4 53.1 50.9 48.6 46.2	14,770* 13,800* 12,960* 12,230* 11,590* 10,420* 9,940* 9,500* 9,080* 8,700* 8,370* 8,060*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 115.0 120.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2 63.0 60.8 58.4 56.1	8,5; 8,20 7,89 7,58 7,3; 7,09 6,8; 6,6; 6,4; 6,2; 6,10
45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 00.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8 49.1 46.3 43.3 39.9	24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680 15,340 14,150 13,020 12,100	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460* 15,650 14,440 13,270	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2 55.7 53.3 50.8 48.2 45.3	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320 13,200 12,250 11,410 10,640 9,920	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2 59.7 57.1 54.5	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220* 10,890* 10,600* 10,330*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7 54.5 52.2 49.6 47.1 44.5	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300* 11,530 10,780 10,030 9,390 8,810	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	10,250* 9,830* 9,470* 9,140* 8,840* 8,550* 8,310* 8,090* 7,890*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 115.0 120.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5 57.5 55.4 53.1 50.9 48.6	14,770* 13,800* 12,960* 12,230* 11,590* 10,950* 10,420* 9,940* 9,500* 9,080* 8,700*	70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 115.0 120.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2 63.0 60.8 58.4 56.1	8,5; 8,20 7,89 7,58 7,3; 7,09 6,8; 6,6; 6,4; 6,2; 6,10
45.0 55.0 66.0 65.0 75.0 85.0 95.0 95.0 05.0 15.0 20.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8 49.1 46.3 43.3 39.9	24,000* 24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680 15,340 14,150 13,020 12,100 11,260 10,510 9,780	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460* 15,650 14,440 13,270	55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 115.0 120.0 125.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2 55.7 53.3 50.8 48.2 45.3 42.5 39.4	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320 13,200 12,250 11,410 10,640 9,920 9,300 8,730	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2 59.7 57.1 54.5	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220* 10,890* 10,600* 10,330*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 135.0 135.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7 54.5 52.2 49.6 47.1 44.5 41.8 38.8	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300* 11,530 10,780 10,030 9,390 8,810 8,280 7,800	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	10,250* 9,830* 9,470* 9,140* 8,840* 8,550* 8,310* 8,090* 7,890*	70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 120.0 135.0 140.0 145.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5 57.5 55.4 53.1 50.9 48.6 46.2 43.6 40.8 37.9	14,770* 13,800* 12,960* 12,230* 11,590* 10,950* 10,420* 9,940* 9,500* 8,700* 8,370* 8,060* 7,780* 7,380 6,960	70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 115.0 120.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2 63.0 60.8 58.4 56.1	8,5; 8,20 7,89 7,58 7,3; 7,09 6,8; 6,6; 6,4; 6,2; 6,10
45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 00.0 05.0 15.0 20.0	75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8 49.1 46.3 43.3 39.9 36.5	24,000* 24,000* 24,000* 24,000* 22,260 20,150 18,230 16,680 15,340 14,150 13,020 12,100 11,260 10,510 9,780 9,170	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	21,000* 20,100* 19,220* 18,430* 17,700* 17,040* 16,460* 15,650 14,440 13,270	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 130.0	73.2 71.2 69.1 67.1 64.8 62.7 60.5 58.2 55.7 53.3 50.8 48.2 45.3 42.5 39.4 36.1	24,000* 24,000* 22,500 20,370 18,450 16,880 15,520 14,320 12,250 11,410 10,640 9,920 9,300 8,730 8,200	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	75.6 73.5 71.4 69.1 66.9 64.6 62.2 59.7 57.1 54.5	14,610* 13,970* 13,400* 12,870* 12,380* 11,940* 11,570* 11,220* 10,890* 10,600* 10,330*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 135.0 135.0	71.2 69.3 67.2 65.2 63.2 61.2 58.9 56.7 54.5 52.2 49.6 47.1 44.5 41.8 38.8	18,430* 17,230* 16,110* 15,160* 14,350* 13,600* 12,890* 12,300* 11,530 10,780 10,030 9,390 8,810 8,280 7,800	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	10,250* 9,830* 9,470* 9,140* 8,840* 8,550* 8,310* 8,090* 7,890*	70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 125.0 135.0 140.0	71.1 69.2 67.3 65.5 63.6 61.5 59.5 57.5 55.4 53.1 50.9 48.6 46.2 43.6 40.8 37.9	14,770* 13,800* 12,960* 12,230* 11,590* 10,950* 10,420* 9,940* 9,500* 9,080* 8,700* 8,370* 8,060* 7,780* 7,380	70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 115.0 120.0	77.2 75.2 73.3 71.4 69.4 67.2 65.2 63.0 60.8 58.4 56.1	8,5 8,20 7,8 9 7,58 7,3

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

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

Refer to notes on page 20.



