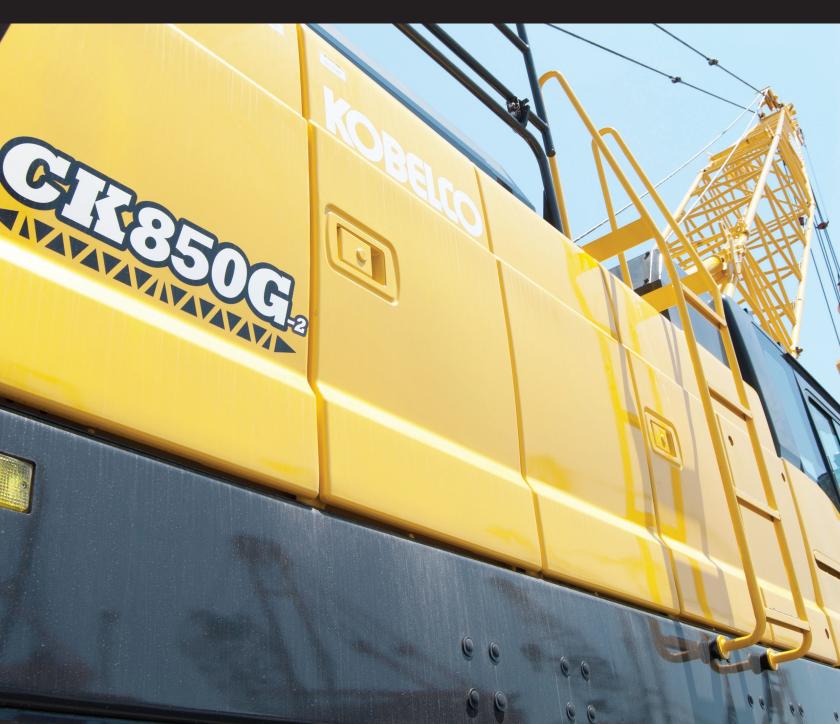
KOBELCO

Hydraulic Crawler Crane



Max. Lifting Capacity : 85 US Tons Max. Crane Boom Length : 200 ft Max. Fixed Jib Combination : 180 ft + 60 ft



CK850G-2 CONTENTS

2 SPECIFICATIONS
G -MODE
8 WINCH PERFORMANCE
9 GENERAL DIMENSIONS
10 DIMENSIONS & WEIGHT
13 TRANSPORTATION PLAN
14 SELF ASSEMBLY PROCEDURE
15 COUNTERWEIGHT SELF-REMOVAL DEVICE
16 BOOM & JIB ARRANGEMENTS
17 WORKING RANGES
20 SUPPLEMENTAL DATA
21 LIFTING CAPACITY
29 CLAMSHELL DATA
31 BARGE DATA

General Description



Type *Maximum lift capacity* Basic boom length Maximum boom length Basic boom & jib length Maximum boom & jib length Working weight Ground bearing pressure Gradeability

Crawler mounted, Lattice boom, Hydraulic controlled 170,000 lbs (77,110 kg) @ 11' operating radius (40' boom) 40' (12.2 m) 200' (61.0 m) 80' + 30' (24.4 m + 9.1 m) 180' + 60' (54.9 m + 18.3 m) Approx. 165,700 lbs (75,160 kg) Approx. 10.8 psi (74.2 kPa) 40%

Calculations to determine working weight, ground bearing pressure, and gradeability include the weight of the upper and lower works of the crane, counterweights, and carbody weights, 40' boom.

General Dimensions

Height to top of gantry (lowered)	10'10" (3.31 m)
Width of upper machine w/operator's cab	9'10" (2.99 m)*
Radius of rear end (counterweights)	14'9" (4.50 m)
Counterweight ground clearance	3'7" (1.10 m)
Center of rotation to boom foot pin	3'7" (1.10 m)
Height from ground to boom foot pin	5'9" (1.75 m)
Height over gantry (raised)	20'3" (6.17 m)
Overall length of crawlers	20'7" (6.28 m)
Overall width of crawlers	17'2" (5.24 m)
Center to center, idler to sprocket	17'10" (5.44 m)
Shoe width	36" (0.91 m)
Ground clearance of body	15" (0.39 m)

Upper Machinery

Power Plant:		
Diesel engine - mak	e and model	
	Hino J08E-VV	
	(complies with Tier 4 Final)	
No. of cylinders	6	
Bore X stroke	4-13/32" x 5-1/8"	
	(112 mm x 130 mm)	
Cycles	4	
Total displacement	469 cu.in. (7.684 <i>l</i>)	
Rated output SAE G	ROSS	
	286 HP / 2,100 rpm (213 kW / 2,100 min ⁻¹)	
Maximum torque		
	750 lbs-ft / 1,600 rpm (1,017 Nm / 1,600 min ⁻¹)	
Starter	24 Volts / 5.0 kW	
Alternator	24 Volts / 90 Amp	
Batteries	Two 12 volt, 136 AH/5 HR capacity series connected.	
Radiator	Corrugated type core, thermostatically controlled, wit	h cleanout screen.
Throttle	Twist grip type hand throttle, electrically controlled, in	n conjunction with floor mounted pedal.
Air cleaner	Dry type with replaceable paper element.	
Fuel tank capacity	106 US gal. (400 liters)	
Lube oil filters	Full flow and by-pass type with element type.	
Fuel filter	Replaceable element.	* - 10'5" wide with Catwalks

Working Speed

Hoist line speed (front and rear drums)
390 ~ 10 ft/min (120 ~ 3 m/min)
Lowering line speed (front and rear drums)
390 ~ 10 ft/min (120 ~ 3 m/min)
Boom hoist line speed (front and rear drums)
230 ~ 6.6 ft/min (70 ~ 2 m/min)
Boom lowering line speed (front and rear drums)
230 ~ 6.6 ft/min (70 ~ 2 m/min)
Swing speed (max.) 4.0 rpm
<i>Travel speed (high/low)</i> 1.1/0.72 mph (1.7/1.1 km/h)

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





Self Lifting Device - Standard Equipment

Counterweight and Carbody weight

0	2 0
Counterweight Base	1 x 20,550 (9,320 kg)
Counterweight (R)	2 x 9,260 (4,200 kg)
Counterweight (L)	2 x 9,260 (4,200 kg)
Total Counterweight	57,590 (26,120 kg)

Carbody weight 2 x 7,170 (3,250 kg) Total Carbody weight 14,340 (6,500 kg)



Hydraulic system Maximum pressure rating 4,626 psi (31.9MPa) Cooling Oil to air heat exchanger Filtration Full flow filters with replaceable paper elements Reservoir capacity 100.3 US gal. (380 liters) Hydraulic pumps: Load hoist, boom hoist, and propel

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

Swing

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

Control system and auxiliary

2 Gear pumps, max flow rate 16.1 US gal/min + 10.6 US gal (61.0 *l*/min + 40.1 *l*/min)

Brake cooling system

2 gear pumps, max flow rate 19.3 US gal/min x 2 (73.0 *l*/min x 2)

Gantry

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

Operators cab

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

Controls

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

Swing:

Swing unit

Hydraulic motor driving spur gears through planetary reducers to output swing pinion for 360 degree rotation.

Swing brake

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

Swing circle

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

Swing lock Manual, 4 position lock for transportation.



Line pull:

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

Lower Machinery

Crawlers:

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

Crawler drive:

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

Crawler brakes:

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

Steering mechanism:

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

Crawler shoe: 66 shoes - 36" wide, each crawler.

Track rollers:

The track rollers are sealed for maintenance free operation.

Front drum:

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

Negative brake

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

Drum lock External ratchet for locking drum

Drums:

Front drum -

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

Rear drum -

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

3rd drum (optional) -

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



Crane Attachments

Boom:

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

Maximum boom length	
Basic boom length	
Boom base section	
Boom tip section	

200' (61.0 m) 40' (12.2 m) 19'7" (5.97 m) 22'8" (6.91 m)

Boom insert (optional):

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

Boom insert

10' (3.1 m), 20' (6.1 m), 40' (12.2 m)

Jib (optional):

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

Maximum jib length	60' (18.3 m)
Basic jib length	30' (9.1 m)
Jib base section	15'9" (4.8 m)
Jib tip section	16'1" (4.9 m)
Jib insert	10' (3.1 m), 20' (6.1 m)

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

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



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

> Safety Service (cont) Level indicator Boom hoist drum lock Swing locks, anti drift, and mechanical Boom backstops Boom base catwalk Upper machinery catwalk, handrails and ladder

Tools and Accessories

A set of tools and accessories are furnished.