Fix

	120)' Boo	m																				
		30 f	t Jib					40 f							t Jib						t Jib		
		O⊡set An	gle (d					O⊡set An	gle (d					oset An	gle (d	-				O⊡set An	gle (de	-	
and	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated
Load Padius	Angle	Load	Radius	Angle	Load	Radius	Angle	Load	Radius	Angle	Load	Radius	Angle	Load	Radius	Angle	Load	Radius	Angle	Load	Radius	Angle	Load
(ft) 36.0	(deg.) 79.7	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 40.0	(deg.) 79.9	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 45.0	(deg.) 79.5	(lbs) 20,000*	(ft)	(deg.)	(lbs)	(ft) 50.0	(deg.) 78.9	(lbs) 18,000*	(ft)	(deg.)	(lbs)
38.0	79.7 79.0	24,000* 24,000*				45.0	79.9 78.1	24,000*				50.0	79.5 77.7	20,000*				55.0	77.2	18,000*			
40.0	78.2	24,000*				50.0	76.2	24,000*				55.0	75.9	20,000*				60.0	75.5	17,720*			
45.0	76.3	24,000*	45.0	79.7	21,000*	55.0	74.3	24,000*	55.0	78.5	14,880*	60.0	74.2	20,000*	60.0	79.2	11,330*	65.0	73.9	16,460*	65.0	79.7	9,08
50.0	74.3	24,000*	50.0	77.7	21,000*	60.0	72.4	24,000*	60.0	76.6	14,240*	65.0	72.4	19,240*	65.0	77.4	10,860*	70.0	72.2	15,380*	70.0	78.0	8,70
55.0 60.0	72.2 70.2	24,000* 24,000*	55.0 60.0	75.6 73.5	20,560* 19,680*	65.0 70.0	70.5 68.6	22,240 20,100	65.0 70.0	74.7 72.7	13,690 * 13,160*	70.0 75.0	70.6 68.7	18,010* 16,840*	70.0 75.0	75.6 73.6	10,420* 10,030*	75.0 80.0	70.4 68.7	14,390* 13,550*	75.0 80.0	76.1 74.4	8,35
65.0	68.2	21,970	65.0	71.4	18,910*	75.0	66.5	18,160	75.0	70.6	12,670*	80.0	66.8	15,890*	80.0	71.7	9,670*	85.0	67.0	12,780*	85.0	72.6	7,73
70.0	66.1	19,860	70.0	69.3	18,180*	80.0	64.5	16,620	80.0	68.5	12,250*	85.0	65.0	15,030*	85.0	69.7	9,340*	90.0	65.2	12,120*	90.0	70.7	7,47
75.0	63.9	17,940	75.0	67.0	17,500*	85.0	62.5	15,250	85.0	66.4	11,860*	90.0	63.1	14,190	90.0	67.8	9,060*	95.0	63.3	11,480*	95.0	68.7	7,23
80.0	61.7	16,400	80.0	64.8	16,790	90.0	60.5	14,040	90.0	64.3	11,500*	95.0	61.0	13,050	95.0	65.6	8,770*	100.0	61.5	10,930*	100.0	66.8	7,01
85.0 90.0	59.5 57.3	15,050	85.0 90.0	62.6	15,410	95.0 100.0	58.2 56.0	12,910	95.0 100.0	62.0	11,170*	100.0	59.0 57.0	12,100	100.0 105.0	63.6	8,500*	105.0	59.6 57.7	10,420*	105.0 110.0	64.9	6,79
90.0 95.0	54.8	13,860 12,740	95.0	60.2 57.7	14,170 13,020	105.0	53.8	11,970 11,130	105.0	59.7 57.4	10,860* 10,600 *	105.0 110.0	54.9	11,260 10,490	110.0	61.4 59.3	8,280* 8,060 *	110.0 115.0	55.6	9,960* 9,520 *	115.0	62.9 60.7	6,61 6,41
0.00	52.4	11,790	100.0	55.2	12,050	110.0	51.5	10,360	110.0	55.0	10,360*	115.0	52.6	9,740	115.0	56.8	7,870*	120.0	53.6	9,140*	120.0	58.6	6,26
05.0	49.9	10,950	105.0	52.6	11,170	115.0	48.9	9,630	115.0	52.3	9,870	120.0	50.4	9,100	120.0	54.5	7,690*	125.0	51.5	8,610	125.0	56.4	6,10
10.0	47.3	10,200				120.0	46.5	8,990				125.0	48.1	8,530	125.0	52.1	7,530*	130.0	49.3	8,060	130.0	54.1	5,97
15.0	44.4	9,470				125.0	43.8	8,420				130.0	45.6	8,000				135.0	47.1	7,580	135.0	51.7	5,86
20.0 25.0	41.6 38.5	8,860 8,280				130.0 135.0	41.1 38.1	7,890 7,420				135.0 140.0	43.1 40.3	7,510 7,030				140.0 145.0	44.6 42.2	7,090 6,670			
30.0	35.2	7,690*				140.0	34.7	6,700*				145.0	37.4	6,540*				150.0	39.6	6,300			
35.0	31.6	6,830*										150.0	34.3	5,880*				155.0	36.8	5,730*			
																		160.0	33.6	5,090*			
Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1
Ree)' Boo	m	ves	1	Ree	ves			ves	1	Ree	ves			ves	1	Ree	ves			ves	1
Ree	130)' Boo 30 f	m t Jib		1	Ree		40 f	t Jib		1	Ree		501	t Jib		1	Ree		60 t	t Jib		1
Ree	130	30 f	m t Jib	eg.)	1	Ree	(t Jib	eg.)	1	Ree	(t Jib	eg.)	1	Ree	(t Jib	eg.)	1
	130)' Boo 30 f D∷set An	m t Jib		1 Rated	Ree		40 f D⊡set An	t Jib	eg.) 30	1 Rated	Ree		50 t D⊡set Ar	t Jib			Ree		60 t	t Jib	eg.) 30	
oad adius	130 10 Boom Angle	30 f	t Jib gle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius	10 Boom Angle	40 f	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius	10 Boom Angle	50 t Diset An Rated Load	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius	10 Boom Angle	60 f	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rate Load
oad adius (ft)	130 10 Boom Angle (deg.)	30 f Oset An	m ft Jib gle (d	eg.) 30 Boom	Rated	Load Radius (ft)	10 Boom Angle (deg.)	40 f D set An Rated Load (lbs)	t Jib gle (de	eg.) 30 Boom	Rated	Load Radius (ft)	10 Boom Angle (deg.)	50 t Diset Ari Rated Load (lbs)	it Jib gle (de	eg.) 30 Boom	Rated	Load Radius (ft)	10 Boom Angle (deg.)	60 f	ft Jib gle (de	eg.) 30 Boom	Pate
oad adius	130 10 Boom Angle	30 f	t Jib gle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius	10 Boom Angle	40 f	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius	10 Boom Angle	50 t Diset An Rated Load	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius	10 Boom Angle	60 f	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rate Load
oad adius (ft) 38.0 40.0 45.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1	30 f 30 f Deset An Rated Load (lbs) 24,000* 24,000*	m gle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft) 45.0 50.0 55.0	78.8 77.1 75.2	## A0 f Pated Load (lbs)	Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft) 45.0 50.0 55.0	10 Boom Angle (deg.) 80.0 78.4 76.7	50 to 20,000* Pated Load (lbs) 20,000* 20,000*	gle (du gle (du Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Pated Load (lbs)	Load Radius (ft) 50.0 55.0 60.0	79.5 77.9 76.3	60 f D set An Rated Load (lbs) 18,000* 18,000* 18,000*	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rate Load
oad ddius (ft) 38.0 40.0 45.0	130 10 Boom Angle (deg.) 79.7 79.0 77.1 75.3	30 f 30 f 30 set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000*	t Jib gle (d Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 45.0 50.0 55.0 60.0	78.8 77.1 75.2 73.5	## A0 f Conserved Anniel	Load Padius (ft)	eg.) 30 Boom Angle (deg.) 79.3 77.5	Rated Load (lbs) 15,100* 14,500*	Load Padius (ft) 45.0 50.0 55.0 60.0	80.0 78.4 76.7 75.1	50 th Disset Arr. Rated Load (lbs) 20,000* 20,000* 20,000* 20,000*	Et Jib gle (de Load Padius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 50.0 55.0 60.0 65.0	79.5 76.3 74.8	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100*	Et Jib ggle (de Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Pate Load (lbs)
oad adius (ft) 38.0 40.0 45.0 55.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 73.4	30 f 30 f D set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000*	Market Jib It	eg.) 30 Boom Angle (deg.) 78.5 76.5	Rated Load (lbs) 21,000* 20,980*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	78.8 77.1 75.2 71.7	### Add files ### Add files	Load Radius (ft) 55.0 60.0 65.0	eg.) 30 Boom Angle (deg.) 79.3 77.5 75.7	Rated Load (lbs) 15,100* 14,500* 13,930*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	80.0 78.4 76.7 73.4	### Solution	Load Radius (ft) 60.0 65.0	eg.) 30 Boom Angle (deg.) 79.9 78.2	Rated Load (lbs) 11,480* 11,020*	Load Padius (ft) 50.0 55.0 60.0 65.0 70.0	79.5 77.9 76.3 74.8 73.2	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000*	Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Rate Loa (Ibs
Dad ddius (ft) 38.0 40.0 45.0 55.0 60.0	130 10 Boom Angle (deg.) 79.7 79.0 77.1 75.3	30 f 30 f 30 set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000*	t Jib gle (d Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 45.0 50.0 55.0 60.0	78.8 77.1 75.2 73.5	## A0 f Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Padius (ft)	eg.) 30 Boom Angle (deg.) 79.3 77.5	Rated Load (lbs) 15,100* 14,500*	Load Padius (ft) 45.0 50.0 55.0 60.0	80.0 78.4 76.7 75.1	50 th Disset Arr. Rated Load (lbs) 20,000* 20,000* 20,000* 20,000*	Et Jib gle (de Load Padius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 50.0 55.0 60.0 65.0	79.5 76.3 74.8	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100*	Et Jib ggle (de Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Pate Loa (lbs
oad ddius (ft) 38.0 40.0 55.0 60.0 65.0 70.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620	## Total Part	eg.) 30 Boom Angle (deg.) 78.5 76.5 74.6 72.7 70.7	Pated Load (lbs) 21,000* 20,980* 20,120* 19,350* 18,650*	Load Radius (ft) 45.0 50.0 65.0 70.0 75.0 80.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2	### Action	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0	eg.) 30 Boom Angle (deg.) 79.3 77.5 75.7 73.8 71.8 69.9	Pated Load (lbs) 15,100* 14,500* 13,930* 13,420* 12,940* 12,520*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 17,570* 16,530	Et Jib gle (de Load Radius (ft) 60.0 65.0 70.0 75.0 80.0	79.9 78.2 76.5 74.6	Rated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330*	To Jib agle (de Radius (ft)) 70.0 75.0 80.0 85.0	78.7 76.9 73.6	Rate Load (lbs 8,84 8,48 8,17 7,89
oad adius (ft) 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7 65.6	7 Set And (bs) 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680	## Load Radius (ft) 50.0 55.0 60.0 65.0 75.0	eg.) 30 Boom Angle (deg.) 78.5 76.5 74.6 72.7 70.7 68.6	Pated Load (/bs) 21,000* 20,980* 20,120* 19,350* 18,650* 17,960*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3	## Ad f Set An Rated Load (lbs) 24,000* 24,000* 24,000* 22,000 19,860 17,920 16,350 14,990	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0	Rated Load (/bs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5	Fated (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0	79.9 78.2 76.5 71.0	Rated Load (/bs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540*	Load Padius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,100* 14,300* 12,630*	Load Radius (ft) 70.0 75.0 80.0 85.0 90.0	78.7 76.9 75.3 73.6 71.9	8,844 8,48 8,17 7,89
oad ddius (ft) 38.0 40.0 45.0 65.0 65.0 75.0 80.0	130 10 10 10 10 10 10 10 10 10 1	7 Set And (bs) 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130	## Jib gle (d Padius (ft) 50.0 55.0 60.0 75.0 75.0 80.0	78.5 76.5 74.6 70.7 68.6 66.6	Pated Load (lbs) 21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4	## Add for the control of the contro	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 90.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1	Rated Load (/bs) 15,100* 14,500* 13,420* 12,940* 12,520* 12,140* 11,770*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	70 80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160 13,950	Load Radius (ft) 60.0 65.0 70.0 85.0 90.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2	Rated Load (/bs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,100* 13,330* 12,630* 11,970*	To Jib gle (de Padius (ft)) 70.0 75.0 80.0 85.0 90.0 95.0	78.7 76.9 75.3 73.6 71.9	8,84 8,48 8,17 7,62 7,36
38.0 40.0 45.0 55.0 66.0 75.0 75.0 80.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7 65.6 63.7 61.6	7 Set And (bs) 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680	## Load Radius (ft) 50.0 55.0 60.0 65.0 75.0	eg.) 30 Boom Angle (deg.) 78.5 76.5 74.6 72.7 70.7 68.6	Pated Load (/bs) 21,000* 20,980* 20,120* 19,350* 18,650* 17,960*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3	## Ad f Set An Rated Load (lbs) 24,000* 24,000* 24,000* 22,000 19,860 17,920 16,350 14,990	Load Radius (ft) 55.0 60.0 65.0 70.0 80.0 85.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0	Rated Load (/bs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5	Fated (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0	79.9 78.2 76.5 71.0	Rated Load (/bs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540*	Load Padius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,100* 14,300* 12,630*	Load Radius (ft) 70.0 75.0 80.0 85.0 90.0	78.7 76.9 75.3 73.6 71.9	8,84 8,48 8,17 7,89 7,62 7,14
poad dius fft) 38.0 40.0 45.0 55.0 66.0 75.0 80.0 85.0 90.0	130 100 100 100 100 100 100 100	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 14,790 13,600 12,470	### Took	78.5 76.5 74.6 66.6 64.5 62.4 60.1	21,000* 20,980* 20,120* 19,350* 16,660* 15,180 13,950 12,780	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	78.8 77.1 75.2 73.5 69.9 66.2 64.3 62.4 60.3 58.3 56.3	## Ad f Set An	S5.0 60.0 80.0 95.0 100.0 105.0 105.0	79.3 77.5 73.8 69.9 68.0 66.1 63.9 59.8	Fated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 88.0 99.0 95.0 100.0	76.7 75.1 75.1 76.7 76.7 76.7 76.7 76.7 76.7 68.2 66.5 64.7 62.8 61.0 59.1	## So 1 Set Ar.	GO.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4	Rated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,550* 9,230* 8,950* 8,700* 8,480*	Load Padius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 105.0	79.5 77.9 76.3 74.8 73.2 71.5 66.6 64.8 63.1 61.4 59.6	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,100* 13,330* 12,630* 11,970* 11,410* 10,890* 10,310	70.0 75.0 80.0 99.0 90.0 100.0 110.0	78.7 76.9 70.0 68.3 66.5 64.6	8,844 8,48 8,17 7,62 7,14 6,94 6,74
oad addius (ft) 38.0 40.0 45.0 65.0 665.0 75.0 80.0 85.0 995.0 00.0	130 100 Boom 79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7 65.6 63.7 65.6 63.7 65.6 59.6 57.3 55.2	75 Page 14,700 Page 14,750 Pag	10.00 Ps.0.0 Ps.	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9	21,000* 20,980* 20,120* 19,350* 16,600 15,180 12,780 11,810	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 75.0 80.0 90.0 90.0 100.0 110.0	78.8 77.1 75.2 73.5 69.9 66.2 64.3 62.4 60.3 58.3 56.3 54.2	## A0 f Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 22,000 19,860 17,920 16,350 14,990 13,800 12,650 11,770 10,860 10,090	55.0 60.0 65.0 70.0 75.0 80.0 90.0 90.0 100.0	79.3 77.5 75.7 73.8 69.9 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,140* 11,170* 11,140* 11,130* 10,860* 10,420	Load Radius (ft) 45.0 50.0 65.0 60.0 65.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0	700 Boom Angle (deg.) 80.0 78.4 76.7 75.1 73.4 71.7 69.9 66.5 64.7 62.8 61.0 59.1 57.2	## So 1 Set Ar.	GO.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co	79.9 78.2 76.5 74.6 72.8 667.2 65.3 63.4 61.4	Rated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,240* 9,230* 8,950* 8,700* 8,480* 8,260*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 110.0 115.0	79.5 77.9 76.3 74.8 73.2 71.5 66.6 64.8 63.1 61.4 59.6 57.7	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,890* 10,310 9,560	70.0 75.0 80.0 99.0 90.0 105.0 115.0	78.7 76.9 75.3 66.5 64.6 62.6	8,848 8,48 8,17 7,89 7,62 7,14 6,94 6,74 6,56
pad ddius (ft) 388.0 40.0 45.0 655.0 665.0 775.0 80.0 95.0 90.0 905.0 005.0	130 100 100 100 100 100 100 100	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 14,790 13,600 12,470 11,530 10,690	50.0 65.0 65.0 75.0 88.0 99.0 100.0 105.0	78.5 76.5 74.6 72.7 70.7 68.6 66.6 62.4 60.1 57.9 55.6	21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 11,810 10,950	Load Radius (ft) 45.0 50.0 55.0 60.0 60.0 75.0 80.0 95.0 1100.0 115.0 115.0	77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 55.3 56.3 56.3	## A0 f Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 19,860 17,920 13,800 12,650 11,700 10,860 10,090 9,360	55.0 60.0 65.0 70.0 85.0 90.0 100.0 115.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 55.0 60.0 60.0 60.0 75.0 80.0 95.0 100.0 105.0 115.0 115.0	700 Boom Angle (deg.) 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	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 17,570* 16,530 13,950 12,800 11,860 11,000 10,220 9,470	60.0 65.0 70.0 80.0 85.0 90.0 95.0 110.0 115.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 65.3 63.4 61.4 59.2	### Rated Load (/bs) 11,480* 11,020* 10,620* 10,200* 9,540* 9,230* 8,950* 8,700* 8,480* 8,480* 8,040*	Load Radius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 105.0 115.0 115.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 61.4 59.6 57.7 55.9	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,890* 10,9560 8,920	70.0 75.0 80.0 95.0 100.0 115.0 120.0 120.0	78.7 76.9 75.3 76.6 66.5 64.6 62.6 60.7	8,84 8,48 8,17 7,62 7,14 6,94 6,74 6,56 6,39
poad ddius (ft) 388.0 40.0 45.0 55.0 60.0 65.0 70.0 95.0 90.0 95.0 10.0 10.0	130 10 10 10 10 10 10 10 10 10 1	7 Set And (bs) 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 12,470 11,530 10,690 9,940	10.00 Ps.0.0 Ps.	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9	21,000* 20,980* 20,120* 19,350* 16,600 15,180 12,780 11,810	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 75.0 80.0 90.0 90.0 100.0 110.0	78.8 77.1 75.2 73.5 69.9 66.2 64.3 62.4 60.3 58.3 56.3 54.2	## Ad f Set An Fated Load (lbs) 24,000* 24,000* 24,000* 24,000* 22,000 19,860 17,920 13,800 12,650 11,700 10,860 10,990 9,360 8,730	55.0 60.0 65.0 70.0 75.0 80.0 90.0 90.0 100.0	79.3 77.5 75.7 73.8 69.9 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,140* 11,170* 11,140* 11,130* 10,860* 10,420	Load Radius (ft) 45.0 50.0 65.0 60.0 65.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0	700 Boom Angle (deg.) 80.0 78.4 76.7 75.1 73.4 71.7 69.9 66.5 64.7 62.8 61.0 59.1 57.2	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 10,700* 11,570* 16,530 11,860 11,860 11,000 11,860 11,860 11,860 11,860 18,860 18,860 18,860 18,860 18,860	GO.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co.0 Co	79.9 78.2 76.5 74.6 72.8 667.2 65.3 63.4 61.4	Rated Load (lbs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,240* 9,230* 8,950* 8,700* 8,480* 8,260*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 110.0 115.0	79.5 77.9 76.3 74.8 73.2 71.5 66.6 64.8 63.1 61.4 59.6 57.7	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630* 11,970* 11,410* 10,890* 10,310 9,560 8,920 8,350	70.0 75.0 80.0 99.0 90.0 105.0 115.0	78.7 76.9 75.3 66.5 64.6 62.6	8,844 8,48 8,17 7,62 7,14 6,94 6,74
oad ddius (ft) 38.0 40.0 45.0 55.0 66.0 75.0 80.0 85.0 90.0	130 10 10 10 10 10 10 10 10 10 1	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 14,790 13,600 12,470 11,530 10,690	50.0 65.0 65.0 75.0 88.0 99.0 100.0 105.0	78.5 76.5 74.6 72.7 70.7 68.6 66.6 62.4 60.1 57.9 55.6	21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 11,810 10,950	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 100.0 115.0 115.0	77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 65.3 56.3 54.2 51.9 49.7	## A0 f Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 19,860 17,920 13,800 12,650 11,700 10,860 10,090 9,360	55.0 60.0 65.0 70.0 85.0 90.0 100.0 115.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 85.0 95.0 100.0 115.0 120.0 115.0 120.0	76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 62.8 61.0 57.2 55.1 53.1	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 17,570* 16,530 13,950 12,800 11,860 11,000 10,220 9,470	60.0 65.0 75.0 80.0 85.0 95.0 110.0 115.0 120.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 65.3 61.4 59.2 57.1	### Fated Load (/bs) 11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,700* 8,480* 8,260* 8,040* 7,870*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 105.0 115.0 120.0 125.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 61.4 55.9 55.9 55.9	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,890* 10,9560 8,920	70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 125.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 62.6 60.7 58.7	8,84 8,48 8,17 7,89 7,62 7,14 6,56 6,39 6,23
ood dius (ft) 388.0 40.0 45.0 555.0 660.0 755.0 860.0 955.0 900.0 15.0 20.0 225.0	130 100 Boom Angle (deg.) 79.7 79.0 79.0 65.6 67.7 65.6 67.7 65.6 57.3 55.2 52.9 648.1 45.6 43.0	24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 14,790 13,600 12,470 11,530 10,690 9,940 9,210 8,570 8,020	50.0 65.0 65.0 75.0 88.0 99.0 100.0 105.0	78.5 76.5 74.6 72.7 70.7 68.6 66.6 62.4 60.1 57.9 55.6	21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 11,810 10,950	Acad Radius (ft) 45.0 50.0 55.0 66.0 70.0 75.0 80.0 85.0 100.0 110.0 115.0 120.0 135.0 135.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 56.3 56.3 55.3 54.2 49.7 47.4 45.0 42.5	## Ad f	55.0 60.0 65.0 70.0 85.0 90.0 100.0 115.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 65.0 65.0 77.0 80.0 85.0 100.0 110.0 115.0 120.0 133.0	76.7 75.1 73.4 71.7 69.9 68.2 66.5 61.0 59.1 57.2 55.1 53.1 51.0 48.8 46.6	## So 10 Seet Ar.	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 59.2 57.1 54.9	### Rated Load (fbs) 11,480* 11,020* 10,620* 10,200* 9,850* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (ft) 50.0 55.0 60.0 75.0 80.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 125.0 1330.0 135.0 140.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 63.1 61.4 59.6 57.7 55.9 54.0 52.0 50.0	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,100* 13,330* 12,630* 11,410* 10,890* 10,310 9,560 8,920 7,310 6,830	70.0 75.0 80.0 85.0 95.0 100.0 115.0 120.0 125.0	78.7 76.9 75.3 66.5 64.6 62.6 60.7 58.7 56.6	8,84 8,48 8,17 7,36 7,36 6,74 6,56 6,39 6,23 6,10 5,97
poad ddius (ff) 38.0 44.0 45.0 55.0 66.0 77.0 75.0 85.0 90.0 95.0 005.0 115.0 20.0 225.0	130 Boom Angle (deg.) 79.7 79.0 77.1 75.3 71.5 69.6 67.7 65.6 63.7 65.6 63.7 55.2 52.9 50.6 48.1 48.1 48.6 43.0 40.2	7.490 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 11,530 10,690 9,940 9,210 8,570 8,020 7,490	50.0 65.0 65.0 75.0 88.0 99.0 100.0 105.0	78.5 76.5 74.6 72.7 70.7 68.6 66.6 62.4 60.1 57.9 55.6	21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 11,810 10,950	Acad Radius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 80.0 100.0 110.0 110.0 120.0 130.0 135.0 140.0	7.1.7 69.9 68.0 66.2 64.3 56.3 56.3 54.2 51.9 49.7 42.5 39.6	## Ad f	55.0 60.0 65.0 70.0 85.0 90.0 100.0 115.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 55.0 66.0 77.0 80.0 85.0 90.0 110.0 110.0 120.0 130.0 135.0 140.0	76.7 75.1 75.1 75.1 75.1 75.2 66.5 64.7 62.8 61.0 59.1 57.2 55.1 48.8 46.6 44.1	## Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 10,000* 11,570* 16,530 11,600 11,860 11,000 10,220 9,470 8,840 8,260 7,730 7,250 6,760	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 59.2 57.1 54.9	### Rated Load (fbs) 11,480* 11,020* 10,620* 10,200* 9,850* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (ft) 50.0 55.0 60.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0	(10 Boom Angle (deg.) 79.5 77.9 74.8 74.8 66.6 64.8 66.1 61.4 59.6 57.7 55.9 54.0 50.0 47.8 45.6	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 14,960* 14,100* 12,630* 11,970* 10,310 9,560 8,920 8,350 7,820 7,310 6,830 6,410	70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 133.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 62.6 54.5	8,84 8,48 8,17 7,36 7,36 6,74 6,56 6,39 6,23 6,10 5,97
38.0 40.0 45.0 45.0 650.0 655.	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 71.5 69.6 67.7 65.6 63.7 65.6 63.7 55.2 52.9 50.6 48.1 45.6 40.2 37.3	7.4900 8,24000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 11,4790 11,530 10,690 9,940 9,210 8,570 8,020 7,490 6,940*	50.0 65.0 65.0 75.0 88.0 99.0 100.0 105.0	78.5 76.5 74.6 72.7 70.7 68.6 66.6 62.4 60.1 57.9 55.6	21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 11,810 10,950	## Acad Radius (ft) ## Acad Radius (ft) ## According (ft) ##	78.8 77.1 75.2 71.7 69.9 68.0 66.2 64.3 556.3 554.2 51.9 49.7 47.4 45.0 42.5 39.6 36.8	## Ad f	55.0 60.0 65.0 70.0 85.0 90.0 100.0 115.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	## Acadius (ft) ## Acadius (76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 59.1 57.2 55.1 51.0 48.8 46.6 44.1 41.7	## Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160 13,950 12,800 11,000 10,220 9,470 8,840 8,260 7,730 7,250 6,760 6,340	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 59.2 57.1 54.9	### Rated Load (fbs) 11,480* 11,020* 10,620* 10,200* 9,850* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 130.0 135.0 145.0 150.0	79.5 77.9 76.3 74.8 74.8 74.8 66.6 64.8 66.1 657.7 55.9 54.0 52.0 52.0 52.0 45.6 43.3	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,890* 10,310 9,560 8,920 8,350 7,820 7,310 6,410 6,040	70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 133.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 62.6 54.5	8,84 8,48 8,17 7,36 7,36 6,74 6,56 6,39 6,23 6,10 5,97
ood dius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 95.0 00.0 10.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 71.5 69.6 67.7 65.6 63.7 65.6 63.7 55.2 52.9 50.6 48.1 45.6 40.2 37.3	7.490 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 11,530 10,690 9,940 9,210 8,570 8,020 7,490	50.0 65.0 65.0 75.0 88.0 99.0 100.0 105.0	78.5 76.5 74.6 72.7 70.7 68.6 66.6 62.4 60.1 57.9 55.6	21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 11,810 10,950	Acad Radius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 80.0 100.0 110.0 110.0 120.0 130.0 135.0 140.0	7.1.7 69.9 68.0 66.2 64.3 56.3 56.3 54.2 51.9 49.7 42.5 39.6	## Ad f	55.0 60.0 65.0 70.0 85.0 90.0 100.0 115.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 120.0 140.0 145.0 150.0 145.0 150.0	76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 57.1 51.0 48.8 46.6 44.1 41.7 39.1	## Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 10,000* 11,570* 16,530 15,160 13,950 12,800 11,860 11,000 10,220 9,470 8,840 8,260 7,730 7,250 6,760 6,340 5,860*	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 59.2 57.1 54.9	### Rated Load (fbs) 11,480* 11,020* 10,620* 10,200* 9,850* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 115.0 125.0 130.0 145.0 150.0 155.0	79.5 77.9 76.3 74.8 77.5 69.9 68.3 66.6 64.8 63.1 65.7 55.9 54.0 52.0 50.0 60.0 60.0 60.0 60.0 60.0 60.0 60	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,310 9,560 8,920 8,350 7,820 7,310 6,830 6,410 6,040 5,620*	70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 133.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 62.6 54.5	8,844 8,48 8,17 7,32 7,32 6,74 6,56 6,39 6,23 6,10
38.0 40.0 45.0 45.0 650.0 655.	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 71.5 69.6 67.7 65.6 63.7 65.6 63.7 55.2 52.9 50.6 48.1 45.6 40.2 37.3	7.4900 8,24000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130 11,4790 11,530 10,690 9,940 9,210 8,570 8,020 7,490 6,940*	50.0 65.0 65.0 75.0 88.0 99.0 100.0 105.0	78.5 76.5 74.6 72.7 70.7 68.6 66.6 62.4 60.1 57.9 55.6	21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 11,810 10,950	## Acad Radius (ft) ## Acad Radius (ft) ## According (ft) ##	78.8 77.1 75.2 71.7 69.9 68.0 66.2 64.3 556.3 554.2 51.9 49.7 47.4 45.0 42.5 39.6 36.8	## Ad f	55.0 60.0 65.0 70.0 85.0 90.0 100.0 115.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1 66.1 61.9 59.8 57.6	Rated Load (lbs) 15,100* 14,500* 13,930* 12,940* 12,520* 12,140* 11,770* 11,440* 11,130* 10,860* 10,420 9,650	## Acadius (ft) ## Acadius (76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7 59.1 57.2 55.1 51.0 48.8 46.6 44.1 41.7	## Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 16,530 15,160 13,950 12,800 11,000 10,220 9,470 8,840 8,260 7,730 7,250 6,760 6,340	60.0 65.0 70.0 95.0 100.0 115.0 125.0 125.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 59.2 57.1 54.9	### Rated Load (fbs) 11,480* 11,020* 10,620* 10,200* 9,850* 8,700* 8,480* 8,260* 7,870* 7,710*	Load Radius (ft) 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 130.0 135.0 145.0 150.0	79.5 77.9 76.3 74.8 74.8 74.8 66.6 64.8 66.1 657.7 55.9 54.0 52.0 52.0 52.0 45.6 43.3	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 12,630* 11,970* 11,410* 10,890* 10,310 9,560 8,920 8,350 7,820 7,310 6,410 6,040	70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 133.0 135.0 135.0	78.7 76.9 75.3 73.6 66.5 64.6 62.6 62.6 54.5	8,84 8,48 8,17 7,36 7,36 6,74 6,56 6,39 6,23 6,10 5,97

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

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts. Refer to notes on page 20.