Optional Equipment

Third drum Hook block Hook ball Auxiliary sheave Fixed jib Boom inserts

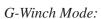
G-Mode

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

Auto Idling Stop Mode (AIS):

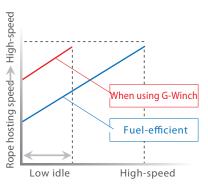
An Industry First The AIS mode can conserve fuel by stopping the engine, with an operator prompt, after 10 seconds of idling time. Restarting the engine is simple by just twisting the throttle.





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 1,725 RPM and controls the pumps to make engine operation in the most efficient condition.





Exhaust cleaning DPR:

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

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

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

This system requires the use of low sulfur diesel.

* Warning: High sulfur diesel will damage the engine.

Load Moment Indicator (LMI)

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

4 1

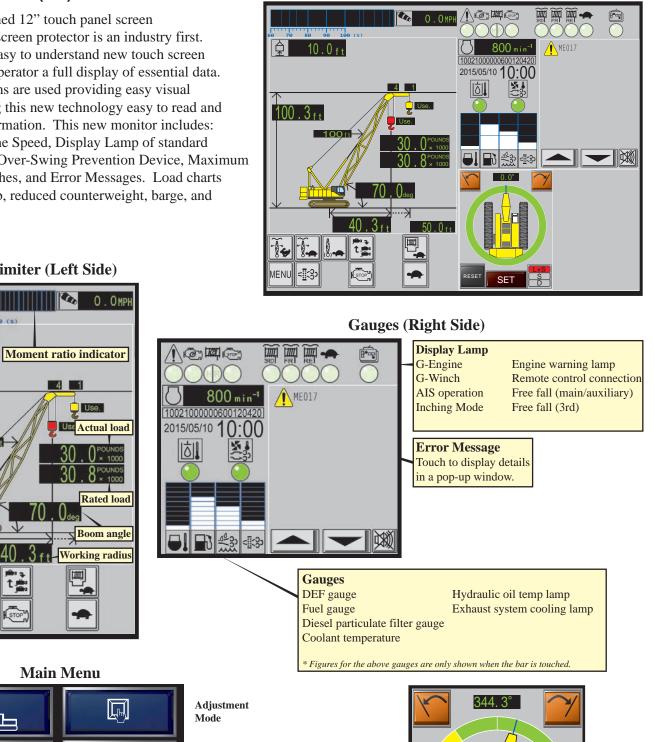
Use.

8

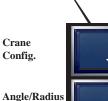
Ш

Main Menu

¢ 100



Moment Limiter (Left Side)



A

CHEC

MENL

100

Swing mode

10.0ft

100 ft

Hook height

3.

Point height

Limiter

Self Check Mode

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

Service

Mode



Winch Performance Data

Note:

Line speed and line pull based on Hino J08E-VV at 2,100 rpm.

Line speed and line pull based on single line.

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

Front & Rear Drum

Wire Rope Diameter = 22 mm Rated Line Pull = 17,000 lbf (78.5 kN) Maximum Line Pull = 34,400 lbf (153 kN) Total Storage Capacity = 1,099 ft (334.9 m)

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

Third Drum (for Load hoist)

Wire Rope Diameter = 22 mm Rated Line Pull = 17,000 lbf (78.5 kN) Maximum Line Pull = 32,400 lbf (144 kN) Total Storage Capacity = 1,099 ft (334.9 m)

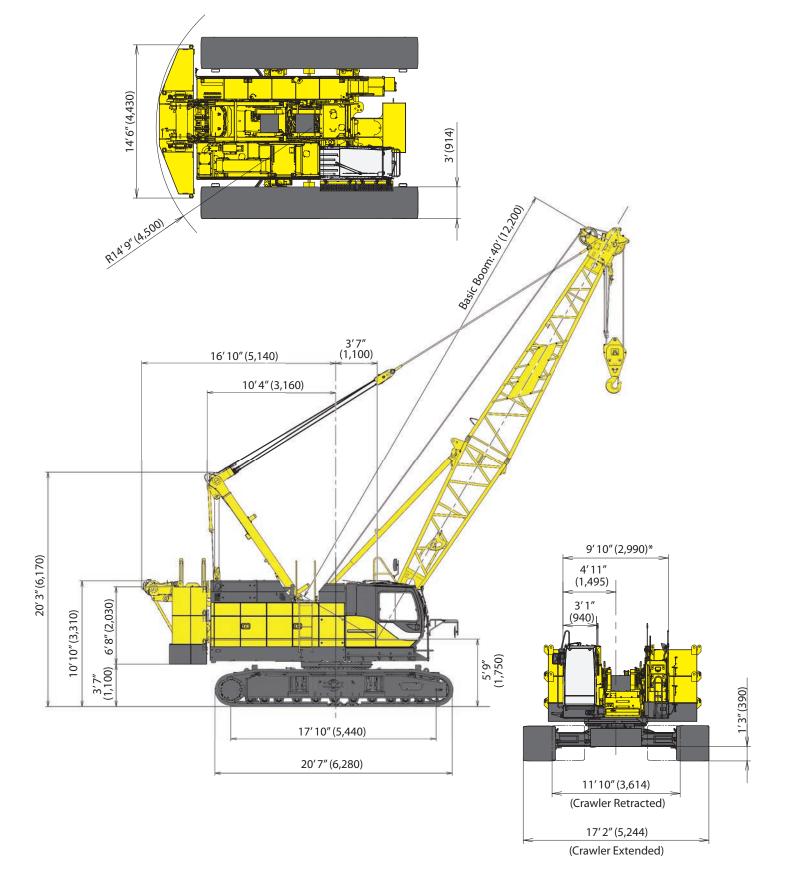
	je enpairi	.,					
			Line spee	d (ft/min)			
	Layer	1	2	3	4	5	6
	0	394	394	394	394	394	
	5,000	394	394	394	394	394	
Line Pull	10,000	227	227	227	227	227	
(lbs)	15,000	147	152	161	170	179	storage
	17,000	142	151	160	169	178	only
	20,000	140	149	158	167	176	
	25,000	138	147	155	163	164	
	30,000	136	135				
Storage Ca	pacity (ft)	130	139	148	157	166	175

Wire Rope Specifications

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	869' (265 m)	3.5: 1	81,606 lbf (363 kN)
Rear drum	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	672' (205 m)	3.5: 1	81,606 lbf (363 kN)
Boom drum	6 x 31 P-Warrington seal Right hand lay, Regular lay	0.646" to 0.658" (16.40 mm to 16.72 mm)	492' (150 m)	3.5: 1	47,210 lbf (210 kN)
Third drum (Optional)	6 x 29 Filler IWRC Right hand lay, Regular lay	0.888" to 0.905" (22.55 mm to 22.99 mm)	476' (145 m)	3.5: 1	81,606 lbf (363 kN)



General Dimensions



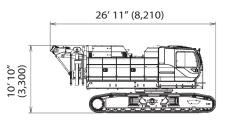
Dimensions and Weight

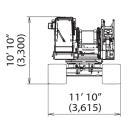
Dimensions: ft-in (mm) Weight: lbs (kg)

Base Machine - 1 Weight: 92,200 lbs (41,810 kg) Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

Base Machine - 2

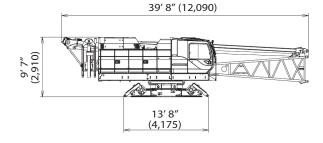
Weight: 88,000 lbs (39,895 kg) Gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

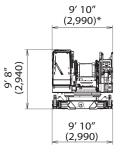




Base Machine - 3 Weight: 61,600 lbs (27,940 kg)

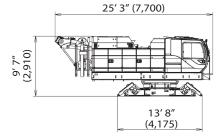
Boom base, gantry, self removal unit, and wire ropes (front, rear, and boom hoist)

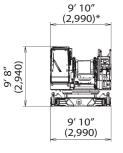




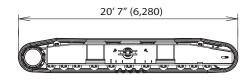
Base Machine - 4

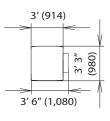
Weight: 57,400 lbs (26,030 kg) Gantry, self removal unit, and wire ropes (front, rear, and boom hoist)



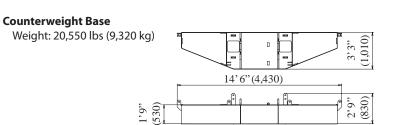


Crawler Weight: 16,700 lbs (7,550 kg)



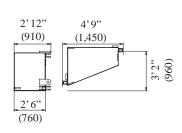


Dimensions and Weight



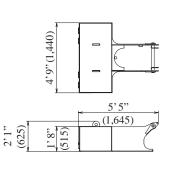
Counterweight (R)

Weight: 9,260 lbs (4,200 kg)



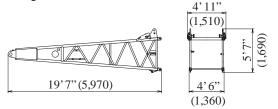
Carbody Weight

Weight: 7,170 lbs (3,250 kg)



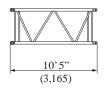
Boom Base

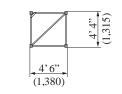
Weight: 2,500 lbs (1,120 kg)



10 ft (3.0 m) Insert Boom

Weight: 610 lbs (275 kg)

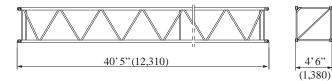




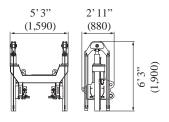
4'4" (1,315)

40 ft (12.2 m) Insert Boom

Weight: 1,900 lbs (870 kg)

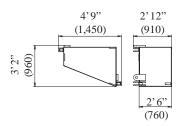


Self Removal Unit Weight: 1,900 lbs (860 kg)

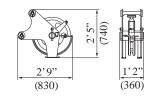


Dimensions: ft-in (mm) Weight: lbs (kg)

Counterweight (L) Weight: 9,260 lbs (4,200 kg)

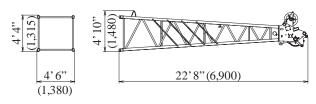


Auxiliary Sheave Weight: 320 lbs (145 kg)

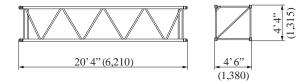


Boom Tip

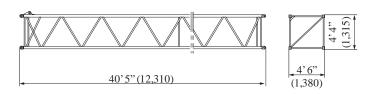
Weight: 2,300 lbs (1,025 kg)



20 ft (6.1 m) Insert Boom Weight: 1,100 lbs (475 kg)



40 ft (12.2 m) Insert Boom (with lug) Weight: 2,000 lbs (885 kg)

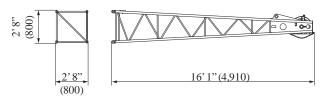


Dimensions and Weight

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

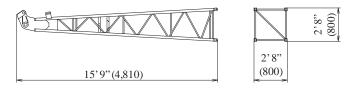
Jib Tip

Weight: 490 lbs (220 kg)



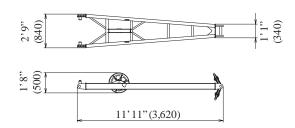
Jib Base

Weight: 440 lbs (200 kg)



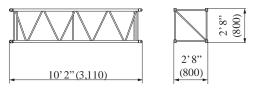
Jib Strut

Weight: 460 lbs (210 kg)



10 ft (3.0 m) Jib Insert

Weight: 210 lbs (95 kg)





20' 3"(6,160)

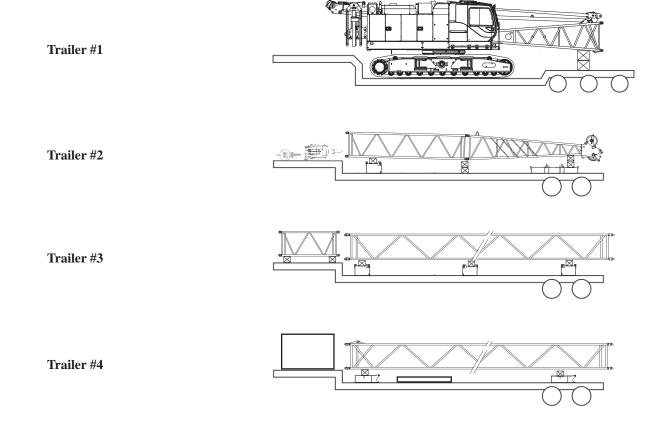
Transportation Plan

Refer to pages 10-12

Departmention of Itom	Wei	ight	Trailer Loads			
Description of Item	lbs	(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	92,200	(41,810)	1			
Counterweight Base	20,550	(9,320)		1		
Counterweight (L)	9,260	(4,200)			2	
Counterweight ('R)	9,260	(4,200)		1	1	
Carbody Weight	7,170	(3,250)				2
10 ft Insert Boom	610	(275)			1	
20 ft Insert Boom	1,100	(475)		1		
40 ft Insert Boom	1,900	(870)			1	
40 ft Insert Boom (w/ Lug)	2,000	(885)				1
Boom Tip	2,300	(1,025)		1		
Jib Base	440	(200)				
10 ft Insert Jib	210	(95)				
20 ft Insert Jib	390	(175)				
Jib Tip	490	(220)				
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
		lbs	92,200	37,010	30,290	21,430
Approx. Total Shippi	ng weight	(kg)	(41,810)	(16,746)	(13,745)	(9,694)

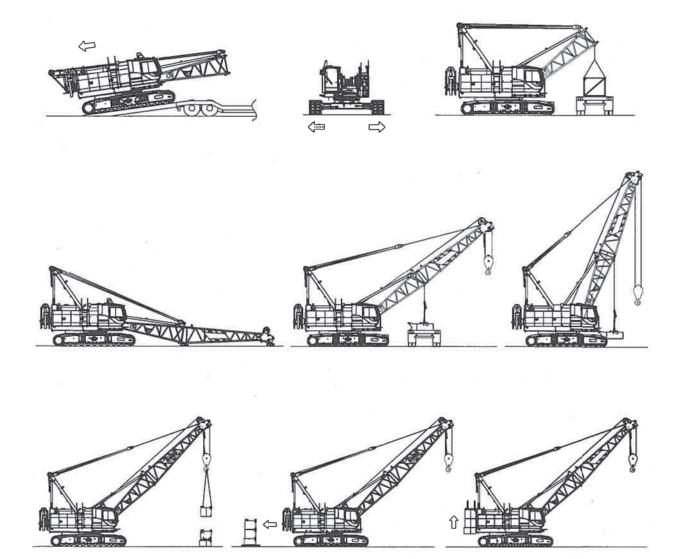
* Third drum is not included. Add 4,200 lbs if third drum is installed.

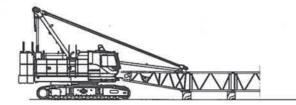
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck. This may vary depending on truck/trailer weight, style of trailer and state law.