Fixed Jib Lift Capacity

Full Counterweight:	69.000 lbs	Carbody Weight:	31.800
i un countei weignt.	07,000 103	carboay weight.	31,000

	140)' Boo																					
			t Jib					40 f	t Jib						ft Jib					60 f	t Jib		
		O⊡ <i>set An</i>	gle (d					D⊡set An	gle (d					O⊡set An	igle (de	• /				D⊡set An	gle (d		
1	10		Local	30		l d	10	Detect	1 1	30		Lord	10		11	30	Detect	Local	10	Detect	l d	30	
ad lius t)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rat Lo (Ib
0.0 5.0	79.6 77.9	24,000* 24,000 *				45.0 50.0	79.4 77.8	24,000* 24,000 *				50.0 55.0	79.1 77.4	20,000* 20,000 *				55.0 60.0	78.5 77.0	18,000* 18,000 *			
0.0	76.2	24,000*	50.0	79.2	21,000*	55.0	76.1	24,000*	55.0	79.9	15,320*	60.0	75.9	20,000*	CE O	70.0	44 470*	65.0	75.6	17,700*	70.0	70.2	
5.0	74.4 72.6	24,000* 23,980	55.0 60.0	77.4 75.6	21,000* 20,540*	60.0 65.0	74.4 72.8	24,000* 21,730	60.0 65.0	78.2 76.5	14,720* 14,170*	65.0 70.0	74.3 72.8	20,000* 19,480*	65.0 70.0	78.8 77.2	11,170 * 10,780*	70.0 75.0	74.1 72.5	16,570 * 15,520*	70.0 75.0	79.3 77.7	8,9
5.0	70.9	21,450	65.0	73.8	19,770*	70.0	71.1	19,590	70.0	74.8	13,690*	75.0	71.1	17,850	75.0	75.5	10,780*	80.0	71.0	14,630*	80.0	76.1	8,3
0.0	69.1	19,330	70.0	72.0	19,060*	75.0	69.3	17,650	75.0	72.9	13,180*	80.0	69.4	16,260	80.0	73.8	10,030*	85.0	69.4	13,840*	85.0	74.5	8,0
5.0	67.2	17,390	75.0	70.0	17,940	80.0	67.6	16,090	80.0	71.2	12,760*	85.0	67.8	14,880	85.0	72.1	9,720*	90.0	67.9	13,130*	90.0	72.9	7,
0.0	65.3	15,850	80.0	68.1	16,330	85.0	65.9	14,720	85.0	69.4	12,380*	90.0	66.2	13,660	90.0	70.4	9,430*	95.0	66.2	12,450*	95.0	71.2	7,
5.0	63.5	14,480	85.0	66.2	14,940	90.0	64.1	13,510	90.0	67.6	12,030*	95.0	64.4	12,520	95.0	68.6	9,120*	100.0	64.6	11,680	100.0	69.5	7,
0.0 5.0	61.6 59.5	13,290 12,160	90.0 95.0	64.3 62.2	13,690 12,540	95.0 100.0	62.2 60.3	12,360 11,410	95.0 100.0	65.6 63.7	11,680* 11,370 *	100.0 105.0	62.7 60.9	11,570 10,710	100.0 105.0	66.8 65.0	8,880* 8,660 *	105.0 110.0	63.0 61.4	10,820 10,050	105.0 110.0	67.8 66.1	7,0 6,8
0.0	57.5	11,220	100.0	60.1	11,550	105.0	58.5	10,580	105.0	61.8	10,970	110.0	59.2	9,940	110.0	63.2	8,440*	115.0	59.6	9,300	115.0	64.3	6,
5.0	55.5	10,380	105.0	58.1	10,690	110.0	56.6	9,810	110.0	59.8	10,180	115.0	57.3	9,190	115.0	61.2	8,220*	120.0	57.9	8,660	120.0	62.5	6,
0.0	53.4	9,630	110.0	55.9	9,890	115.0	54.5	9,060	115.0	57.6	9,410	120.0	55.4	8,550	120.0	59.3	8,040*	125.0	56.1	8,060	125.0	60.7	6,
5.0	51.1	8,900	115.0	53.5	9,120	120.0	52.5	8,420	120.0	55.5	8,730	125.0	53.5	7,980	125.0	57.3	7,870*	130.0	54.3	7,530	130.0	58.8	6,
20.0 25.0	48.9 46.6	8,260 7,690	120.0	51.3	8,480	125.0 130.0	50.4 48.2	7,840 7,310	125.0	53.4	8,130	130.0 135.0	51.6 49.5	7,450 6,940	130.0 135.0	55.3 53.1	7,710* 7,250	135.0 140.0	52.5 50.5	7,030 6,540	135.0 140.0	56.9 54.7	6, 5 ,
30.0	44.2	7,180				135.0	46.0	6,830				140.0	47.3	6,450	155.0	33.1	1,200	145.0	48.5	6,120	145.0	52.7	5,
35.0	41.7	6,700				140.0	43.5	6,370				145.0	45.1	6,040				150.0	46.5	5,730			-,
10.0	38.8	6,060*				145.0	41.1	5,880*				150.0	42.9	5,640*				155.0	44.4	5,350*			
45.0	36.0	5,400*				150.0	38.5	5,290*				155.0	40.5	5,090*				160.0	42.0	4,820*			
0.0	32.9	4,760*				155.0	35.7	4,690*				160.0	37.8	4,540*				165.0	39.7	4,340*			
						160.0	32.5	4,070*				165.0 170.0	35.1 32.2	4,010* 3,500*				170.0 175.0	37.3 34.7	3,880* 3,410*			
Poo	ves	1	Poo	ves	1	Ree	VOS	1	Poo	ves	1		ves	1	Ree	VOS.	1	Ree		1	Poo	ves	
)' Boo				100	100		100	100	•	100	100		1.00	100		100	100		100	100	
		30 f	t Jib						t Jib						ft Jib						t Jib		
		O⊡ <i>set An</i>	gle (d					D⊡set An	gle (d	• /				O∷set An	igle (de	• /				D⊡set An	gle (d	• /	
200	10 Boom	Rated	Load	30		Load	10		Load	30	Dotod	Lood	10		Load	30	Rated	Load	10	Datad	Load	30 Boom	Re
oad dius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Radius (ft)	Boom Angle (deg.)	Load (lbs)	Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Radius (ft)	Angle (deg.)	Lo (I
15.0	78.6	24,000*				45.0	80.0	24,000*				50.0	79.6	20,000*				55.0	79.1	18,000*			
50.0	77.0	24,000*	50.0	79.9	21,000*	50.0	78.5	24,000*				55.0	78.1	20,000*				60.0	77.7	18,000*			
55.0	75.3	24,000*	55.0	78.1	21,000*	55.0	76.8 75.3	24,000*	60.0	70.0	44 020*	60.0	76.6 75.1	20,000*	CE O	70.4	44 220*	65.0	76.3	18,000*	70.0	70.0	9,0
60.0 65.0	73.6 72.0	23,800 21,270	60.0 65.0	76.4 74.8	20,890* 20,150*	60.0 65.0	73.7	24,000* 21,580	60.0 65.0	78.9 77.3	14,920* 14,390*	65.0 70.0	73.7	20,000* 19,640	65.0 70.0	79.4 77.9	11,330 * 10,930*	70.0 75.0	74.9 73.4	17,120* 16,040*	70.0 75.0	79.9 78.3	8,
70.0	70.3	19,150	70.0	73.1	19,440*	70.0	72.1	19,420	70.0	75.7	13,910*	75.0	72.1	17,680	75.0	76.3	10,530*	80.0	71.9	15,160*	80.0	76.8	8,4
75.0	68.5	17,210	75.0	71.2	17,810	75.0	70.5	17,480	75.0	73.9	13,420*	80.0	70.5	16,090	80.0	74.7	10,200*	85.0	70.5	14,350*	85.0	75.3	8,
30.0	66.8	15,670	80.0	69.5	16,200	80.0	68.8	15,890	80.0	72.3	13,000*	85.0	69.0	14,700	85.0	73.1	9,870*	90.0	69.0	13,620	90.0	73.8	7,8
35.0 90.0	65.1 63.3	14,300 13,110	85.0 90.0	67.7 65.9	14,790 13,530	85.0 90.0	67.2 65.6	14,520 13,310	85.0 90.0	70.6 68.9	12,630* 12,270 *	90.0 95.0	67.5 65.8	13,490 12,340	90.0 95.0	71.5 69.8	9,590* 9,300 *	95.0 100.0	67.4 65.9	12,450 11,500	95.0 100.0	72.2 70.6	7,6
95.0		11,990	95.0	63.9	12,360	95.0	63.8	12,190	95.0	67.1	11,920*	100.0	64.2	11,390	100.0	68.2	9,060*	105.0	64.4	10,640	105.0	69.1	7,
0.00		11,040	100.0	l	11,390	100.0	62.1	11,240	100.0	65.3	11,610*	105.0	62.6	10,530	105.0	66.5	8,810*	110.0	62.9	9,850	110.0		7,0
05.0		10,200	105.0		10,510	105.0	60.3	10,380	105.0	63.5	10,820	110.0	60.9	9,760	110.0	64.8	8,590*	115.0	61.2	9,100	115.0	65.7	6,8
10.0		9,430	110.0		9,720	110.0	58.6	9,610	110.0	61.7	10,030	115.0	59.1	9,010	115.0	62.9	8,390*	120.0	59.6	8,460 7,970	120.0	64.1	6,6
5.0 20.0		8,700 8,090	115.0 120.0		8,970 8,310	115.0 120.0	56.7 54.8	8,860 8,240	115.0 120.0	59.7 57.8	9,230 8,570	120.0 125.0	57.4 55.7	8,370 7,780	120.0 125.0	61.2 59.3	8,200* 8,020 *	125.0 130.0	58.0 56.3	7,870 7,340	125.0 130.0	62.4 60.7	6,5
	49.6	7,510	125.0	l	7,710	125.0	52.9	7,670	125.0	55.8	7,950	130.0	53.9	7,250	130.0	57.5	7,620	135.0	54.6	6,830	135.0	58.9	6,2
	47.5	6,980			'	130.0	51.0	7,140	130.0	53.8	7,400	135.0	52.0	6,740	135.0	55.6	7,090	140.0	52.8	6,340	140.0	57.0	6,0
- 0		6,500				135.0	49.0	6,630				140.0	50.0	6,260	140.0	53.4	6,590	145.0	51.0	5,930	145.0	55.1	5,9
		6,010*				140.0	46.7	6,170				145.0	48.1	5,840				150.0	49.2	5,530	150.0	53.1	5,
40.0		5,420* 4,820 *				145.0 150.0	44.6 42.3	5,750 5,220 *				150.0 155.0	46.0 43.9	5,460 4,980 *				155.0 160.0	47.3 45.2	5,150* 4,670 *			
35.0 40.0 45.0 50.0	37 2		1	1	1	1.00.0	74.0	J,220			I				1				70.∠	7,070	1		1
40.0 45.0 50.0						155.0	39.9	4.690*				160.0	41.6	4,450*				165.0	43.1	4.230*			
40.0 45.0 50.0 55.0	37.8 35.0 31.8	4,250* 3,650 *				155.0 160.0	39.9 37.3	4,690* 4,140 *				160.0 165.0	41.6 39.3	4,450* 3,990 *				165.0 170.0	43.1 41.0	4,230* 3,790 *			
40.0 45.0 50.0 55.0	35.0	4,250*										165.0 170.0	39.3 36.8	3,990* 3,520*									
0.0 5.0 0.0 5.0	35.0	4,250*			1	160.0	37.3	4,140*			1	165.0	39.3 36.8 34.2	3,990*		ves	1	170.0	41.0	3,790*			

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

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

Refer to notes on page 20.



Fixe

	160)' Boo	m																				
	160		t Jib					40 f	t Jib					50 f	t Jib					60 f	t Jib		
		D⊡set An		eg.)			(D□set An		eg.)			(oo, O∷set An		eg.)			(oo, O⊡set An		eg.)	
	10			30			10			30			10			30			10			30	
adius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rate Loa
(ft) 45.0	(deg.) 79.2	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 50.0	(deg.) 79.0	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 55.0	(deg.) 78.7	(lbs) 20,000*	(ft)	(deg.)	(lbs)	(ft) 55.0	(deg.) 79.6	(lbs) 18,000*	(ft)	(deg.)	(lbs
50.0	77.7	24,000*				55.0	77.5	24,000*				60.0	77.3	20,000*				60.0	78.3	18,000*			
55.0	76.1	24,000*	55.0	78.8	21,000*	60.0	76.0	24,000*	60.0	79.5	15,120*	65.0	75.9	20,000*	65.0	80.0	11,440*	65.0	76.9	18,000*	70.0	00.4	
60.0 65.0	74.5 73.0	23,720 21,180	60.0 65.0	77.2 75.6	21,000* 20,500*	65.0 70.0	74.6 73.1	21,470 19,310	65.0 70.0	78.0 76.4	14,590* 14,100*	70.0 75.0	74.5 72.9	19,530 17,570	70.0 75.0	78.5 77.0	11,060* 10,670*	70.0 75.0	75.6 74.1	17,650* 16,570*	70.0 75.0	80.4 78.9	9,1 4
70.0	71.4	19,040	70.0	74.0	19,730	75.0	71.5	17,370	75.0	74.8	13,640*	80.0	71.5	15,980	80.0	75.5	10,330*	80.0	72.8	15,670*	80.0	77.5	8,5
75.0	69.7	17,100	75.0	72.3	17,720	80.0	70.0	15,780	80.0	73.2	13,220*	85.0	70.1	14,590	85.0	74.0	10,030*	85.0	71.4	14,700	85.0	76.1	8,2
80.0 85.0	68.1 66.5	15,540 14,190	80.0 85.0	70.7 69.0	16,090 14,680	85.0 90.0	68.4 66.9	14,410 13,200	85.0 90.0	71.7 70.1	12,850* 12,500*	90.0 95.0	68.6 67.0	13,350 12,210	90.0 95.0	72.5 70.9	9,740* 9,450*	90.0 95.0	70.0 68.5	13,490 12,340	90.0 95.0	74.6 73.1	8,0 7,7
90.0	64.8	12,980	90.0	67.3	13,440	95.0	65.2	12,050	95.0	68.4	12,140*	100.0	65.5	11,260	100.0	69.3	9,210*	100.0	67.1	11,370	100.0	71.6	7,5
95.0	63.0	11,860	95.0	65.5	12,270	100.0	63.6	11,110	100.0	66.7	11,640	105.0	64.0	10,400	105.0	67.8	8,970*	105.0	65.7	10,490	105.0	70.2	7,3
00.0	61.3 59.6	10,910 10,070	100.0 105.0	63.8 62.0	11,280 10,400	105.0 110.0	62.0 60.4	10,250 9,470	105.0 110.0	65.1 63.4	10,730 9,920	110.0 115.0	62.5 60.8	9,610 8,860	110.0 115.0	66.2 64.5	8,770 * 8,550*	110.0 115.0	64.2 62.7	9,720 8,970	110.0 115.0	68.7 67.0	7,1 6,9
10.0	57.9	9,300	110.0	60.2	9,610	115.0	58.6	8,730	115.0	61.5	9,120	120.0	59.2	8,220	120.0	62.8	8,350*	120.0	61.2	8,310	120.0	65.5	6,7
15.0	55.9	8,550	115.0	58.2	8,840	120.0	56.9	8,090	120.0	59.8	8,460	125.0	57.6	7,620	125.0	61.1	8,090	125.0	59.7	7,730	125.0	63.9	6,6
20.0 25.0	54.1 52.2	7,930 7,360	120.0 125.0	56.3 54.4	8,200 7,580	125.0 130.0	55.1 53.3	7,510 6,960	125.0 130.0	58.0 56.1	7,840 7,270	130.0 135.0	55.9 54.2	7,090 6,590	130.0 135.0	59.4 57.6	7,510 6,980	130.0 135.0	58.1 56.5	7,180 6,670	130.0 135.0	62.3 60.7	6,4 6,3
30.0	50.2	6,830	130.0	52.4	7,030	135.0	51.5	6,480	135.0	54.2	6,760	140.0	52.4	6,100	140.0	55.7	6,450	140.0	54.8	6,190	140.0	58.9	6,2
35.0	48.2	6,320				140.0	49.5	5,990	140.0	52.1	6,260	145.0	50.6	5,680	145.0	53.8	5,990	145.0	53.2	5,770	145.0	57.1	6,0
40.0 45.0	46.0 43.9	5,860 5,310*				145.0 150.0	47.5 45.5	5,570 5,090*				150.0 155.0	48.7 46.8	5,290 4,800*	150.0	51.9	5,570	150.0 155.0	51.5 49.7	5,370 4,960*	150.0 155.0	55.4 53.5	5,7 5,3
50.0	41.6	4,760*				155.0	43.4	4,580*				160.0	44.7	4,320*				160.0	47.8	4,490*	160.0	51.5	4,9
55.0	39.2	4,230*				160.0	41.1	4,050*				165.0	42.7	3,880*				165.0	46.0	4,050*			
60.0 65.0	36.6 33.9	3,680* 3,170*				165.0 170.0	38.7 36.3	3,590* 3,100*				170.0 175.0	40.6 38.3	3,430 * 3,020*				170.0 175.0	44.1 42.1	3,650 * 3,240*			
Reev		1	Ree	ves	1	Ree		1	Rec	eves	1		ves	1	Ree	ves	1		ves	1	Ree	ves	1
	170)' Boo	m																				
		30 f	t J ib					40 f	t Jib					50 t	t Jib					60 f	t Jib		
		D⊡set An	gle (d	-				O∷set An	gle (d					O⊡set An	gle (de					O⊡set An	gle (d	-	
oad	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rat
	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Loa (lb
15.0	79.8	24,000*		, ,		50.0	79.6	24,000*			, ,	55.0	79.2	20,000*			, ,	55.0	80.0	18,000*			
50.0	78.3	24,000*		70.4	21 000*	55.0	78.1	24,000*	600	00.0	15 200*	60.0	77.9	20,000*				60.0	78.8	18,000*			
55.0	76.8 75.3	24,000* 23,500	55.0 60.0	79.4 77.9	21,000* 21,000 *	60.0 65.0	76.7 75.3	23,800 21,250	60.0 65.0	80.0 78.6	15,290* 14,770 *	65.0 70.0	76.5 75.2	20,000* 19,310	70.0	79.1	11,170*	65.0 70.0	77.5 76.2	18,000* 18,000 *			
U.Uc				76.4	20,830*	70.0	73.9	19,090	70.0	77.1	14,300*	75.0	73.8	17,350	75.0	77.6	10,800*	75.0	74.9	17,080*	75.0	79.4	8,9
	73.8	20,940	65.0	70.4														00.0	70.0	15,890	80.0	78.1	8,6
55.0 70.0	72.4	18,820	70.0	74.9	19,530	75.0	72.4	17,150	75.0	75.6	13,840*	80.0	72.4	15,760	80.0	76.2	10,490*	80.0	73.6				
65.0 70.0 75.0	72.4 70.8	18,820 16,880	70.0 75.0	74.9 73.2	17,520	75.0 80.0	72.4 71.0	15,560	75.0 80.0	74.1	13,420*	85.0	71.0	14,370	85.0	74.8	10,180*	85.0	72.3	14,500	85.0	76.7 75.4	
60.0 65.0 70.0 75.0 80.0 85.0	72.4	18,820	70.0	74.9		75.0	72.4		75.0													76.7 75.4 73.9	8,1
65.0 70.0 75.0 80.0 85.0 90.0	72.4 70.8 69.3 67.7 66.2	18,820 16,880 15,320 13,950 12,740	70.0 75.0 80.0 85.0 90.0	74.9 73.2 71.7 70.1 68.6	17,520 15,890 14,480 13,240	75.0 80.0 85.0 90.0 95.0	72.4 71.0 69.5 68.1 66.5	15,560 14,170 12,960 11,810	75.0 80.0 85.0 90.0 95.0	74.1 72.6 71.1 69.5	13,420* 13,050* 12,690* 12,360*	95.0 95.0 100.0	71.0 69.6 68.2 66.7	14,370 13,130 11,990 11,020	95.0 95.0 100.0	74.8 73.4 71.9 70.4	10,180* 9,890* 9,610* 9,360*	95.0 95.0 100.0	72.3 71.0 69.5 68.2	14,500 13,270 12,100 11,150	95.0 95.0 100.0	75.4 73.9 72.5	8,1 7,8 7,6
75.0 75.0 80.0 85.0 95.0	72.4 70.8 69.3 67.7 66.2 64.5	18,820 16,880 15,320 13,950 12,740 11,610	70.0 75.0 80.0 85.0 90.0 95.0	74.9 73.2 71.7 70.1 68.6 66.9	17,520 15,890 14,480 13,240 12,050	75.0 80.0 85.0 90.0 95.0 100.0	72.4 71.0 69.5 68.1 66.5 65.0	15,560 14,170 12,960 11,810 10,860	75.0 80.0 85.0 90.0 95.0 100.0	74.1 72.6 71.1 69.5 68.0	13,420* 13,050* 12,690* 12,360* 11,440	85.0 90.0 95.0 100.0 105.0	71.0 69.6 68.2 66.7 65.3	14,370 13,130 11,990 11,020 10,160	95.0 95.0 100.0 105.0	74.8 73.4 71.9 70.4 68.9	10,180* 9,890* 9,610* 9,360* 9,120*	85.0 90.0 95.0 100.0 105.0	72.3 71.0 69.5 68.2 66.8	14,500 13,270 12,100 11,150 10,270	95.0 95.0 100.0 105.0	75.4 73.9 72.5 71.1	8,1 7,8 7,6 7,4
75.0 75.0 85.0 95.0 95.0 95.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6	17,520 15,890 14,480 13,240 12,050 11,080 10,200	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9	15,560 14,170 12,960 11,810 10,860 10,000 9,230	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720	85.0 90.0 95.0 100.0 105.0 110.0 115.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3	14,370 13,130 11,990 11,020 10,160 9,390 8,610	85.0 90.0 95.0 100.0 105.0 110.0 115.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680*	85.0 90.0 95.0 100.0 105.0 110.0 115.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0	14,500 13,270 12,100 11,150 10,270 9,470 8,730	85.0 90.0 95.0 100.0 105.0 110.0 115.0	75.4 73.9 72.5 71.1 69.7 68.2	8,3 8,1 7,8 7,6 7,4 7,2 7,0
55.0 70.0 75.0 30.0 35.0 95.0 95.0 95.0 10.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7	8,1 7,8 7,6 7,4 7,2 7,0 6,9
75.0 75.0 35.0 35.0 95.0 95.0 10.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060 8,310	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 115.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 115.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,840	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 120.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240	85.0 90.0 95.0 100.0 105.0 110.0 120.0 125.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 7,400	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890	85.0 90.0 95.0 100.0 105.0 110.0 120.0 125.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2	8,1 7,8 7,6 7,4 7,2 7,0 6,9
70.0 75.0 80.0 85.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060	70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7	8,1 7,8 7,6 7,4 7,2 7,0 6,9
75.0 77.0 75.0 80.0 85.0 90.0 95.0 10.0 15.0 20.0 25.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 52.6	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560	70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 120.0 130.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 125.0 130.0 135.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7 57.0 55.4 53.7	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,840 7,270 6,720 6,230	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 120.0 125.0 130.0 135.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.3	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540	85.0 90.0 95.0 100.0 105.0 115.0 120.0 125.0 135.0 140.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,400 6,850 6,340 5,860	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5 57.7	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760 6,260	85.0 90.0 95.0 100.0 105.0 115.0 120.0 125.0 135.0 140.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2 60.5	8,1 7,8 7,6 7,4 7,2 7,0 6,9 6,5 6,4 6,3
77.0 77.0 77.0 80.0 85.0 90.0 95.0 95.0 10.0 15.0 20.0 25.0 83.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 52.6 50.8	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080	70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0 125.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 125.0 130.0 135.0 140.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7 57.0 55.4 53.7 51.8	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,840 7,270 6,720 6,230 5,750	75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0 125.0 130.0 140.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.3 54.4	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	85.0 90.0 95.0 100.0 105.0 115.0 125.0 130.0 135.0 140.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4 52.8	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,400 6,850 6,340 5,860 5,440	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0 145.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5 57.7 56.0	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760 6,260 5,790	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0 145.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6 55.1	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950 5,530	85.0 90.0 95.0 100.0 105.0 115.0 125.0 130.0 135.0 140.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2 60.5 58.9	8,1 7,8 7,6 7,4 7,2 7,0 6,9 6,7 6,4 6,3 5,9
75.0 75.0 80.0 85.0 95.0 95.0 10.0 15.0 20.0 25.0 85.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 52.6	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560	70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 120.0 130.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 125.0 130.0 135.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7 57.0 55.4 53.7	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,840 7,270 6,720 6,230	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 120.0 125.0 130.0 135.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.3	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,400 6,850 6,340 5,860	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5 57.7	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760 6,260	85.0 90.0 95.0 100.0 105.0 115.0 120.0 125.0 135.0 140.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2 60.5	8,1 7,8 7,6 7,4 7,2 7,0 6,9 6,7 6,5 6,4 6,3 5,9 5,5
70.0 70.0 75.0 80.0 85.0 95.0 95.0 95.0 10.0 15.0 85.0 85.0 85.0 85.0 85.0 85.0 85.0 8	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 52.6 50.8 48.8 46.8 44.8	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080 5,590 5,040* 4,540*	70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 120.0 130.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0 125.0 130.0 140.0 145.0 150.0 155.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7 57.0 55.4 53.7 51.8 50.1 48.2 46.3	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750 5,290* 4,780* 4,320*	75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0 125.0 130.0 140.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.3 54.4	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	85.0 90.0 95.0 100.0 115.0 120.0 125.0 135.0 145.0 145.0 155.0 160.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4 52.8 51.1 49.3 47.4	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 6,850 6,340 5,860 5,440 4,960* 4,490* 4,030*	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0 145.0 150.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5 57.7 56.0 54.2	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760 6,260 5,790 5,370	85.0 90.0 95.0 100.0 115.0 120.0 125.0 135.0 145.0 145.0 155.0 160.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6 55.1 53.5 51.9	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,440 6,450 5,950 5,530 5,070* 4,620* 4,160*	85.0 90.0 95.0 100.0 115.0 120.0 125.0 135.0 145.0 145.0 155.0 160.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2 60.5 58.9 57.3 55.6 53.8	8,11 7,8 7,6 7,4 7,2 7,0 6,9 6,7 6,5 6,4 6,3 5,9 5,5,1 4,6
70.0 70.0 75.0 80.0 85.0 95.0 95.0 10.0 15.0 20.0 85.0 85.0 10.0 15.0 85.0 10.0 15.0 15.0 15.0 15.0 15.0	72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 52.6 50.8 48.8 46.8	18,820 16,880 15,320 13,950 12,740 11,610 10,670 9,810 7,670 7,090 6,560 6,080 5,590 5,040*	70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 120.0 130.0	74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0 130.0 140.0 145.0 150.0	72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7 57.0 55.4 53.7 51.8 50.1 48.2	15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750 5,290* 4,780*	75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 125.0 130.0 140.0	74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.3 54.4	13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 145.0 145.0 155.0	71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4 52.8 51.1 49.3	14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 6,850 6,340 5,860 5,440 4,960* 4,490*	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0 145.0 150.0	74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5 57.7 56.0 54.2	10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760 6,260 5,790 5,370	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 140.0 145.0 155.0	72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6 55.1 53.5 51.9	14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,450 5,950 5,530 5,070* 4,620*	85.0 90.0 95.0 100.0 105.0 115.0 120.0 135.0 145.0 145.0 155.0	75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2 60.5 58.9 57.3 55.6	8,11 7,8 7,6 7,4 7,2 7,0 6,9 6,7 6,5 6,4 6,3 5,9 5,5 5,1

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

Reeves

Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts. Refer to notes on page 20.

Reeves

Reeves

Reeves

Reeves

Reeves

Reeves

Reeves



Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

Fixed Jib Lift Capacity

150.0 47.6

Reeves

155.0 45.7

160.0 43.6

4,160*

3,680*

3,210*

1

Reeves

155.0 48.8

160.0 46.9

165.0 45.1

Reeves

3.920*

3,460*

3,040*

1

Reeves

	180)' Boo	m																				
		30 f	t Jib					40 f	t J ib					50 f	t Jib					60 f	t Jib		
	(o⊓set An	gle (d	eg.)			(D⊐set An	gle (d	eg.)			(D□set An	gle (de	eg.)		O∷set Angle (deg.)					
	10			30			10			30			10			30			10			30	
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Pated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)									
50.0	78.9	22,200*				55.0	78.7	21,670*				55.0	79.7	20,000*				60.0	79.3	18,000*			
55.0	77.4	21,750*	55.0	79.9	21,000*	60.0	77.3	21,270*				60.0	78.4	20,000*				65.0	78.0	18,000*			
60.0	76.0	21,360*	60.0	78.5	20,870*	65.0	76.0	20,870*	65.0	79.1	14,940*	65.0	77.1	20,000*				70.0	76.8	18,000*			
65.0	74.6	20,700	65.0	77.1	20,500*	70.0	74.7	18,840	70.0	77.7	14,480*	70.0	75.9	19,060	70.0	79.6	11,300*	75.0	75.5	17,230	75.0	79.9	8,990*
70.0	73.2	18,560	70.0	75.6	19,310	75.0	73.2	16,880	75.0	76.3	14,020*	75.0	74.5	17,100	75.0	78.2	10,930*	80.0	74.3	15,650	80.0	78.6	8,700*
75.0	71.7	16,600	75.0	74.1	17,300	80.0	71.9	15,290	80.0	74.9	13,620*	80.0	73.2	15,490	80.0	76.9	10,600*	85.0	73.0	14,240	85.0	77.3	8,460*
80.0	70.3	15,030	80.0	72.6	15,670	85.0	70.5	13,910	85.0	73.5	13,240*	85.0	71.9	14,100	85.0	75.5	10,310*	90.0	71.8	13,020	90.0	76.0	8,200*
85.0	68.8	13,660	85.0	71.2	14,240	90.0	69.1	12,690	90.0	72.1	12,890*	90.0	70.6	12,890	90.0	74.2	10,030*	95.0	70.4	11,860	95.0	74.6	7,950*
90.0	67.4	12,470	90.0	69.7	13,000	95.0	67.6	11,550	95.0	70.5	12,210	95.0	69.2	11,720	95.0	72.7	9,740*	100.0	69.2	10,890	100.0	73.3	7,760*
95.0	65.8	11,330	95.0	68.1	11,810	100.0	66.2	10,600	100.0	69.1	11,190	100.0	67.8	10,750	100.0	71.4	9,500*	105.0	67.9	10,000	105.0	72.0	7,530*
100.0 105. 0	64.3 62.8	10,380 9.540	100.0	66.5	10,820	105.0 110.0	64.8 63.3	9,740 8,970	105.0	67.6	10,290 9.470	105.0 110.0	66.5 65.1	9,890 9.100	105.0 110.0	70.0 68.5	9,280* 9,060 *	110.0 115.0	66.6	9,230	110.0	70.7 69.2	7,360* 7,160 *
110.0	61.3	8,770	105.0 110.0	65.0 63.4	9,940 9.140	115.0	61.8	8,200	110.0 115.0	66.1 64.5	9,470 8.680	115.0	63.6	8,350	115.0	67.0	8,840*	120.0	65.2 63.8	8,460 7,820	115.0 120.0	67.8	7,010*
115.0	59.6	8.020	115.0	61.7	8.370	120.0	60.3	7.560	120.0	63.0	8.000	120.0	62.2	7,710	120.0	65.6	8,280	125.0	62.5	7,820	125.0	66.4	6,850*
120.0	58.0	7.380	120.0	60.1	7.710	125.0	58.8	6,980	125.0	61.4	7,380	125.0	60.8	7,110	125.0	64.1	7,640	130.0	61.1	6.670	130.0	65.0	6,700*
125.0	56.4	6.810	125.0	58.4	7,090	130.0	57.2	6,430	130.0	59.8	6.830	130.0	59.3	6.560	130.0	62.6	7,070	135.0	59.7	6.150*	135.0	63.6	6,540*
130.0	54.7	6,280	130.0	56.8	6,540	135.0	55.6	5,950	135.0	58.2	6,300	135.0	57.8	6.080	135.0	61.1	6,540	140.0	58.2	5,590*	140.0	62.0	6.210
135.0	53.0	5.770*	135.0	55.0	6.040	140.0	53.9	5,370*	140.0	56.4	5.770	140.0	56.2	5.510*	140.0	59.4	6.010	145.0	56.8	5,110*	145.0	60.5	5,700*
140.0	51.2	5,180*	140.0	53.1	5,480*	145.0	52.3	4,870*	145.0	54.7	5,260*	145.0	54.7	5,020*	145.0	57.8	5,510*	150.0	55.3	4,620*	150.0	59.0	5,220*
145.0	49.4	4,650*	145.0	51.3	4,960*	150.0	50.6	4,380*	150.0	53.0	4,760*	150.0	53.1	4,540*	150.0	56.2	5,020*	155.0	53.8	4,210*	155.0	57.5	4,760*