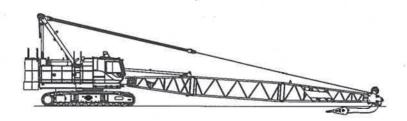




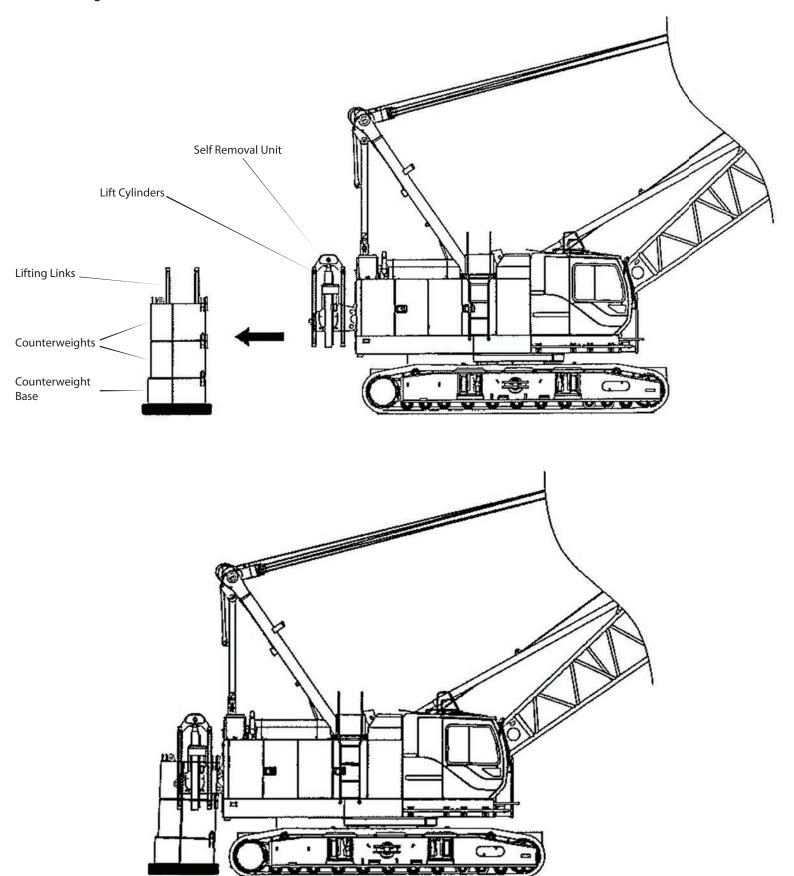
Self-Assembly Procedure







Counterweight Self-Removal Device



Boom and Fixed Jib Arrangement

Boom length ft (m)	Boom arrangement
40 (12.2)	<u>e</u> fr
50 (15.2)	
60 (18.3)	
70 (21.3)	* <u>B10 20 T</u>
80 (24.4)	B 10 10 20 T B 40A T T T B 20 20 T T
90 (27.4)	
100 (30.5)	B 10 10 20 T B 10 10 40A T 10
110 (33.5)	* CB 10 20 40A T
120 (36.6)	** • </th
130 (39.6)	Image: Weight of the second
140 (42.7)	Image: Weight of the second

Fixed Jib	Arrangement
-----------	-------------

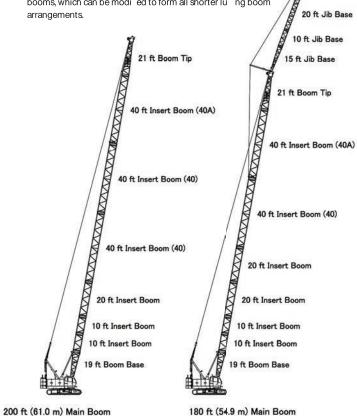
Fixed Jb	Crane boom length	Jb length ft (m)	Jib arrangement
		30 (9.1)	BIT
	80 ft (24.4 m)	40 (12.2)	<u>B 10 T</u>
Boom_	(180 ft (54.9 m)	50 (15.2)	B 20 T
H.		60 (18.3)	B 20 10
-			

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

Boom length ft (m)	Boom arrangement
150 (45.7)	X El 10 20 40 40A T
160 (48.8)	Image: Weight of the second
170 (51.8)	X B 10 20 20 40 40A T B 10 40 40A T T
180 (54.9)	Image: Weight of the second
190 (57.9)	₩ <b 10 _20 40 40< td=""></b 10 _20 40 40<>
200 (61.0)	₩ <u>B 10 10 20 40 40 </u> 40 <u>T</u> >>>

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

mark shows the guy line installing position when the xed jib is used.
 indicates the most exible combination of insert lu ng booms, which can be modi ed to form all shorter lu ng boom arrangements.
 20 ft Jib Base

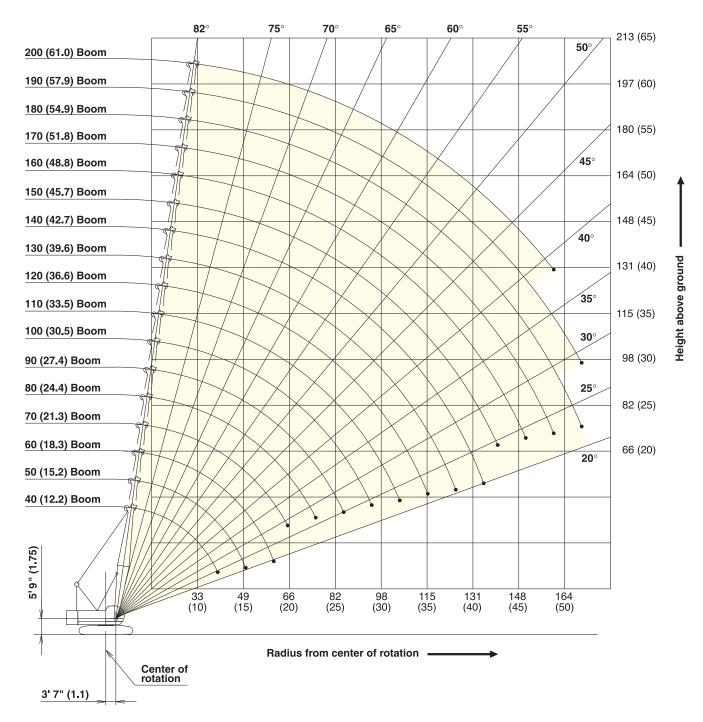


180 ft (54.9 m) Main Boom and 60 ft (18.3 m) Fixed Jib

Working Ranges

Main Boom

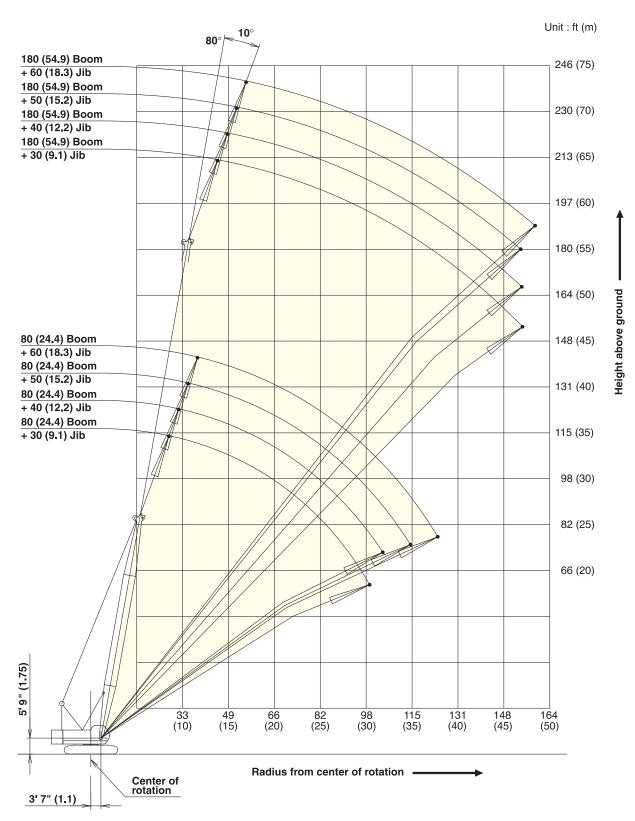
Unit : ft (m)



Working Ranges

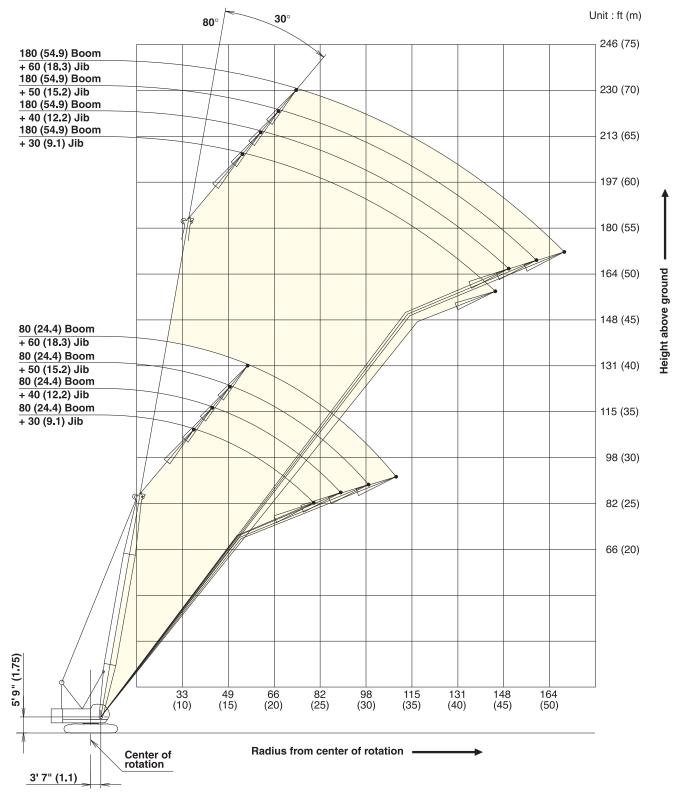
Fixed Jib 10°

Unit : ft (m)



Working Ranges

Fixed Jib 30°



Supplemental Data

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - The crane must be leveled to within 1% on a firm supporting surface.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - Counterweights and carbody weights are fully installed.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- 7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	320	2,400	3,200	4,200	5,200

- 8. When auxiliary sheave is used for 9 or 10 reeving parts of line, it is not required to deduct 320 lbs from rated load.
- 9. The total load that can be lifted by jib is limited by rated jib loads.
- 10. Boom lengths for jib mounting are 80 ft (24.4 m) to 180 ft (54.9 m)
- 11. The total load that can be lifted by the auxiliary sheave is the value for 320 lbs deducted from rated

load for the boom (without auxiliary sheave installed); however, the auxiliary sheave rated load should not exceed 17,000 lbs.

- 12. Boom lengths that can attach auxiliary sheave are from 40 ft (12.2 m) to 190 ft (57.9 m).
- 13. The boom should be erected over the front of the crawlers, not laterally. When erecting from or lowering to the ground the boom at length of 180 ft (54.9 m) with jib, the blocks for erections must be placed at the end of the crawlers.
- 14. Least stable position is over the side.
- 15. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1	2	4	5
Maximum Loads (lbs)	17,000	34,000	68,000	85,000

No. of Parts of line	6	7	8	9*	10*
Maximum Loads (lbs)	102,000	119,000	136,000	153,000	170,000
* 11					

* - Use auxiliary sheave

Maximum Load for Fixed Jib

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

Maximum Load Auxiliary Sheave

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

16. Weight of recommended hook block.

Hook Block	85USt	55USt	35USt	21USt	Ball Hook
Weight (lbs)	1,765	1,545	1,105	885	355

WARNING:

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

- 17. Lifting capacities listed apply only to the machine as originally manufactured and designed by KOBELCO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- 18. Designed and rated to comply with ANSI Code B30.5. 5-2014