155.0 51.5

Reeves

160.0 49.8

165.0 48.1

4,100*

3,630*

3,240*

155.0 54.5

160.0 52.7

Reeves

4,560*

4,070*

1

160.0 52.2

Reeves

165.0 50.6

3,760*

3,370*

1

160.0 55.8

165.0 54.1

170.0 52.4

Reeves

4,290*

3,880*

3,480*

1

)' Boo	t Jib					40 f	t Jib					50 f	ft Jib					60 f	t Jib		
		o set An	gle (d	eg.)			(o set An	gle (d	eg.)			(oset An	igle (de	eg.)			(o set An	gle (d	eg.)	
	10			30			10			30			10			30		10			30		
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
50.0 55.0 60.0 65.0	79.4 78.0 76.7 75.4	19,440* 19,020* 18,620* 18,250*	60.0 65.0	79.0 77.7	18,250* 17,870 *	55.0 60.0 65.0 70.0	79.2 77.9 76.6 75.4	18,950* 18,560* 18,160* 17,810*	65.0 70.0	79.6 78.3	15,100* 14,660 *	60.0 65.0 70.0 75.0	78.9 77.7 76.5 75.2	18,470* 18,070 * 17,700* 16,930	75.0	78.7	11,040*	60.0 65.0 70.0 75.0	79.7 78.5 77.4 76.1	18,000* 17,960* 17,590* 17,080			
70.0 75.0 80.0 85.0	74.0 72.6 71.2 69.9	17,870* 16,420 14,850 13,490	70.0 75.0 80.0 85.0	76.3 74.9 73.5 72.1	17,520* 17,150 15,520 14,080	75.0 80.0 85.0 90.0	74.0 72.7 71.4 70.1	16,710 15,120 13,730 12,520	75.0 80.0 85.0 90.0	76.9 75.6 74.3 72.9	14,190* 13,800* 13,420* 13.090*	80.0 85.0 90.0 95.0	73.9 72.7 71.4 70.1	15,320 13,930 12,690 11,550	80.0 85.0 90.0 95.0	77.5 76.2 74.9 73.5	10,730* 10,420* 10,160* 9,870*	80.0 85.0 90.0 95.0	74.9 73.8 72.6 71.3	15,470 14,060 12,830 11,680	80.0 85.0 90.0 95.0	79.1 77.9 76.6 75.3	8,790* 8,550 * 8,310* 8.060 *
90.0 95.0 100.0	68.5 67.0 65.6	12,270 11,150 10,200	90.0 95.0 100.0	70.7 69.2 67.7	12,850 11,660 10,670	95.0 100.0 105.0	68.7 67.3 66.0	11,370 10,420 9,540	95.0 100.0 105.0	71.5 70.1 68.7	12,050 11,040 10,140	100.0 105.0 110.0	68.8 67.5 66.2	10,580 9,720 8,920	100.0 105.0 110.0	72.2 70.9 69.6	9,630* 9,410 * 9,190*	100.0 105.0 110.0	70.1 68.8 67.6	10,710 9,830 9,030	100.0 105.0 110.0	74.1 72.8 71.5	7,840* 7,640 * 7,450*
105.0 110.0 115.0	64.1 62.7 61.1	9,340 8,570 7,840	105.0 110.0 115.0	66.3 64.8 63.2	9,780 8,970 8,200	110.0 115.0 120.0	64.6 63.1 61.7	8,770 8,020 7,380	110.0 115.0 120.0	67.3 65.8 64.3	9,320 8,530 7,840	115.0 120.0 125.0	64.8 63.5 62.1	8,170 7,510 6,900 *	115.0 120.0 125.0	68.1 66.7 65.3	8,810 8,130 7,490	115.0 120.0 125.0	66.3 65.0 63.7	8,260* 7,580* 6,940*	115.0 120.0 125.0	70.2 68.9 67.5	7,270 * 7,090* 6,940 *
120.0 125.0 130.0 135.0	59.6 58.1 56.6 55.0	7,200 6,630 6,040* 5,460 *	120.0 125.0 130.0 135.0	61.7 60.1 58.5 56.9	7,530 6,940 6,370 5,790 *	125.0 130.0 135.0 140.0	58.8 57.4 55.8	6,790 6,190* 5,640* 5,070*	125.0 130.0 135.0 140.0	62.9 61.4 59.9 58.2	7,230 6,650 6,080* 5,510 *	130.0 135.0 140.0 145.0	59.4 57.9 56.4	6,300* 5,750 * 5,200* 4,710 *	130.0 135.0 140.0 145.0	63.9 62.5 60.9 59.5	6,870* 6,300 * 5,730* 5,220 *	130.0 135.0 140.0 145.0	62.4 61.1 59.7 58.3	6,370* 5,820 * 5,260* 4,780 *	130.0 135.0 140.0 145.0	66.2 64.8 63.4 62.0	6,790* 6,480* 5,900* 5,400 *
140.0 145.0 150.0	53.3 51.6 50.0	4,890* 4,380 * 3,920*	140.0 145.0 150.0	55.2 53.5 51.8	5,220* 4,690 * 4,210*	145.0 150.0 155.0	54.2 52.7 51.0	4,580* 4,120 * 3,680*	145.0 150.0 155.0	56.6 55.0 53.4	4,980* 4,490 * 4,030*	150.0 155.0 160.0	55.0 53.5 51.8	4,250* 3,810 * 3,370*	150.0 155.0 160.0	57.9 56.4 54.7	4,730* 4,290 * 3,830*	150.0 155.0 160.0	56.9 55.5 54.0	4,340* 3,900 * 3,480*	150.0 155.0 160.0	60.5 59.1 57.5	4,930* 4,470 * 4,030*
155.0	48.2	3,460*				160.0	49.3	3,210*							165.0	53.1	3,410*	165.0	52.6	3,080*	165.0 170.0	56.0 54.4	3,610* 3,240*
Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1

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

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

Refer to notes on page 20.



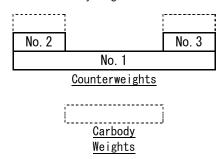
Supplemental Data - Clamshell

- 1. Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 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.
- The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - Machine shall be positively secured to prevent shifting.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - Must have 43,600 lbs (2) Counterweights installed, and without carbody weights.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 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.
- The boom should be erected over the front of the crawlers, not laterally.
- 8. 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
Maximum Loads (lbs)	22,000

- 10. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO., LTD. Modifications to this machine or use of equipment oth than that specified can reduce operating capacity.
- 11. Assembling the Counterweight 43,600 lbs counterweight (No. 1 ~ No. 3) Without Carbody weights



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



Clamshell

Boom:

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

Basic boom length: 40 ft (12.2 m) Max. boom length: 120 ft (36.6 m)

Limit on clamshell bucket weight: 4,600 lbs (2,100 kg)
Optional tagline: Hydraulic operated type and spring type.

Boom Component Chart:

Boom length ft (m)	Boom arrangement
40 (12.2)	Base-Tip
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip
80 (24.4)	Base-A-A-B-Tip, Base-B-B-Tip
90 (27.4)	Base-A-C-Tip
100 (30.5)	Base-A-A-B-B-Tip, Base-A-A-C-Tip
110 (33.5)	Base-A-B-C-Tip
120 (36.6)	Base-A-A-B-C-Tip, Base-B-B-C-Tip

Base = Boom Base

Insert: A = 10 ft (3.05 m)

B = 20 ft (6.10 m)

C = 40 ft (12.2 m)

Tip = Boom Tip

- 1. Figures represent maximum allowable capacity, and assume level, ground and ideal working conditions.
- 2. Capacities are calculated at 66% of the minimum tipping loads.
- 3. Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a sort of uneven supporting surface, rapid cycle operations, or bucket.
- 4. The combined weight of the bucket and load must not exceed these capacities.

3 Counterweights (43,600 lbs) - Without Carbody weights - Crawlers in extended position.

40)' Boo	m	50)' Boo	m		60)' Boo	m
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)		Load	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	63.7 60.5 57.1 53.5 49.8 45.9 41.7 37.0 31.8 25.7	22,000 * 22,000 * 22,000 * 22,000 * 22,000 * 21,400 * 20,200 * 19,200 * 18,200 *	26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 48.0	64.3 61.7 59.0 56.3 53.5 50.5 47.4 44.2 40.7 37.0 32.9 28.3	22,00 22,00 22,00 21,40 20,20 19,22 17,33 16,5 15,80	00 * 00 * 00 * 00 * 00 * 00 * 00 * 00	30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 54.0 56.0 58.0	64.6 62.5 60.3 58.1 55.8 53.4 51.0 48.4 45.8 43.0 40.1 37.0 33.6 29.9 25.7	22,000 * 22,000 * 21,400 * 20,200 * 19,200 * 18,200 * 17,300 * 16,500 * 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,500 * 12,500 *

Refer to notes on page 29.



Clamshell

3 Counterweights (43,600 lbs) - Without Carbody weights - Crawlers in extended position.

	0' Boo	m	80)' Boo		90' Boom			
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	
Radius		Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	
34.0	64.9	21,400 *	38.0	65.1	19,200 *	42.0	65.2	17,300 *	
36.0	63.1	20,200 *	40.0	63.5	18,200 *	44.0	63.8	16,500 *	
38.0	61.2	19,200 *	42.0	61.9	17,300 *	46.0	62.4	15,800 *	
40.0 42.0	59.3 57.4	18,200 * 17,300 *	44.0 46.0	60.2 58.6	16,500 * 15,800 *	48.0 50.0	60.9 59.5	15,200 * 14,600 *	
44.0	55.4	16,500 *	48.0	56.9	15,200 *	52.0	58.0	14,000 *	
46.0	53.4	15,800 *	50.0	55.1	14,600 *	54.0	56.4	13,500 *	
48.0	51.3	15,200 *	52.0	53.3	14,000 *	56.0	54.9	13,000 *	
50.0 52.0	49.1 46.9	14,600 * 14,000 *	54.0 56.0	51.5 49.6	13,500 *	58.0 60.0	53.3 51.7	12,500 * 12,100 *	
54.0	44.6	13,500 *	58.0	47.7	13,000 * 12,500 *	62.0	50.0	11,700 *	
56.0	42.2	13,000 *	60.0	45.7	12,100 *	64.0	48.3	11,400 *	
58.0	39.6	12,500 *	62.0	43.7	11,700 *	66.0	46.6	11,000 *	
60.0	37.0	12,100 *	64.0	41.5	11,400 *	68.0	44.8	10,700 *	
62.0 64.0	34.1 31.0	11,700 * 11,400 *	66.0 68.0	39.3 37.0	11,000 * 10,700 *	70.0 72.0	43.0 41.0	10,400 * 10,100 *	
66.0	27.6	11,000 *	70.0	34.5	10,400 *	74.0	39.0	9,700	
		,	72.0	31.8	10,100 *	76.0	36.9	9,200	
			74.0	28.9	9,800 *	78.0	34.7	9,000	
			76.0	25.7	9,400 *	80.0 82.0	32.4 29.9	8,500 8,300	
						84.0	27.2	7,900	
								,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
10	n' Bo	om	11	n' Bo	om	12	በ' Boo	om.	
	0' Boom			0' Boom			0' Boom		
Load Radius	Boom	360°	Load	Boom	360°	Load	Boom	360°	
Load	Boom								
Load Radius (ft) 46.0	Boom Angle (deg.) 65.4	360° Rated Load (lbs) 15,800 *	Load Radius (ft) 56.0	Boom Angle (deg.) 62.0	360° Rated Load (lbs) 11,900 *	Load Radius (ft) 56.0	Boom Angle (deg.) 64.5	360° Rated Load (lbs) 11,400 *	
Load Radius (ft) 46.0 48.0	Boom Angle (deg.) 65.4 64.1	360° Rated Load (lbs) 15,800 * 15,200 *	Load Radius (ft) 56.0 58.0	Boom Angle (deg.) 62.0 60.8	360° Rated Load (lbs) 11,900 * 11,700 *	Load Radius (ft) 56.0 58.0	Boom Angle (deg.) 64.5 63.4	360° Rated Load (lbs) 11,400 * 11,300 *	
Load Radius (ft) 46.0 48.0 50.0	Boom Angle (deg.) 65.4 64.1 62.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 *	Load Radius (ft) 56.0 58.0 60.0	Boom Angle (deg.) 62.0 60.8 59.6	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 *	Load Radius (ft) 56.0 58.0 60.0	Boom Angle (deg.) 64.5 63.4 62.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 *	
Load Radius (ft) 46.0 48.0 50.0 52.0	Boom Angle (deg.) 65.4 64.1	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 *	
Load Radius (ft) 46.0 48.0 50.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 *	Load Radius (ft) 56.0 58.0 60.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 *	Load Radius (ft) 56.0 58.0 60.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 *	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 *	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 10,800 * 10,600 * 10,200 * 9,900	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 *	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 68.0 60.0 64.0 66.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300 8,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 68.0 66.0 66.0 68.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,000 * 10,700 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 62.0 60.8 59.6 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 10,700 * 10,300	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 68.0 66.0 66.0 68.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,000 * 10,700 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 62.0 60.8 59.6 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 62.0 64.0 66.0 68.0 70.0 74.0 76.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 78.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 66.0 66.0 66.0 72.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,300 9,900 9,400 9,000 8,800 8,300	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,500 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 78.0 80.0 82.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 88.0 90.0 92.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 940.3 38.6 36.9	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,600 * 10,200 * 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 66.0 66.0 66.0 72.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,300 9,900 9,400 9,000 8,800 8,300	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 90.0 92.0 94.0 96.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 47.0 45.7 44.3 42.9 41.5 40.0	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 88.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,700 * 11,000 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 82.0 84.0 86.0 90.0 92.0 94.0 96.0 98.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 82.0 84.0 86.0 90.0 92.0 94.0 96.0 98.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9 30.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,700 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200 7,000	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 78.0 80.0 82.0 84.0 80.0 82.0 84.0 90.0 92.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.9 30.7 28.3	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,400 * 10,700 * 10,300 9,900 9,400 9,900 8,800 8,300 8,100 7,700 7,400 7,200 7,000 6,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2 27.0	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700 5,500	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 99.0 99.0 99.0 91.0 100.0 102.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9 35.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500 5,300	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9 30.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,700 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200 7,000	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500	
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 78.0 80.0 82.0 84.0 80.0 82.0 84.0 90.0 92.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.9 30.7 28.3	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,700 * 11,400 * 10,700 * 10,300 9,900 9,400 9,900 8,800 8,300 8,100 7,700 7,400 7,200 7,000 6,800	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2 27.0	360° Rated Load (lbs) 11,900 * 11,700 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700 5,500	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 99.0 99.0 99.0 91.0 96.0 98.0 100.0 102.0 104.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9 35.3 33.6	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500 5,300 5,100	

Refer to notes on page 29.



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 69,000 lbs (5) Counterweights fully installed.
 - Must have 31,700 lbs (2) Carbody weights fully installed.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 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)	430		Not Ap	plicable	

When auxiliary sheave is used for 8 or 7 reeving parts of line, it is not required to deduct 430 lbs from rated loads

- 8. To install the jib is prohibited when the machine is on a barge.
- The total load that can be lifted over an auxiliary sheave is the value for 430 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 24,000 lbs.

- 10. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
- 11. The boom should be erected over the front of the crawlers, not laterally.
- 12. Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	3	4	5							
Maximum Loads (lbs)	25,200	50,400	75,600	100,800	126,000							

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

Maximum Load for Auxiliary Sheave

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

14. Weight of recommended hook block.

H	look Block	110 t	77 t	55 t	39 t	12 t ball hook
٧	Veight (lbs)	3,815	1,990	1,875	1,545	660

Warning: If the weight of the hook block to be used is light than the recommended weight, the jib may turn over backv 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 or than that specified can reduce operating capacity.
- 16. Designed and rated to comply with ANSI Code B30.5.