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

Carbody Weight: 14,340

Full Counterweight: 57,590 lbs

Main Boom Lift Capacity

Δ()' Boo	m	50)' Boo	m	60)' Boo	m	70)' Boo	m	80	D' Boo	m
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)
10.0	81.7	170,000 *	12.0	81.1	166,400 *	13.0	81.6	154,200 *	14.0	82.0	143,600 *	16.0	81.6	126,300 *
11.0 12.0	80.3 78.8	170,000 * 166,600 *	13.0 14.0	79.9 78.8	154,400 * 144,000 *	14.0 15.0	80.7 79.7	143,800 * 134,700 *	15.0	81.2 80.3	134,500 * 126,500 *	17.0	80.8 80.1	119,100 * 112,600 *
13.0	77.4	154,600 *	15.0	77.6	134,900 *	16.0	78.7	126,700 *	17.0	79.5	119,300 *	19.0	79.4	105,290
14.0	75.9	144,200 *	16.0	76.4	126,900 *	17.0	77.7	119,500 *	18.0	78.7	112,800 *	20.0	78.6	96,930
15.0	74.4	135,100 *	17.0	75.2	119,700 *	18.0	76.8	113,000 *	19.0	77.8	105,400	22.0	77.2	83,550
16.0	72.9	127,100 *	18.0	74.0	113,200 *	19.0	75.8	105,460	20.0	77.0	97,060	24.0	75.7	73,320
17.0	71.4	119,900 * 113 <i>,</i> 400 *	19.0	72.8	105,660	20.0	74.8	97,130	22.0	75.3	83,700	26.0	74.2	65,230
18.0 19.0	69.9 68.3	105,820	20.0	71.6	97,350 84,010	22.0	72.8 70.8	83,790 73,560	24.0	73.6 71.9	73,470 65,380	28.0	72.7 71.2	58,680 53,260
20.0	66.7	97,500	24.0	66.7	73,810	24.0	68.7	65,490	28.0	70.1	58,840	32.0	69.7	48,690
22.0	63.6	84,190	26.0	64.2	65,760	28.0	66.6	58,970	30.0	68.4	53,430	34.0	68.1	44,840
24.0	60.3	74,000	28.0	61.6	59,230	30.0	64.5	53,570	32.0	66.6	48,890	36.0	66.6	41,490
26.0	56.9	65,980	30.0	58.9	53,850	32.0	62.4	49,030	34.0	64.8	45,030	38.0	65.0	38,580
28.0	53.4	59,480	32.0	56.2	49,310	34.0	60.2	45,170	36.0	63.0	41,680	40.0	63.4	36,020
30.0 32.0	49.7 45.7	54,100 49,580	34.0 36.0	53.3 50.4	45,480 42,150	36.0 38.0	58.0 55.7	41,840 38,950	38.0	61.1 59.2	38,800 36,240	45.0	59.3 55.0	30,820 26,820
34.0	41.5	49,380	38.0	47.3	39,280	40.0	53.3	36,410	45.0	59.2	30,240	55.0	50.5	23,670
36.0	36.9	42,460	40.0	44.1	36,750	45.0	47.0	31,230	50.0	49.0	27,070	60.0	45.6	21,140
38.0	31.6	39,590	45.0	34.9	31,590	50.0	40.0	27,290	55.0	43.3	23,960	65.0	40.3	19,060
40.0	25.5	34,830 *	50.0	22.7	26,890 *	55.0	31.7	24,200	60.0	36.9	21,450	70.0	34.4	17,350
						60.0	20.6	21,600 *	65.0	29.3	19,420	75.0	27.3	15,890
Ree	eves	10	Ree	eves	10	Ree	eves	10	Ree	eves	9	Ree	eves	8
9()' Boo	m	10	0' Boo	om	11	0' Boo	om	12	0' Boc	om	13	0' Boo	om 📃
Load	Boom	360 [°]	Load	Boom	360°	Load	Boom	360°	Load	Boom	360 [°]	Load	Boom	360°
Load Radius	Boom Angle	360 [°] Rated Load	Load Radius	Boom Angle	360 [°] Rated Load	Load Radius	Boom Angle	360 [°] Rated Load	Load Radius	Boom Angle	360 [°] Rated Load	Load Radius	Boom Angle	360 [°] Rated Load
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
Load Radius (ft) 17.0	Boom Angle (deg.) 81.9	360° Rated Load (lbs) 118,820 *	Load Radius (ft) 19.0	Boom Angle (deg.) 81.5	360° Rated Load (lbs) 101,850 *	Load Radius (ft) 20.0	Boom Angle (deg.) 81.8	360° Rated Load (lbs) 92,590 *	Load Radius (ft) 22.0	Boom Angle (deg.) 81.5	360° Rated Load (lbs) 80,680 *	Load Radius (ft) 24.0	Boom Angle (deg.) 81.3	360° Rated Load (lbs) 71,200 *
Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.2	360 [°] Rated Load (Ibs) 118,820 * 112,400 *	Load Radius (ft) 19.0 20.0	Boom Angle (deg.) 81.5 80.9	360° Rated Load (Ibs) 101,850 * 96,800	Load Radius (ft) 20.0 22.0	Boom Angle (deg.) 81.8 80.7	360° Rated Load (Ibs) 92,590 * 83,260	Load Radius (ft) 22.0 24.0	Boom Angle (deg.) 81.5 80.5	360° Rated Load (Ibs) 80,680 * 72,950	Load Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.3 80.4	360° Rated Load (Ibs) 71,200 * 64,610
Load Radius (ft) 17.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870	Load Radius (ft) 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120	Load Radius (ft) 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900	Load Radius (ft) 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240	Load Radius (ft) 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 78.6 77.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	360° Rated Load (Ibs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 78.6 77.6 76.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8	360° Rated Load (Ibs) 71,200 * 64,610 58,020 52,570 48,010 44,110
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 75.6 74.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 74.0	360° Rated Load (Ibs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.5 79.6 77.6 76.6 75.6 74.7 73.7 72.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 74.0 71.7	360° Rated Load (Ibs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 34.0 36.0 38.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 58,440 58,440 58,420 48,450 44,550 41,200 38,290	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 34.0 38.0 40.0 45.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 76.6 76.6 75.6 74.7 73.7 72.7 70.1	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.5 80.5 79.6 77.6 76.6 75.6 74.7 73.7 72.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 74.0 71.7	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 44,550 41,200 38,290 35,730 30,480 26,470	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 38,050 35,470 30,220 26,210 23,010 20,450	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1	360° Rated Load (Ibs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660	Load Radius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 35.0 55.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320	Load Radius (ft) 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6	360° Rated Load (Ibs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490	Load Radius (ft) 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530	Load Radius (ft) 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 55.0 65.0 70.0 75.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0	360° Rated Load (Ibs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960	Load Radius (ft) 19.0 20.0 24.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210	Load Radius (ft) 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 55.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8	360° Rated Load (lbs) 80,680 * 72,950 64,810 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 65.0 65.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 65.6 51.6 47.4	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870	Load Radius (ft) 19.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.5 80.9 79.8 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360	Load Radius (ft) 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 55.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 53.2 49.9 46.4	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910	Load Radius (ft) 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330
Load 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 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 55.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080	Load Radius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 65.0 65.0 65.0 80.0 85.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 62.5 59.5 55.4 53.2 49.9 46.4 42.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.5 79.6 77.6 77.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3	360° Rated Load (lbs) 80,680 * 72,950 64,810 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9 37.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630	Load Radius (ft) 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 55.0 65.0 65.0 80.0 85.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 54.8 84.8 44.8 40.6 35.9	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980	Load Radius (ft) 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 62.5 59.5 55.4 53.2 49.9 46.4 42.6 38.6	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670
Load 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 45.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 55.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 48.8 44.8 40.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 80.0 80.0 90.0 95.0 100.0 105.0 100.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4 39.0 35.4	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 51.6 51.6 51.6 51.7 47.4 42.9 37.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 90.0 90.0 100.0 105.0 110.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3 40.7 36.9 32.7 27.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280 8,680	Load Radius (ft) 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 115.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 45.6 45.6 45.6 43.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840
Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 51.6 51.6 51.6 51.2 937.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3 40.7 36.9 32.7	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280	Load Radius (ft) 24.0 28.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 112.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 45.6 42.4 39.0 35.4 31.3 26.7	360° Rated Load (Ibs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840 7,360
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 51.6 51.6 51.6 51.2 937.9 32.3	360° Rated Load (lbs) 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100 15,630 14,370	Load Radius (ft) 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.5 80.9 79.8 78.6 77.4 76.3 75.1 73.9 72.7 71.5 70.3 69.0 65.9 62.7 59.5 56.1 52.5 56.1 52.5 48.8 44.8 40.6 35.9 30.6	360° Rated Load (lbs) 101,850 * 96,800 83,400 73,120 65,010 58,440 53,020 48,450 44,550 41,200 38,290 35,730 30,480 26,470 23,320 20,740 18,620 16,860 15,360 14,080 12,980 12,010	Load Radius (ft) 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Boom Angle (deg.) 81.8 80.7 79.7 78.6 77.5 76.5 75.4 74.3 73.2 72.1 71.0 68.2 65.4 62.5 59.5 56.4 62.5 59.5 56.4 53.2 49.9 46.4 42.6 38.6 34.2 29.2	360° Rated Load (lbs) 92,590 * 83,260 73,010 64,900 58,330 52,880 48,320 44,440 41,090 38,160 35,600 30,350 26,340 23,170 20,610 18,490 16,710 15,210 13,910 12,800 11,830 10,970 10,250	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 90.0 90.0 100.0 105.0	Boom Angle (deg.) 81.5 80.5 79.6 78.6 77.6 76.6 75.6 74.7 73.7 72.7 70.1 67.6 65.0 62.3 59.5 56.7 53.8 50.8 47.6 44.3 40.7 36.9 32.7 27.9	360° Rated Load (lbs) 80,680 * 72,950 64,810 58,240 52,800 48,230 44,330 40,980 38,050 35,470 30,220 26,210 23,010 20,450 18,320 16,530 15,010 13,710 12,580 11,590 10,730 9,960 9,280 8,680	Load Radius (ft) 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 45.6 45.6 45.6 43.3	360° Rated Load (lbs) 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990 8,390 7,840

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 19.

Main Boom Lift Capacity

140' Boom

Boom

Angle

(deg.)

81.9

81.1 80.2 79.4

78.6 77.7

76.9 76.0 75.2 73.1 70.9

68.7

66.5

64.3 62.0 59.6 57.2 54.7

52.2 49.5

46.8 43.9

40.8

360[°]

(lbs)

61,720 *

60,840 * 57,980 52,530

47,950

44,040

40,670

37,740 35,160 29,910

25,880

22,680

20,100

17,960 16,150 14,630 13,310 12,160

11,170

10,290 9,500 8,790 8,170

Load

Radius

(ft)

24.0

26.0 28.0

30.0

32.0

34.0

36.0

38.0 40.0

45.0

50.0

55.0

60.0

65.0

70.0

80.0

85.0

90.0

95.0

100.0 105.0

110.0

Full Counterweight: 57,590 lbs Carbody Weight: 14,340 150' Boom 160' Boom 170' Boom 180' Boom Boom 360° Boom 360 Load Load Load Boom 360 Load Boom 360 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) 44,090 * 38,800 * 26.0 81.7 52,680 * 28.0 81.5 28.0 82.0 30.0 81.8 33,730 * 51,800 * 51,140 * 47,810 43,430 * 42,760 * 42,100 * 33,060 * 32,620 * 38,130 * 37,470 * 28.0 30.0 32.0 80.7 81.3 80.6 79.9 80.9 30.0 30.0 32.0 34.0 81.1 32.0 34.0 80.1 79.3 32.0 34.0 80.0 79.3 80.5 37,030 * 79.8 31,960 * 36.0 79.3 78.6 77.8 77.0 76.2 74.2 72.2 79.5 78.6 77.8 77.1 75.2 73.4 71.5 40,520 37,560 36,370 * 35,710 * 79.2 78.5 34.0 43,890 36.0 79.2 31,520 * 36.0 38.0 78.6 77.9 31,080 * 36.0 40,540 38.0 38.0 40.0 34,980 29,710 25,680 22,480 19,880 34,780 29,510 25,460 22,260 76.9 75.3 73.6 72.0 70.3 29,250 25,220 22,000 38.0 37,610 40.0 40.0 45.0 35,030 29,760 25,720 22,530 76.1 74.4 72.6 70.9 50.0 55.0 60.0 40.0 45.0 45.0 50.0 55.0 50.0 55.0 45.0 50.0 19,400 65.0 70.0 75.0 55.0 70.2 69.6 19,660 17,260 60.0 60.0 19,880 17,720 15,930 14,390 13,070 11,920 17,520 15,710 65.0 70.0 75.0 80.0 60.0 68.2 19,950 67.7 69.1 68.6 15,450 65.0 65.0 66.1 17,810 70.0 65.7 67.2 66.8 13,910 65.4 63.5 61.6 59.7 12,560 11,410 10,400 63.7 61.7 59.7 75.0 80.0 70.0 64.0 16,000 14,170 80.0 65.1 14,480 13,160 12,010 75.0 80.0 61.8 59.6 57.4 55.1 12,850 11,680 63.3 61.5 59.7 85.0 90.0 85.0 85.0 85.0 90.0 57.6 10,910 90.0 95.0 10,670 9,500 90.0 11,000 95.0 55.4 10,000 95.0 57.7 9,780 100.0 57.8 8,700 52.7 50.3 47.7 45.1 55.7 53.6 51.5 49.3 53.2 50.9 9,210 8,500 55.9 54.0 95.0 10,110 100.0 100.0 8,990 105.0 8,000 9,320 8,640 8,000 7,420 7,340 6,760 6,230 5,700 100.0 105.0 105.0 8,260 110.0 7,870 7,290 6,760 48.6 7,620 7,050 6,520 110.0 115.0 120.0 52.0 49.9 105.0 110.0 46.1 110.0 115.0 42.3 47.0 125.0 47.8 115.0 120.0 43.6 120.0 45.6 120.0 39.4 6,920 125.0 40.9 125.0 44.7 6,040 5,220

110.0 115.0 120.0 125.0 130.0 135.0	40.8 37.5 34.0 30.1 25.7 20.5	8,170 7,620 7,120 6,650 6,260 5,900	115.0 120.0 125.0 130.0 135.0 140.0	42.3 39.4 36.2 32.8 29.1 24.8	7,420 6,920 6,450 6,040 5,660 5,330	120.0 125.0 130.0 135.0 140.0 145.0 150.0	43.6 40.9 38.1 35.0 31.8 28.1 24.0	6,780 6,280 5,860 5,440 5,070 4,710 4,380	120.0 125.0 130.0 135.0 140.0 145.0 150.0 155.0 160.0	47.0 44.7 42.2 39.6 36.9 34.0 30.8 27.3 23.3	6,520 6,040 5,570 5,150 4,760 4,380 4,050 3,760 3,500	125.0 130.0 135.0 140.0 145.0 150.0 155.0 160.0 165.0 170.0	47.8 45.6 43.3 40.9 38.4 35.8 33.0 29.9 26.5 22.6	5,700 5,220 4,780 4,380 4,030 3,680 3,370 3,100 2,840 2,620
Ree	ves	4	Ree	eves	4	Ree	ves	4	Ree	eves	4	Ree	eves	2
19	0' Boc	om	20	0' Boo	om									
Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)									
$\begin{array}{c} 32.0\\ 34.0\\ 36.0\\ 38.0\\ 40.0\\ 45.0\\ 50.0\\ 55.0\\ 60.0\\ 65.0\\ 70.0\\ 75.0\\ 80.0\\ 85.0\\ 90.0\\ 95.0\\ 100.0\\ 105.0\\ 100.0\\ 105.0\\ 110.0\\ 125.0\\ 130.0\\ 125.0\\ 135.0\\ 140.0\\ 145.0\\ 155.0\\ 165.0\\ 165.0\\ 165.0\\ 170.0\\ 100.0\\ 170.0\\ 100.$	$\begin{array}{c} 81.6\\ 81.0\\ 80.4\\ 79.8\\ 79.2\\ 77.6\\ 76.1\\ 74.5\\ 72.9\\ 71.3\\ 69.7\\ 68.5\\ 63.2\\ 61.4\\ 59.7\\ 57.9\\ 56.3\\ 46.5\\ 48.5\\ 46.4\\ 44.3\\ 42.1\\ 39.8\\ 44.3\\ 42.1\\ 39.8\\ 37.4\\ 34.8\\ 32.0\\ 29.1\\ \end{array}$	29,540 * 28,880 * 28,430 * 27,950 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,400 4,010 3,680 3,350 3,040 2,770 2,510	34.0 36.0 38.0 45.0 55.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 125.0 130.0 145.0 145.0 145.0 145.0	$\begin{array}{c} 81.4\\ 80.9\\ 80.3\\ 79.7\\ 78.2\\ 76.8\\ 75.3\\ 70.8\\ 69.3\\ 67.7\\ 66.2\\ 64.6\\ 63.0\\ 61.4\\ 59.7\\ 58.1\\ 56.3\\ 54.6\\ 59.7\\ 58.1\\ 54.8\\ 51.0\\ 49.1\\ 47.2\\ 45.2\\ 43.1\\ 41.0\\ 38.7\\ \end{array}$	25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,160 6,560 5,970 5,440 4,510 4,100 3,700 3,350 3,040 2,730									
Ree	ves	2	Ree	ves	2									