Barge

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

	40	'Boor	n				50	'Boon	n				60	' Boor	n		
		360° Rated		Load (lbs)						d Load (lbs)				360° Rated		l Load (lbs)	
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
11.0	80.5	220,000*	26		26	12.0	81.2	213,200*	200	24	24	13.0	81.7	200,400 *	24		24
12.0	79.0	213,300 *				13.0	80.0	200,600 *				14.0	80.7	187,400 *			
13.0 14.0	77.5 76.0	200,800 * 188,100 *				14.0 15.0	78.9 77.7	187,800 * 175,600 *				15.0 16.0	79.8 78.8	175,200 * 164,800 *			
15.0	74.6	175,900 *	175,900 *			16.0	76.6	165,300 *				17.0	77.8	155,500 *			
16.0	73.1	165,500 *	165,500 *			17.0	75.4	156,000 *				18.0	76.8	146,900 *			
17.0	71.6	156,300 *	156,300 *	127,700 *		18.0	74.2	147,400 *	143,200 *			19.0	75.9	139,800 *	123,900 *		
18.0 19.0	70.1 68.5	147,800 * 140,500 *	146,400 * 134,600 *	126,100 * 122,400 *		19.0 20.0	72.9 71.7	140,100 * 132,400	132,200 * 122,900			20.0	74.9 72.9	132,200 115,100	118,100 * 105,300		
20.0	66.9	132,800	124,900	116,500 *	100,300 *	22.0	69.3	115,300	106,800	98,500 *		24.0	70.9	100,800	93,000	81,600 *	
22.0	63.7	115,600	108,300	103,400	97,800 *	24.0	66.8	101,000	94,400	89,500 *	77,800 *	26.0	68.8	89,100	83,200	78,700	
24.0	60.4	101,300	95,600	92,000	88,400	26.0	64.3	89,400	84,500	80,700	75,600 *	28.0	66.7	80,500	75,300	71,600	63,000 *
26.0	57.0	89,600	85,600	82,700	79,900	28.0	61.7	80,700	76,400	73,400	70,700	30.0	64.6	72,800	68,700	65,700	61,500 *
28.0	53.4 49.8	80,900 73,300	77,400 70,600	75,100 68,700	72,900 67,000	30.0 32.0	59.1 56.3	73,000 67,000	69,700 63,900	67,200 61,900	64,900 60,000	32.0 34.0	62.5 60.3	66,600 61,600	63,200 58,400	60,600 56,200	58,400 54,400
32.0	45.8	67,200	64,800	63,400	62,000	34.0	53.4	62,000	59,100	57,400	55,900	36.0	58.0	57,300	54,200	52,400	50,800
34.0	41.2	61,700	60,000	58,900	57,800	36.0	50.3	57,800	55,000	53,600	52,300	38.0	55.7	53,100	50,600	49,100	47,700
36.0	36.2	56,600	55,700 *	54,700 *	53,700 *	38.0	47.3	53,600	51,400	50,100	49,000	40.0	53.4	49,300	47,500	46,100	44,900
38.0 40.0	31.1 25.4	51,500 45,900 *	51,000 * 44,800 *	49,700 * 43,600 *	48,400 * 42,500 *	40.0 42.0	44.0 40.4	49,800 47,000	48,100 45,400	47,200 44,600	46,300 43,800	42.0 44.0	50.9 48.3	46,600 43,800	44,600 42,100	43,500 41,100	42,400 40,200
40.0	23.4	43,700	44,000	45,000	42,500	44.0	36.7	44,300	42,900	42,200	41,500	46.0	45.8	41,100	39,800	38,900	38,100
						46.0	62.9	41,500	40,600	40,000	39,500	48.0	42.8	39,200	37,700	37,000	36,300
						48.0	27.6	38,300	38,200 *	37,400 *	36,700 *	50.0	39.9	37,200	35,900	35,300	34,800
						50.0	22.3	35,100	34,800 *	33,900 *		55.0 60.0	31.2 20.7	32,900 28,600 *	31,900 *	31,500 *	31,100 *
												00.0	20.7	20,000			
Ree	ves	8	7	6	4	Rec	eves	8	6	4	4	Ree	eves	8	5	4	4
	/0	'Boon					δU	'Boon					90	'Boor			
Load	Boom		60° Rated	d I oad (Ir	101												
Radius		Πρατρο	1 Dograp		· -	Load	Room			Load (lb	1	Load	Room			Load (It	
(ft)	Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
(ft) 15.0	(deg.) 81.3	Machine List 151,000 *	Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 16.0	Angle (deg.) 81.6	O Degree Machine List 151,000 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 17.0	Angle (deg.) 81.9	O Degree Machine List 125,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft) 15.0 16.0	81.3 80.4	Machine List 151,000 * 151,000 *	Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 16.0 17.0	Angle (deg.) 81.6 80.9	0 Degree Machine List 151,000 * 149,300 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	### 17.0 18.0	Angle (deg.) 81.9 81.3	0 Degree Machine List 125,800 * 125,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft) 15.0	(deg.) 81.3	Machine List 151,000 *	Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 16.0	Angle (deg.) 81.6	O Degree Machine List 151,000 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 17.0	Angle (deg.) 81.9	O Degree Machine List 125,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft) 15.0 16.0 17.0 18.0 19.0	81.3 80.4 79.6 78.7 77.9	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 *	Machine	2 Degree Machine	2 Degree Machine	16.0 17.0 18.0 19.0 20.0	81.6 80.9 80.2 79.5 78.8	O Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800	1 Degree Machine	2 Degree Machine	2 Degree Machine	17.0 18.0 19.0 20.0 22.0	81.9 81.3 80.7 80.0 78.7	0 Degree Machine List 125,800 * 125,800 * 124,000 * 112,500 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft) 15.0 16.0 17.0 18.0 19.0 20.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200	Machine	2 Degree Machine	2 Degree Machine	16.0 17.0 18.0 19.0 20.0 22.0	81.6 80.9 80.2 79.5 78.8 77.3	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100	1 Degree Machine	2 Degree Machine	2 Degree Machine	17.0 18.0 19.0 20.0 22.0 24.0	81.9 81.3 80.7 80.0 78.7 77.4	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0	81.3 80.4 79.6 78.7 77.9 77.1 75.4	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400	Machine List	2 Degree Machine	2 Degree Machine	Padius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100	1 Degree Machine List	2 Degree Machine	2 Degree Machine
(ft) 15.0 16.0 17.0 18.0 19.0 20.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200	Machine	2 Degree Machine	2 Degree Machine	16.0 17.0 18.0 19.0 20.0 22.0	81.6 80.9 80.2 79.5 78.8 77.3	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100	1 Degree Machine	2 Degree Machine	2 Degree Machine	17.0 18.0 19.0 20.0 22.0 24.0	81.9 81.3 80.7 80.0 78.7 77.4	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800	92,400 82,800 75,000	2 Degree Machine List 68,700 * 67,400 *	2 Degree Machine List	Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800	1 Degree Machine List 81,800 74,100 67,700	2 Degree Machine List	2 Degree Machine List	Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600	73,000 * 66,900 61,600	2 Degree Machine List 50,600 *	2 Degree Machine
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000	92,400 82,800 75,000 68,500	2 Degree Machine List 68,700 * 67,400 * 65,000	2 Degree Machine List 53,600 *	Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2 69.7	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600	1 Degree Machine List 81,800 74,100 67,700 62,200	2 Degree Machine List 58,100 * 57,100 *	2 Degree Machine List	Padius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600	73,000 * 66,900 61,600 56,900	2 Degree Machine List 50,600 * 49,600 *	2 Degree Machine List
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 67,000	92,400 82,800 75,000 68,500 63,000	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100	2 Degree Machine List 53,600 * 51,800 *	Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0	81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2 69.7 68.2	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600	1 Degree Machine List 81,800 74,100 67,700 62,200 57,500	2 Degree Machine List 58,100 * 57,100 * 54,700	2 Degree Machine List 46,400 * 44,700 *	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	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 1100,800 89,100 80,500 72,800 66,600 61,600 57,300	73,000 * 66,900 61,600 56,900 53,000	2 Degree Machine List 50,600 * 49,600 * 49,000 *	2 Degree Machine List 39,900 *
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000	92,400 82,800 75,000 68,500 63,000 58,300	2 Degree Machine List 68,700 * 67,400 * 65,000	2 Degree Machine List 53,600 *	Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2 69.7	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 101,000 89,200 80,500 72,800 66,600 61,600 57,300	1 Degree Machine List 81,800 74,100 67,700 62,200 57,500 53,500	2 Degree Machine List 58,100 * 57,100 * 54,700 51,000	2 Degree Machine List	Padius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	73,000 * 66,900 61,600 56,900	2 Degree Machine List 50,600 * 49,600 *	2 Degree Machine List
(ft) 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	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9	Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 67,000 62,000	92,400 82,800 75,000 68,500 63,000	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700	2 Degree Machine List 53,600 * 51,800 * 49,900 *	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	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 72.8 71.2 69.7 68.2 66.6 65.1 63.5	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600	1 Degree Machine List 81,800 74,100 67,700 62,200 57,500	2 Degree Machine List 58,100 * 57,100 * 54,700	2 Degree Machine List 46,400 * 44,700 * 43,300 *	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	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 1100,800 89,100 80,500 72,800 66,600 61,600 57,300	73,000 * 66,900 61,600 56,900 49,500	2 Degree Machine List 50,600 * 49,600 * 49,000 * 47,000	2 Degree Machine List 39,900 * 38,500 *
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3	Machine List 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 67,000 67,000 57,800 53,600 49,800	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 43,800	Redius (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 42.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 75.8 69.7 68.2 66.6 65.1 63.5 61.8	O Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600 53,100 49,300 46,600	1 Degree Machine List 81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800 44,100	2 Degree Machine List 58,100 * 57,100 * 54,700 51,000 47,800 45,000 42,400	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 *	Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 49,300 46,500 43,700	73,000 * 66,900 61,600 56,900 49,500 46,300 43,600 41,100	2 Degree Machine List 50,600 * 49,600 * 47,000 * 44,200 41,700 39,500	39,900 * 38,500 * 37,600 * 36,400 * 35,400 *
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 32.0 34.0 36.0 38.0 40.0 42.0	(dég.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 68.5 66.7 64.9 63.0 61.2 59.3 57.3	Machine List 151,000 * 149,400 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 62,000 57,800 49,800 46,900	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 44,600	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 43,800 41,500	Redius (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 42.0 44.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 75.8 69.7 68.2 66.6 65.1 63.5 61.8 60.2	ODegree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 66,600 61,600 57,300 53,100 46,600 43,800	81,800 74,100 67,700 62,200 57,500 53,500 46,800 44,100 41,600	2 Degree Machine List 58,100 * 57,100 * 54,700 \$ 51,000 42,400 40,100	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700	Redius (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 40.0 42.0 44.0 46.0	Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900	73,000 * 66,900 61,600 56,900 49,500 46,300 41,100 38,900	2 Degree Machine List 50,600 * 49,600 * 49,000 * 47,000 44,200 39,500 37,400	39,900 * 38,500 * 36,400 * 35,400 * 34,300
(ft) 15.0 16.0 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 44.0	(dég.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 68.5 66.7 64.9 63.0 61.2 59.3 57.3 55.3	Machine List 151,000 * 149,400 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 67,000 62,000 57,800 53,600 49,800 46,900 44,100	92,400 82,800 75,000 68,500 63,000 58,300 54,200 50,600 47,400 44,600 42,100	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 43,100 40,800	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700	Redius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 69.7 68.2 66.6 65.1 63.5 61.8 60.2 58.5	ODegree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 66,600 61,600 57,300 53,100 49,300 44,600 43,800 41,100	81,800 74,100 67,700 62,200 57,500 53,500 50,000 44,100 41,600 39,300	2Degree Machine List 58,100 * 57,100 * 54,700 * 51,000 47,800 42,400 40,100 38,000	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 37,700 36,200	Redius (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 42.0 44.0 46.0 48.0	Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9	0 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 110,800 89,100 80,500 66,600 61,600 57,300 53,100 49,300 46,500 40,900 38,900	73,000 * 66,900 61,600 56,900 49,500 43,600 43,600 38,900 36,900	2 Degree Machine List 50,600 * 49,600 * 49,000 * 41,700 41,700 39,500 37,400 35,600	39,900 * 38,500 * 37,600 * 36,400 * 34,300 33,200
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 32.0 34.0 36.0 38.0 40.0 42.0	(dég.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 68.5 66.7 64.9 63.0 61.2 59.3 57.3	Machine List 151,000 * 149,400 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 62,000 57,800 49,800 46,900	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 44,600	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 43,800 41,500	Redius (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 42.0 44.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 75.8 69.7 68.2 66.6 65.1 63.5 61.8 60.2	ODegree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 66,600 61,600 57,300 53,100 46,600 43,800	81,800 74,100 67,700 62,200 57,500 53,500 46,800 44,100 41,600	2 Degree Machine List 58,100 * 57,100 * 54,700 \$ 51,000 42,400 40,100	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700	Redius (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 40.0 42.0 44.0 46.0	Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9	0 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900	73,000 * 66,900 61,600 56,900 49,500 46,300 41,100 38,900	2 Degree Machine List 50,600 * 49,600 * 49,000 * 47,000 44,200 39,500 37,400	39,900 * 38,500 * 36,400 * 35,400 * 34,300
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0	(deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 72.0 68.5 66.7 64.9 63.0 61.2 59.3 57.3 55.3 51.2 49.0	Machine List 151,000 * 149,400 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 67,000 62,000 57,800 53,600 49,800 44,100 44,1300 39,400 37,400	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 42,100 39,800 37,700 35,900	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 39,700 35,900 34,300	Redius (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 42.0 44.0 46.0 48.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 71.2 69.7 68.2 66.6 65.1 63.5 61.8 60.2 58.5 55.8 55.1 50.5	O Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100 32,700	81,800 74,100 67,700 62,200 57,500 53,500 44,100 41,600 39,300 37,300 31,500	2 Degree Machine List 58,100 * 57,100 * 54,700 51,000 47,800 42,400 40,100 38,000 38,000 34,500 30,800	2 Degree Mechine List 46,400 * 44,700 * 43,300 * 41,800 * 37,700 36,200 34,800 33,600 30,000	Redius (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 44.0 44.0 46.0 48.0 55.0 60.0	Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 63.2 60.9 59.4 55.7 51.7	0 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 112,500 * 110,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 32,500 29,000	73,000 * 66,900 61,600 56,900 49,500 44,3600 41,100 38,900 36,900 35,100 31,200 28,100	50,600 * 49,600 * 47,000 44,200 41,700 39,500 37,400 30,300 27,400	39,900 * 38,500 * 37,600 * 35,400 * 34,300 33,200 29,200 26,600
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 40.0 42.0 44.0 46.0 48.0 55.0	(dég.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 57.3 57.3 51.2 49.0	Machine List 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 67,000 62,000 57,800 53,600 49,800 44,100 39,400 37,400 33,200	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 42,100 39,800 37,700 35,900 32,000	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 43,100 40,800 38,700 38,700 35,100 31,400	2 Degree Machine List 53,600 * 51,800 * 49,900 * 45,800 41,500 39,700 31,700 33,900 30,800	Redius (ft) 16.00 18.00 19.00 22.00 24.00 26.00 28.00 33.00 34.00 34.00 34.00 44.00 44.00 45.00 55.00 60.00	Angle (deg.) 81.6 80.9 79.5 78.8 77.3 75.8 74.3 72.8 66.6 65.1 63.5 66.2 58.5 56.8 55.1 50.5 45.7	O Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300 44,800 41,100 37,100 32,700 29,200	81,800 74,100 67,700 62,200 57,500 53,500 44,100 41,600 39,300 31,500 28,300	2 Degree Machine List 58,100 * 57,100 * 54,700 45,000 42,400 40,100 38,000 36,200 30,800 27,700	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 37,700 36,200 33,600 33,600 27,200	Redius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 44.0 48.0 55.0 65.0 65.0	Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 60.9 59.4 55.7 51.7 47.4	0 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	73,000 * 66,900 61,600 49,500 43,600 41,100 38,900 36,900 35,100 31,200 28,100 25,400	2 Degree Machine List 50,600 * 49,600 * 49,000 * 47,000 44,200 41,700 39,500 37,400 35,600 30,300 27,400 24,800	39,900 * 38,500 * 36,400 * 34,300 33,200 29,200 26,600 24,200
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 34.0 44.0 46.0 48.0 50.0 55.0 60.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 57.3 57.3 51.2 49.0 43.2 36.9	Machine List 151,000 * 149,400 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 62,000 57,800 49,800 44,100 41,300 39,400 37,400 33,200 29,600	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 44,600 42,100 39,800 32,000 28,800	2 Degree Machine List 68,700 * 67,400 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400 28,400	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Redius (ft) 16.00 17.00 18.00 19.00 22.00 24.00 26.00 28.00 30.00 34.00 36.00 38.00 44.00 44.00 44.00 45.00 55.00 66.00 65.00	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 66.6 65.1 63.5 61.8 60.2 58.5 56.5 150.5 45.7 40.4	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,600 41,100 39,100 39,100 32,700 29,200 26,300	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500 31,500 28,300 25,700	2 Degree Machine List 58,100 * 57,100 * 54,700 51,000 47,800 42,400 40,100 38,000 36,200 30,800 27,700 25,300	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 39,000 * 37,700 34,800 33,600 33,600 27,200 24,800	Redius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 68.0 66.6 65.2 63.8 62.4 60.9 55.7 51.7 47.4 42.9	0 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 22,000 26,100 23,800	73,000 * 66,900 61,600 49,500 44,100 38,900 35,100 28,100 25,400 23,100	2 Degree Machine List 50,600 * 49,600 * 49,000 * 47,000 41,700 39,500 37,400 35,600 34,000 22,700	39,900 * 38,500 * 37,600 * 36,400 * 34,300 32,000 29,200 24,200 22,200
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 40.0 42.0 44.0 46.0 48.0 55.0	(dég.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 57.3 57.3 51.2 49.0	Machine List 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 67,000 62,000 57,800 53,600 49,800 44,100 39,400 37,400 33,200	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 42,100 39,800 37,700 35,900 32,000	2 Degree Machine List 68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 43,100 40,800 38,700 38,700 35,100 31,400	2 Degree Machine List 53,600 * 51,800 * 49,900 * 45,800 41,500 39,700 31,700 33,900 30,800	Redius (ft) 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 44.0 46.0 48.0 50.0 65.0 70.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 71.2 66.6 65.1 63.5 66.8 60.2 58.5 56.8 55.1 50.5 45.7 40.4 34.3	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 46,600 43,800 41,100 39,100 37,100 32,700 29,200 26,300 24,100	81,800 74,100 67,700 62,200 57,500 53,500 46,800 44,100 41,600 39,300 37,300 31,500 28,300 25,700 23,400	2Degree Machine List 58,100 * 57,100 * 54,700 * 51,000 42,400 40,100 38,000 36,200 34,500 30,800 27,700 25,300 23,100	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 39,000 * 37,700 36,200 34,800 33,600 30,000 27,200 24,800 22,800	Redius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 36.0 38.0 36.0 38.0 44.0 44.0 46.0 48.0 55.0 60.0 75.0 75.0	Angle (deg.) 81.9 81.9 81.9 80.0 78.7 77.4 76.1 74.8 73.5 72.1 76.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.1, 47.4 42.9 37.9	0 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800 21,800	73,000 * 66,900 61,600 56,900 49,500 44,100 38,900 35,100 31,200 28,100 22,100 21,200	2 Degree Machine List 50,600 * 49,600 * 49,000 * 41,700 39,500 37,400 35,600 34,000 27,400 22,700 20,800	39,900 * 38,500 * 37,600 * 36,400 * 34,300 32,000 29,200 26,600 24,200 22,200 20,500
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 34.0 42.0 44.0 46.0 48.0 55.0 60.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 57.3 57.3 51.2 49.0 43.2 36.9	Machine List 151,000 * 149,400 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 62,000 57,800 49,800 44,100 41,300 39,400 37,400 33,200 29,600	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 44,600 42,100 39,800 32,000 28,800	2 Degree Machine List 68,700 * 67,400 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400 28,400	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Redius (ft) 16.00 17.00 18.00 19.00 22.00 24.00 26.00 28.00 30.00 34.00 36.00 38.00 44.00 44.00 44.00 45.00 55.00 66.00 65.00	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 71.2 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7 40.4 34.3	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,600 41,100 39,100 39,100 32,700 29,200 26,300	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500 31,500 28,300 25,700	2 Degree Machine List 58,100 * 57,100 * 54,700 51,000 47,800 42,400 40,100 38,000 36,200 30,800 27,700 25,300	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 39,000 * 37,700 34,800 33,600 33,600 27,200 24,800	Redius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.9 81.9 80.0 78.7 77.4 76.1 74.8 73.5 72.1 76.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.1, 47.4 42.9 37.9	0 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 22,000 26,100 23,800	73,000 * 66,900 61,600 49,500 44,100 38,900 35,100 28,100 25,400 23,100	2 Degree Machine List 50,600 * 49,600 * 49,000 * 47,000 41,700 39,500 37,400 35,600 34,000 22,700	39,900 * 38,500 * 37,600 * 35,400 * 34,300 32,000 29,200 24,200 22,200
(ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 44.0 44.0 44.0 46.0 55.0 60.0 65.0	(deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 57.3 57.3 51.2 49.0 43.2 36.9	Machine List 151,000 * 149,400 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000 62,000 57,800 49,800 44,100 41,300 39,400 37,400 33,200 29,600	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 44,600 42,100 39,800 32,000 28,800	2 Degree Machine List 68,700 * 67,400 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400 28,400	2 Degree Machine List 53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Redius (ft) 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 44.0 46.0 48.0 55.0 60.0 75.0	Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 71.2 66.6 65.1 63.5 66.8 60.2 58.5 56.8 55.1 50.5 45.7 40.4 34.3	0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 46,600 43,800 41,100 39,100 37,100 32,700 29,200 26,300 24,100	81,800 74,100 67,700 62,200 57,500 53,500 46,800 44,100 41,600 39,300 37,300 31,500 28,300 25,700 23,400	2Degree Machine List 58,100 * 57,100 * 54,700 * 51,000 42,400 40,100 38,000 36,200 34,500 30,800 27,700 25,300 23,100	2 Degree Machine List 46,400 * 44,700 * 43,300 * 41,800 * 39,000 * 37,700 36,200 34,800 33,600 30,000 27,200 24,800 22,800	Redius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 38.0 34.0 36.0 38.0 44.0 44.0 44.0 55.0 65.0 65.0 65.0 75.0 85.0	Angle (deg.) 81.9 81.9 81.3 80.7 80.0 78.7 77.4 76.1 70.8 69.4 68.0 66.6 65.2 65.3 62.4 60.9 59.4 42.9 37.9 32.2	0 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 112,500 * 100,800 89,100 80,500 66,600 61,600 57,300 53,100 49,300 46,500 38,900 36,900 32,500 29,000 26,100 21,800 20,100	73,000 * 66,900 61,600 56,900 49,500 44,100 38,900 35,100 31,200 28,100 25,400 19,600 19,600	2 Degree Machine List 50,600 * 49,600 * 49,000 * 41,700 37,400 35,600 34,000 27,400 22,700 22,800 19,300	39,900 * 38,500 * 37,600 * 36,400 * 34,300 32,000 29,200 26,600 24,200 22,200 19,100

Refer to notes on page 32.



Barge

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

	100	' Boo	m				110)' Boo	m				120)' Boo	m		
			60° Rated	d Load (lb	ns)				60° Rated	l Load (lb) (S)				60° Rated	d Load (lb)S)
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 List	Machine List
19.0	81.6	125,600 *				20.0	81.8	100,800 *				22.0	81.6	98,700 *			
20.0	81.0 79.9	123,600 * 112,200 *				22.0 24.0	80.8 79.7	100,800 * 96,500 *				24.0 26.0	80.6 79.6	94,200 * 88,000 *			
24.0	78.7	100,600				26.0	78.6	88,500 *				28.0	78.6	79,900			
26.0	77.5	88,900				28.0	77.6	80,200				30.0	77.7	72,200			
28.0	76.3	80,200				30.0	76.5	72,400				32.0	76.7	66,100			
30.0	75.1	72,400				32.0	75.4	66,300				34.0	75.7	61,100	53,000 *		
32.0 34.0	74.0 72.8	66,300 61,300	60,800			34.0 36.0	74.3 73.2	61,300 57,000	55,900*			36.0 38.0	74.7 73.7	56,800 52,500	51,300		
36.0	71.6	57,000	56,300 52,300	43,500 *		38.0	72.2	52,700	51,900 48,600			40.0	72.7	48,700	47,900 45,000	33,900 *	
38.0	70.3	52,700	48,900	42,900 *		40.0	71.1	48,900	45,500	37,900 *		42.0	71.7	45,800	42,200	33,400 *	
40.0	69.1	48,900	45,800	42,400 *	34,800 *	42.0	70.0	46,200	42,900	37,500 *		44.0	70.7	43,000	39,800	33,000 *	
42.0	67.9	46,200	43,100	40,900 *	33,500 *	44.0	68.9	43,400	40,400	37,000 *	28,900 *	46.0	69.7	40,200	37,600	32,800 *	
44.0	66.6	43,400	40,700	38,800	32,500 *	46.0	67.8	40,700	38,200	36,200 *	28,600 *	48.0	68.6	38,300	35,600	32,300 *	24.000
46.0 48.0	65.4 64.1	40,700 38,700	38,500 36,500	36,800 35,000	31,700 * 30,900 *	48.0 50.0	66.6 65.4	38,700 36,600	36,300 34,500	34,600 32,900	28,200 * 27,900 *	50.0 55.0	67.6 65.0	36,300 32,000	34,000 30,200	31,700 * 28,900	24,800
50.0	62.8	36,600	34,700	33,400	30,000 *	55.0	62.5	32,300	30,500	29,400	27,200 *	60.0	62.3	28,300	27,100	26,000	23,600
55.0	59.5	32,300	30,800	29,700	27,800 *	60.0	59.5	28,700	27,400	26,400	25,500	65.0	59.6	25,400	24,400	23,500	22,700
60.0	56.1	28,700	27,500	26,700	25,500	65.0	56.5	25,900	24,700	23,900	23,100	70.0	56.8	23,200	22,200	21,400	20,800
65.0	52.5	25,900	24,900	24,300	23,600	70.0	53.2	23,500	22,500	21,800	21,200	75.0	53.8	21,200	20,300	19,700	19,100
70.0 75.0	48.8 44.8	23,500 21,400	22,700 20,700	22,100 20,300	21,500 20,000	75.0 80.0	49.9 46.4	21,400 19,600	20,600 19,000	20,000 18,600	19,500 18,200	80.0 85.0	50.8 47.7	19,400 17,700	18,600 17,200	18,100 16,700	17,600 16,300
80.0	44.6	19,600	19,200	18,800	18,500	85.0	42.6	18,100	17,700	17,300	17,000	90.0	44.3	16,500	15,900	15,600	15,300
85.0	36.0	18,100	17,700	17,500	17,200	90.0	38.6	16,800	16,400	16,100	15,700	95.0	40.7	15,300	14,800	14,500	14,300
90.0	30.5	16,900	16,500	16,300	16,100	95.0	34.1	15,600	15,200	15,000	14,800	100.0	36.9	14,200	13,800	13,600	13,400
95.0	24.0	15,800	15,400	15,300	15,100	100.0	29.1	14,600	14,300	14,200	14,000	110.0	27.8	12,600	12,200	12,000	11,900
						105.0	23.2	13,770	13,500	13,300		115.0	22.2	11,840	11,500		
Ree	ves	5	4	2	2	Rec	eves	4	4	2	2	Ree	eves	4	4	2	2
	130)' Boo	m				140)' Boo	m				150)' Boo	m		
			60° Rated						60° Rated						60° Rated		
Load Radius	Boom Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine	Load Radius	Boom Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine	Load Radius	Boom Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	2 Degree Machine
(ft)	(deg.)	List	List	List	List	(ft)	(deg.)	List	List	List	List	(ft)	(deg.)	List	List	List	List
24.0	81.3 80.4	85,100 *				24.0	81.9	72,900 * 71,800 *				26.0 28.0	81.7 80.9	62,200 *			
26.0 28.0	79.5	83,900 * 78,200 *				26.0 28.0	81.1	70,800 *				30.0	80.1	61,300 * 60,400 *			
30.0	78.6	71,900				30.0	79.4	69,000 *				32.0	79.4	59,400 *			
32.0	77.7	65,900				32.0	78.6	64,700 *				34.0	78.6	57,200 *			
34.0	76.9	60,900				34.0	77.8	60,500				36.0	77.8	54,100 *			
36.0	75.9	56,600	46 400 *			36.0	76.9	56,200				38.0	77.0	51,000 *			
38.0 40.0	75.0 74.1	52,300 48,400	46,400 * 44,500			38.0 40.0	76.1 75.2	52,000 48,200	41,500 *			40.0 42.0	76.3 75.5	48,000 45,200	37,100*		
42.0	73.2	45,600	41,700			42.0	74.4	45,400	40,600 *			44.0	74.7	42,400	36,600 *		
44.0	72.2	42,800	39,400	29,700 *		44.0	73.5	42,600	38,900			46.0	73.9	39,600	35,800 *		
46.0	71.3	40,000	37,200	29,400 *		46.0	72.7	39,800	36,800			48.0	73.1	37,500	34,500		
48.0	70.4	38,000	35,300	29,100 *		48.0	71.8	37,800	34,900			50.0	72.3	35,500	32,800	23,300 *	
50.0 55.0	69.4 67.1	36,000 31,600	33,600 29,700	28,700 * 27,900 *	21,700 *	50.0 55.0	71.0 68.8	35,800 31,400	33,200 29,400	25,100 *	19,200*	55.0 60.0	70.3 68.2	31,200 27,600	29,000 25,800	22,700 * 22,000 *	16,800
60.0	64.6	28,100	26,600	25,500	21,700 *	60.0	66.6	27,800	26,200	24,500 *	18,700 *	65.0	66.2	24,800	23,300	21,600 *	16,500
65.0	62.2	25,200	24,100	23,100	20,700 *	65.0	64.3	25,000	23,500	22,400 *	18,300*	70.0	64.0	22,400	21,100	20,100 *	16,100
70.0	59.6	22,900	21,900	21,100	20,000 *	70.0	62.0	22,600	21,300	20,500	17,900 *	75.0	61.9	20,300	19,200	18,300	15,700
75.0	57.0	20,900	20,000	19,300	18,700	75.0	59.7	20,500	19,500	18,700	17,400 *	80.0	59.6	18,500	17,600	17,000	15,400
	54.3 51.6	19,000 17,500	18,300 16,900	17,700 16,400	17,200 16,000	80.0 85.0	57.3 54.8	18,700 17,200	17,800 16,400	17,200 15,800	16,600 15,400	85.0 90.0	57.4 55.2	17,000 15,700	16,200 14,900	15,500 14,400	14,900 ¹ 14,000
80.0 85.0	J 1.0	16,100	15,700	15,300	14,900	90.0	52.2	15,900	15,200	14,700	14,300	95.0	52.8	14,400	13,800	13,300	13,000
85.0	487			14,200	13,900	95.0	49.5	14,600	14,100	13,700	13,300	100.0	50.3	13,400	12,800	12,500	12,100
	48.7 45.6	15,000	14,600	14,200			i										i :
85.0 90.0			14,600 13,600	13,300	13,000	100.0	46.8	13,600	13,100	12,800	12,500	110.0	45.1	11,700	11,200	10,900	10,700
85.0 90.0 95.0 100.0 110.0	45.6 42.4 35.4	15,000 14,000 12,100	13,600 11,900	13,300 11,700	13,000 11,600	110.0	40.8	11,900	11,400	11,200	11,000	120.0	39.3	10,300	9,900	9,600	10,700 9,400
85.0 90.0 95.0 100.0 110.0 120.0	45.6 42.4 35.4 26.6	15,000 14,000 12,100 10,800	13,600 11,900 10,600	13,300	13,000	110.0 120.0	40.8 34.0	11,900 10,300	11,400 10,100	11,200 9,900	11,000 9,800	120.0 130.0	39.3 32.8	10,300 8,900	9,900 8,800	9,600 8,600	9,400 8,400
85.0 90.0 95.0 100.0 110.0	45.6 42.4 35.4	15,000 14,000 12,100	13,600 11,900	13,300 11,700	13,000 11,600	110.0	40.8 34.0 25.7	11,900	11,400	11,200	11,000	120.0	39.3	10,300	9,900	9,600	9,400

Refer to notes on page 32.



Barge

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

	160)' Boo	m				170)' Boo	m				180)' Boo	m		
	360° Rated Load (lbs)			360° Rated Load (lbs)						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 List	Machine List
28.0	81.5	50,200*				30.0	81.3	44,500 *				30.0	81.8	39,300*			
30.0	80.8	50,100 *				32.0	80.7	43,900 *				32.0	81.2	38,800 *			
32.0 34.0	80.1 79.4	49,700 * 49,200 *				34.0 36.0	80.0 79.3	43,200 * 42,500 *				34.0 36.0	80.5 79.9	38,200 * 37,600 *			
36.0	78.6	48,500 *				38.0	78.6	41,900 *				38.0	79.2	37,000 *			
38.0	77.9	47,800 *				40.0	77.9	41,200*				40.0	78.6	36,400 *			
40.0	77.2	46,600 *				42.0	77.2	40,600 *				42.0	77.9	35,800 *			
42.0 44.0	76.4 75.6	44,300 * 42.100 *	32,200 *			44.0 46.0	76.5 75.8	40,000 * 39,300 *				44.0 46.0	77.2 76.6	35,100 * 34,500 *			
46.0	74.9	39,800	31,700 *			48.0	75.1	37,400 *	28,400 *			48.0	75.9	33,900*			
48.0	74.1	37,800	31,300 *			50.0	74.4	35,400 *	28,100 *			50.0	75.3	33,300 *			
50.0 55.0	73.4 71.5	35,800 31,400	31,000 * 28,900 *	20,000 *		55.0 60.0	72.6 70.9	31,200 27,600	27,100 * 25,400 *	17,700 * 17,300 *		55.0 60.0	73.7 72.0	30,800 * 27,400	24,200 * 22,900 *	15,300 *	
60.0	69.6	27,800	26,000	19,300*		65.0	69.1	24,600	23,000	16,900 *		65.0	70.3	24,400	21,800 *	15,100 *	
65.0	67.7	25,000	23,400	18,900 *	14,400 *	70.0	67.3	22,300	20,900	16,400 *	12,400 *	70.0	68.6	21,900	20,400 *	14,600*	10,800 *
70.0	65.8	22,600	21,200	18,500 *	14,000 *	75.0	65.4	20,300	19,000	16,000 *	12,200 *	75.0	66.9	19,900	18,700	14,200 *	10,600 *
75.0 80.0	63.8 61.8	20,500 18,700	19,300 17,700	18,000 * 16,900	13,700 * 13,400 *	80.0 85.0	63.5	18,500 16,800	17,400 16,000	15,600 * 15,300 *	11,800 * 11,500 *	80.0 85.0	65.2 63.4	18,100 16,600	17,100 15,700	13,800 * 13,500 *	10,400 * 10,000 *
85.0	59.7	17,000	16,300	15,600	13,100 *	90.0	59.7	15,400	14,700	14,000	11,300 *	90.0	61.6	15,200	14,400	12,900 *	9,700*
90.0	57.6	15,700	15,000	14,300	12,800 *	95.0	57.8	14,300	13,600	13,200	11,100 *	95.0	59.8	14,000	13,200	12,200*	9,500 *
95.0	55.4	14,500	13,900 12,900	13,500	12,400 *	100.0 110.0	55.8	13,300	12,600	12,100	10,800 *	100.0	57.9	12,900	12,300	11,600 *	9,300 *
100.0 110.0	53.2 48.6	13,500 11,700	11,100	12,400 10,900	12,000 10,600	120.0	51.5 47.0	11,500 9,800	10,900 9,600	10,600 9,300	10,100 * 9,000	110.0 120.0	54.0 49.9	11,100 9,600	10,600 9,100	10,300 8,800	8,500 * 7,700 *
120.0	43.6	10,100	9,800	9,600	9,300	130.0	42.2	8,700	8,400	8,200	8,000	130.0	45.6	8,500	8,000	7,700	6,900 *
130.0	38.1	8,900	8,600	8,500	8,300	140.0	36.8	7,700	7,300	7,100	7,000	140.0	40.9	7,400	7,000	6,900	6,000 *
140.0	31.6	7,900	7,800	7,600	7,500	150.0	30.5	6,800	6,500 5,800 *	6,400 5 900 *	6,200 *	150.0	35.7	6,500	6,200	6,000 5,000 *	5,000 * 4,200 *
150.0	23.7	7,100	6,900	6,800	6,700	160.0	23.2	5,900	3,000 "	5,800 *	5,100 *	160.0 165.0	29.7 26.5	5,600 5,100	5,400 5,100	4,400 *	3,600 *
Ree	eves	2	2	2	2	Rec	eves	2	2	2	2	Ree	eves	2	2	2	2
	190)' Boo					200)' Boo									
			M				200		111								
				d Load (It)S)		200		III 60° Rated	l Load (lb) s)						
Load Radius (ft)	Boom Angle (deg.)			d Load (II: 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 (ft) 32.0	Boom Angle	0 Degree Machine	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius	Boom Angle (deg.) 81.5	O Degree Machine List 30,300 *	60° Rateo 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 34,400 * 33,800 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0	Boom Angle (deg.) 81.5 80.9	3 0 Degree Machine List 30,300 * 29,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0	Boom Angle (deg.) 81.6 81.0 80.4	30 Degree Machine List 34,400 * 33,800 * 33,300 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0	Boom Angle (deg.) 81.5 80.9 80.3	3 0 Degree Machine List 30,300 * 29,700 * 29,200 *	60° Rateo 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 34,400 * 33,800 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0	Boom Angle (deg.) 81.5 80.9	3 0 Degree Machine List 30,300 * 29,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
32.0 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6	30 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6	3 0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0	30 Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 27,300 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
32.0 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6	30 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6	3 0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0	800m Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4	34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	800m Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5	3,400 * 33,800 * 32,700 * 32,200 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 *	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8	30,300 ** 29,700 ** 29,200 ** 28,700 ** 28,200 ** 27,700 ** 27,300 ** 26,800 ** 26,300 ** 24,900 ** 23,200 **	60° Patec 1 Degree Machine List	2 Degree Machine List	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0	30 Degree Machine 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 31,100 * 30,100 * 29,600 * 28,100 * 26,200 *	1 Degree Machine List 21,700 * 20,600 *	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 *	60° Patece 1 Degree Machine List 18,200 * 17,100 *	2 Degree Machine List	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5	3,400 * 33,800 * 32,700 * 32,200 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 *	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8	30,300 ** 29,700 ** 29,200 ** 28,700 ** 28,200 ** 27,700 ** 27,300 ** 26,800 ** 26,300 ** 24,900 ** 23,200 **	60° Patec 1 Degree Machine List	2 Degree Machine List	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2	34,400 * 33,800 * 33,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 21,800 19,900	1 Degree Machine List 21,700 * 20,600 * 19,500 * 18,400 * 17,300 *	2 Degree Machine List 13,300 * 13,100 * 12,700 *	2 Degree Machine List	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 20,000 * 18,500 * 17,100 *	1 Degree Machine List 18,200 * 17,100 * 16,100 * 15,100 * 14,100 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,600 *	2 Degree Machine List						
Redius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.5	30 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 26,200 * 24,000 * 21,800 19,900 18,000	21,700 * 20,600 * 11,300 * 11,300 * 16,200 *	2 Degree Machine List 13,300 * 13,100 * 12,700 * 12,400 *	2 Degree Machine List	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 *	18,200 * 17,100 * 16,100 * 14,100 * 14,100 * 13,300 * 13,300 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,600 * 10,100 *	2 Degree Machine List 7,700 * 7,500 *						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2	30 O Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 21,800 19,900 16,400 16,400	21,700 * 20,600 * 11,300 * 16,200 * 15,300 *	2 Degree Machine List 13,300 * 13,100 * 12,700 *	2 Degree Machine List	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 21,500 * 11,7100 * 15,900 * 14,700	1 Degree Machine List 18,200 * 17,100 * 16,100 * 15,100 * 14,100 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,600 *	2 Degree Machine List 7,700 * 7,500 * 7,200 *						
Redius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 65.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9	30 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 26,200 * 24,000 * 21,800 19,900 18,000	21,700 * 20,600 * 11,300 * 11,300 * 16,200 *	2 Degree Machine List 13,300 * 13,100 * 12,700 * 12,400 * 11,900 *	2 Degree Machine List 9,200 * 9,000 * 8,800 *	Redius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 72.4 70.9 69.3 67.8 66.2 64.6	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 *	18,200 * 17,100 * 15,100 * 11,300 * 12,400 * 12,400 * 12,400 * 12,400 * 12,400 * 12,400 * 12,400 * 13,300 * 12,400 * 12,400 * 13,300 * 12,400 * 12,400 * 14,100 * 14,	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,100 * 9,500 *	2 Degree Machine List 7,700 * 7,500 *						
Radius (ft) 32.0 34.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 65.0 70.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 66.5 66.9 63.2 61.5 59.7	34,400 * 33,800 * 32,700 * 31,700 * 30,100 * 29,600 * 21,800 * 15,000 * 15,000 * 15,000 * 13,900 * 12,900 * 12,900 * 12,900 * 15,000 * 12,900 * 12,900 * 12,900 * 12,900 * 12,900 * 12,900 * 13,900 * 12,	21,700 * 20,600 * 115,300 * 14,100 13,000 12,000	2 Degree Machine List 13,300 * 13,100 * 12,700 * 11,400 * 11,400 * 11,400 * 11,600 * 10,000	9,200 * 9,000 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 *	Redius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 99.0 110.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 66.2 66.6 63.0 61.4 58.1	30,300 * 29,700 * 29,700 * 29,200 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 18,500 * 17,100 * 15,900 * 14,700 12,400 10,600	18,200 * 17,100 * 16,100 * 14,100 * 12,400 * 11,000 * 9,500 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,500 * 8,400 * 7,400 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 *						
Radius (ft) 32.0 34.0 36.0 36.0 40.0 42.0 44.0 46.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0	Boom Angle (deg.) 81.6 81.0 81.0 79.8 67.4 76.1 76.1 74.5 64.9 66.5 64.9 66.5 59.7 56.2	30 Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,100 * 29,600 * 24,000 * 24,000 * 21,800 15,000 15,000 12,900 11,000 11,000	21,700 * 20,600 * 11,300 * 15,300 * 14,100 12,000 10,400	13,300 * 13,100 * 12,700 * 11,300 * 11,300 * 11,000 * 10,000 * 8,900 *	2 Degree Machine List 9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 7,400 *	Redius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 110.0	Boom Angle (deg.) 81.5 80.9 87.7 79.1 78.6 78.0 77.4 76.8 75.3 72.4 70.9 69.3 66.2 64.6 61.4 58.1 54.6	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 21,500 * 15,900 * 14,700 * 13,500 * 12,400 10,600 9,200	18,200 * 17,100 * 16,100 * 12,400 * 11,700 * 11,700 * 11,700 * 11,700 * 9,500 * 8,200 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 3,400 * 7,400 * 6,500 *	7,700 * 7,500 * 7,000 * 7,000 * 6,800 * 6,000 * 5,200 *						
Radius (ft) 32.0 34.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 65.0 70.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 66.5 66.9 63.2 61.5 59.7	34,400 * 33,800 * 32,700 * 31,700 * 30,100 * 29,600 * 21,800 * 15,000 * 15,000 * 15,000 * 13,900 * 12,900 * 12,900 * 12,900 * 15,000 * 12,900 * 12,900 * 12,900 * 12,900 * 12,900 * 12,900 * 13,900 * 12,	21,700 * 20,600 * 115,300 * 14,100 13,000 12,000	2 Degree Machine List 13,300 * 13,100 * 12,700 * 11,400 * 11,400 * 11,400 * 11,600 * 10,000	9,200 * 9,000 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 *	Redius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 99.0 110.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 66.2 66.6 63.0 61.4 58.1	30,300 * 29,700 * 29,700 * 29,200 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 18,500 * 17,100 * 15,900 * 14,700 12,400 10,600	18,200 * 17,100 * 16,100 * 14,100 * 12,400 * 11,000 * 9,500 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,500 * 8,400 * 7,400 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 *						
Radius (ft) 32.0 34.0 34.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 110.0 110.0	Boom Angle (deg.) 81.6 81.0 81.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 65.5 55.5	30 O Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 26,200 * 21,800 18,000 16,400 15,000 13,900 12,900 9,400	21,700 * 20,600 * 11,700 * 20,600 * 11,700 * 11,700 * 11,7300 * 11,7300 * 14,100 13,000 12,000 10,400 9,100 9,100 6,800	2 Degree Machine List 13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 10,600 * 10,000 * 8,900 * 7,900 * 5,900 * 5,900 * 5,900 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 7,400 * 5,700 * 4,900 *	Redius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 45.0 65.0 65.0 70.0 75.0 85.0 99.0 99.0 110.0 1120.0 120.0 140.0 150.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 66.2 64.6 63.0 61.4 58.1 54.6 51.1	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 * 14,700 * 15,900 * 14,700 * 12,400 * 10,600 9,200 7,800	18,200 * 17,100 * 16,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 12,400 * 11,700 * 13,300 * 17,700 * 11,	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 * 6,500 * 5,600 * 5,600 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 * 4,500 * 4,500 *						
Radius (h) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0 75.0 90.0 95.0 110.0 1120.0 1130.0 1140.0 150.0	Boom Angle (deg.) 81.6 81.6 80.4 79.8 79.2 78.6 77.4 76.1 74.5 73.0 71.4 69.8 66.5 64.9 63.2 61.5 59.7 56.2 52.5 54.3 39.7	33,000 ** 33,200 ** 33,200 ** 31,700 ** 31,700 ** 31,700 ** 31,700 ** 30,600 ** 30,600 ** 29,600 ** 26,200 ** 24,000 ** 24,000 ** 21,800 19,900 18,000 15,000 13,900 12,900 11,000 9,400 8,200 7,200 6,300	21,700 * 20,600 * 11,700 * 10,200 * 14,100 13,000 12,000 10,400 9,100 6,800 5,900	2 Degree Machine List 13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 10,600 * 10,000 * 8,900 * 7,900 * 5,900 * 5,100 * 5,100 *	9,200 * 9,000 * 8,800 * 8,400 * 8,200 * 7,400 * 6,500 * 4,100 * 4,100 *	Redius (ft) 34.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 77.0 80.0 85.0 99.0 91.0 110.0 120.0 130.0 140.0	Boom Angle (deg.) 81.5 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1 47.2	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 24,900 * 21,500 * 21,500 * 11,7100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 6,500	18,200 * 17,100 * 15,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 7,100 * 7,100 * 7,100 * 5,900 * 5,900 * 5,900 * 11,900 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 5,600 * 4,600 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 * 4,500 * 3,700 * 3,700 *						
Radius (ft) 32.00 34.00 34.00 38.00 40.00 42.00 44.00 45.00 65.00 65.00 70.00 75.00 80.00 99.00 110.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00 1120.00	Boom Angle (deg.) 81.6 81.6 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.9 63.2 61.5 59.7 56.2 52.5 44.3 39.7 34.8	33,800 * 33,800 * 32,700 * 31,100 * 30,600 * 30,100 * 24,000 * 21,800 12,900 11,000 13,900 11,000 9,400 8,200 6,300 5,300	21,700 * 20,600 * 11,300 * 14,100 13,000 12,000 10,400 9,100 7,800 6,800 5,900 5,100 *	2 Degree Machine List 13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 10,600 * 10,000 * 8,900 * 7,900 * 6,800 * 5,900 * 5,100 * 4,000 * 4,000 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 7,400 * 5,700 * 4,900 *	Redius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 45.0 65.0 65.0 70.0 75.0 85.0 99.0 99.0 110.0 1120.0 120.0 140.0 150.0	Boom Angle (deg.) 81.5 80.3 79.7 79.1 78.6 78.0 77.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1 54.6 54.6 54.1 47.2 43.1	30,300 * 29,7000 * 28,700 * 29,200 * 27,700 * 27,700 * 26,800 * 26,800 * 24,900 * 21,500 * 21,500 * 11,7100 * 11,7100 * 11,700 * 11,700 * 12,400 10,600 9,200 6,500 * 5,200 *	18,200 * 17,100 * 14,100 * 11,700 * 11,700 * 11,000 * 9,500 * 8,200 * 1,700 * 4,900 * 4,900 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 * 3,700 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 * 4,500 * 3,700 * 3,700 *						
Radius (h) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0 75.0 90.0 95.0 110.0 1120.0 1130.0 1140.0 150.0	Boom Angle (deg.) 81.6 81.6 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.9 63.2 61.5 59.7 56.2 52.5 44.3 39.7 34.8	33,000 ** 33,200 ** 33,200 ** 31,700 ** 31,700 ** 31,700 ** 31,700 ** 30,600 ** 30,600 ** 29,600 ** 26,200 ** 24,000 ** 24,000 ** 21,800 19,900 18,000 15,000 13,900 12,900 11,000 9,400 8,200 7,200 6,300	21,700 * 20,600 * 11,700 * 10,200 * 14,100 13,000 12,000 10,400 9,100 6,800 5,900	2 Degree Machine List 13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 10,600 * 10,000 * 8,900 * 7,900 * 5,900 * 5,100 * 5,100 *	9,200 * 9,000 * 8,800 * 8,400 * 8,200 * 7,400 * 6,500 * 4,100 * 4,100 *	Redius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 45.0 65.0 65.0 70.0 75.0 85.0 99.0 99.0 110.0 1120.0 120.0 140.0 150.0	Boom Angle (deg.) 81.5 80.3 79.7 79.1 78.6 78.0 77.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1 54.6 54.6 54.1 47.2 43.1	30,300 * 29,7000 * 28,700 * 29,200 * 27,700 * 27,700 * 26,800 * 26,800 * 24,900 * 21,500 * 21,500 * 11,7100 * 11,7100 * 11,700 * 11,700 * 12,400 10,600 9,200 6,500 * 5,200 *	18,200 * 17,100 * 14,100 * 11,700 * 11,700 * 11,000 * 9,500 * 8,200 * 1,700 * 4,900 * 4,900 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 * 3,700 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 * 4,500 * 3,700 * 3,700 *						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 44.0 44.0 55.0 65.0 67.0 75.0 80.0 100.0 110.0 120.0 130.0 140.0 165.0	Boom Angle (deg.) 81.6 81.6 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8 68.2 66.9 63.2 61.5 59.7 56.2 52.5 44.3 39.7 34.8	33,800 * 33,800 * 32,700 * 31,100 * 30,600 * 30,100 * 24,000 * 21,800 12,900 11,000 13,900 11,000 9,400 8,200 6,300 5,300	21,700 * 20,600 * 11,300 * 14,100 13,000 12,000 10,400 9,100 7,800 6,800 5,900 5,100 *	2 Degree Machine List 13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 10,600 * 10,000 * 8,900 * 7,900 * 6,800 * 5,900 * 5,100 * 4,000 * 4,000 *	9,200 * 9,000 * 8,800 * 8,400 * 8,200 * 7,400 * 6,500 * 4,100 * 4,100 *	Redius (ft) 34.0 34.0 34.0 34.0 40.0 44.0 44.0 45.0 65.0 65.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 155.0	Boom Angle (deg.) 81.5 80.3 79.7 79.1 78.6 78.0 77.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1 54.6 54.6 54.1 47.2 43.1	30,300 * 29,7000 * 28,700 * 29,200 * 27,700 * 27,700 * 26,800 * 26,800 * 24,900 * 21,500 * 21,500 * 11,7100 * 11,7100 * 11,700 * 11,700 * 12,400 10,600 9,200 6,500 * 5,200 *	18,200 * 17,100 * 14,100 * 11,700 * 11,700 * 11,000 * 9,500 * 8,200 * 1,700 * 4,900 * 4,900 *	2 Degree Machine List 11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 * 3,700 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 * 4,500 * 3,700 * 3,700 *						



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.

Copyright by KOBELCO CRANES CO., LTD. No part of this catalog may be reproduced in any manner without notice.

KOBELCO CRANES CO., LTD.

Inquiries To:

17-1, Higashigotanda 2-chome, Shinagawa-ku,Tokyo 141-8626 JAPAN Tel: +81-3-5789-2130 Fax: +81-3-5789-3372 URL: http://www.kobelco-cranes.com/

KOBELCO CRANES NORTH AMERICA, INC.

10845 Train Court, Houston, Texas 77041, USA Tel: +1-713-856-5755 Fax: +1-713-856-9072 URL: http://www.kobelcocranesnorthamerica.com/

Bulletin No. CK1100G_SPEC_US3

3142013 Printed in USA