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

Fixed Jib Lift Capacity

Full Counterweight: 57,590 lbs Carbody Weight: 14,340

	80' Be	oom															
			t Jib				t Jib				ft Jib				t Jib		
Load Radius			igle (deg.)		-		gle (deg.)				igle (deg.)				igle (deg.)		Load Radius
(ft)	1 Boom Anale		3 Boom Angle	O Rated Load	-	0 Rated Load		Rated Load	Boom Angle	0 Rated Load	3 Boom Angle	0 Rated Load	1 Boom Angle	O Rated Load	ے Boom Angle	Boted Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
30	79.3	24,000*															30
32	78.0	24,000*															32
34 36	77.0 75.9	24,000* 24,000*			79.3 78.3	24,000* 24,000*											34 36
38	74.9	24,000*	79.6	20,230*	77.4	24,000*			79.3	20,000*							38
40	73.8	24,000*	78.5	19,730*	76.4	24,000*			78.4	20,000*			79.8	18,000*			40
45	71.1	24,000*	75.7	18,600*	73.9	24,000*	79.7	15,360*	76.1	20,000*			77.7	17,940*			45
50 55	68.3 65.3	24,000* 23,890	72.8 69.7	17,610* 16,710*	71.4 68.7	22,150* 20,280*	77.1	14,480*	73.8 71.3	18,540* 16,950*	78.0	11,080*	75.6 73.3	16,330* 14,900*			50 55
60	62.3	21,340	66.7	15,960*	66.1	18,800*	71.6	12,980*	68.9	15,690*	75.5	10,490*	71.2	13,750*	78.7	8,950*	60
65	59.3	19,200	63.6	15,290*	63.4	17,520*	68.8	12,360*	66.5	14,610*	73.0	9,980*	69.0	12,780*	76.4	8,480*	65
70	56.2	17,410	60.3	14,700*	60.6	16,400*	65.9	11,830*	64.0	13,660*	70.4	9,540*	66.7	11,900*	74.1	8,060*	70
75 80	52.8 49.3	15,780 14,460	56.7 53.1	14,150* 13,710*	57.6 54.6	15,360* 14,520*	62.7 59.6	11,350*	61.3 58.7	12,760* 12,030*	67.6 64.8	9,100* 8,730*	64.2 61.9	11,110* 10,440*	71.5 69.0	7,670*	75 80
85	49.5	13,330	55.1	13,710	51.5	13,470	56.3	10,550	56.0	11,390*	62.0	8,420*	59.5	9,850*	66.5	7,030*	85
90	41.8	12,320			48.3	12,450	52.9	10,250*	53.2	10,800*	59.0	8,130*	57.0	9,320*	63.9	6,760*	90
95	37.2	11,370			44.6	11,500			50.0	10,250*	55.6	7,840*	54.2	8,810*	60.9	6,500*	95
100 105	32.4	10,600			40.8 36.7	10,710			46.9 43.6	9,780* 9,360*	52.3	7,620*	51.5 48.7	8,390* 8,020*	58.1 55.0	6,280* 6,100*	100 105
110					50.7	10,000			40.0	8,990*			45.7	7,670*	51.8	5,930*	110
115									35.8	8,640*			42.3	7,340*			115
120													38.8	7,050*			120
125 Reeves	-	2	-	2	-	2		1	-	2		1	35.1	6,810*		1	125 Reeves
neeves				2						<u>-</u>		·		-			neeves
		aam															
	90 D	00m	t lib			40 f	t lib			501	t lib			60 f	t lib		
Load		30 f	t Jib Igle (deg.)				t Jib Igle (deg.))			ft Jib Igle (deg.)				t Jib gle (deg.))	Load
Radius		30 f Offset Ar	gle (deg.)	0			gle (deg.)) 30			ngle (deg.)	0			gle (deg.)) 30	Radius
	1 Boom Angle	30 f Offset An O Rated Load	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset Ar O Rated Load	ngle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	BO Rated Load	
Radius (ft)	1 Boom Angle (deg.)	30 f Offset An O Rated Load (lbs)	igle (deg.) 3	0	1	Offset An 0	igle (deg.) 3	30	1	Offset Ar 0	igle (deg.) 3	0	1	Offset An 0	igle (deg.) 3	30	Radius (ft)
Radius	1 Boom Angle (deg.) 79.1	30 f Offset An 0 Rated Load (lbs) 24,000*	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset Ar O Rated Load	ngle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	BO Rated Load	Radius (ft) 32
Radius (ft) 32	1 Boom Angle (deg.)	30 f Offset An O Rated Load (lbs)	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset Ar O Rated Load	ngle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	BO Rated Load	Radius (ft) 32 34 36
Radius (ft) 32 34 36 38	79.1 77.1 76.2	30 f Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000*	gle (deg.) 3 Boom Angle (deg.)	O Rated Load (lbs)	1 Boom Angle (deg.) 79.3 78.4	Offset An 0 Rated Load (lbs) 24,000* 24,000*	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle (deg.) 80.0	Offset Ar O Rated Load (lbs) 20,000*	ngle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	BO Rated Load	Radius (ft) 32 34 36 38
Radius (ft) 32 34 36 38 40	79.1 78.1 77.1 76.2 75.2	30 f Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000*	rgle (deg.) 3 Boom Angle (deg.) 79.5	Rated Load (lbs) 20,170*	1 Boom Angle (deg.) 79.3 78.4 77.5	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000*	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle (deg.) 80.0 79.2	Offset Ar 0 Rated Load (lbs) 20,000* 20,000*	ngle (deg.) 3 Boom Angle	O Rated Load	Boom Angle (deg.)	Offset An O Rated Load (lbs)	gle (deg.) 3 Boom Angle	BO Rated Load	Radius (ft) 32 34 36 38 40
Radius (ft) 32 34 36 38 40 45 50	79.1 77.1 76.2	30 f Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000*	gle (deg.) 3 Boom Angle (deg.)	0 Rated Load (lbs) 20,170* 19,060* 18,120*	1 Boom Angle (deg.) 79.3 78.4	Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000*	gle (deg.) Boom Angle (deg.) 78.2	Rated Load (Ibs)	1 Boom Angle (deg.) 80.0	Offset Ar O Rated Load (lbs) 20,000* 20,000* 20,000* 19,400*	ngle (deg.) 3 Boom Angle	O Rated Load (Ibs)	1 Boom Angle	Offset An O Rated Load (lbs) 18,000* 17,040*	gle (deg.) 3 Boom Angle	BO Rated Load	Radius (ft) 32 34 36 38 40 45 50
Radius (ft) 32 34 36 38 40 45 50 55	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5	30 f Offset An 0 Rated Load (lbs) 24,000*	79.5 77.0 74.4 71.6	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210*	1 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4	Offset An 0 Rated Load (lbs) 24,000* 24,00*	gle (deg.) 3 Boom Angle (deg.) 78.2 75.6	Rated Load (lbs) 14,810* 14,020*	1 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7	Offset Ar Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790*	pgle (deg.) Boom Angle (deg.) 78.9	O Rated Load (lbs) 11,300*	1 Boom Angle (deg.) 78.6 76.6 74.5	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580*	gle (deg.) 3 Boom Angle (deg.)	Rated Load (lbs)	Radius (ft) 32 34 36 38 40 45 50 55
Radius (ft) 32 34 36 38 40 45 50 55 60	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9	30 f Offset An O Rated Load (lbs) 24,000*	79.5 77.0 74.4 71.6 68.9	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460*	1 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4 68.1	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 19,880*	gle (deg.) 800m Angle (deg.) 78.2 75.6 73.2	Rated Load (lbs) 14,810* 14,020* 13,330*	1 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5	Offset Ar Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510*	78.9 76.7	0 Rated Load (lbs) 11,300* 10,730*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410*	gle (deg.) Boom Angle (deg.) 79.5	Rated Load (lbs) 9,100*	Radius (ft) 32 34 36 38 40 45 50 55 60
Radius (ft) 32 34 36 38 40 45 50 55 60 65 70	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5	30 f Offset An 0 Rated Load (lbs) 24,000*	79.5 77.0 74.4 71.6	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210*	1 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4	Offset An 0 Rated Load (lbs) 24,000* 24,00*	gle (deg.) 3 Boom Angle (deg.) 78.2 75.6	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230*	1 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7	Offset Ar Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 14,390*	pgle (deg.) Boom Angle (deg.) 78.9	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780*	1 Boom Angle (deg.) 78.6 76.6 74.5	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 12,520*	gle (deg.) 3 Boom Angle (deg.)	0 Rated Load (lbs) 9,100* 8,660* 8,240*	Radius (ft) 32 34 36 38 40 45 50 55
Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4	30 f Offset An O Rated Load (lbs) 24,000*	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660*	1 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4	Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 19,880* 19,880* 19,880* 19,880* 15,740	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720*	1 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 14,390* 13,490*	78.9 78.9 76.7 74.4 72.0 69.5	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,360*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 12,520* 11,680*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9	 Rated Load (lbs) 9,100* 8,660* 8,240* 7,870* 	Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75
Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75 80	1 Boom Angle (deg.) 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	30 f Offset An 0 Rated Load (lbs) 24,000* 19,000 11,120 1	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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	Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 19,880* 19,880* 19,880* 19,880* 15,740 14,410	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300*	1 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 14,390* 13,490* 12,720*	78.9 78.9 76.7 74.4 72.0 69.5 67.0	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,360* 8,990*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 12,520* 11,680* 11,000*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7	Rated Load (lbs) 9,100* 8,660* 8,240* 7,870* 7,530*	Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75 80
Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4	30 f Offset An O Rated Load (lbs) 24,000*	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660*	1 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4	Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 19,880* 19,880* 19,880* 19,880* 15,740	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720*	1 Boom Angle (deg.) 80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 14,390* 13,490*	78.9 78.9 76.7 74.4 72.0 69.5	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,360*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 12,520* 11,680*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9	 Rated Load (lbs) 9,100* 8,660* 8,240* 7,870* 	Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75
Radius (ft) 32 34 36 38 40 45 55 60 65 70 75 80 85 90 95	1 Boom Angle (deg.) 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 47.1 43.4	30 f Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 11,150	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 23,320* 21,400* 19,880* 19,880* 15,740 15,740 14,410 13,240 12,230 11,280	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930*	1 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	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 19,400* 19,400* 15,380* 14,390* 13,490* 12,720* 12,050* 11,440* 10,860*	78.9 78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 14,680* 11,680* 11,000* 10,400* 9,850* 9,320*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4	80 Rated Load (lbs) 9,100* 8,660* 8,240* 7,870* 7,530* 7,230* 6,960* 6,700*	Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 65 70 75 80 85 90 95
Radius (ft) 32 34 36 38 40 45 55 60 65 70 75 80 85 90 95 100	1 Boom Angle (deg.) 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 47.1 43.4 39.7	30 f Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,690 21,120 19,000 17,190 15,560 14,240 13,090 12,100 11,150 10,360	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 23,320* 21,400* 19,880* 19,880* 15,740 14,410 13,240 12,230 11,280 10,490	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	1 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	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 14,390* 13,490* 12,720* 12,050* 11,440* 10,866* 10,380*	78.9 78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9 56.1	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 13,400* 11,680* 11,000* 10,400* 9,850* 9,320* 8,880*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9	80 Rated Load (lbs) 9,100* 8,660* 8,240* 7,870* 7,230* 6,960* 6,700* 6,480*	Radius (ft) 32 34 36 38 40 45 55 60 65 55 60 65 70 75 80 85 90 95 100
Radius (ft) 32 34 36 38 40 45 55 60 65 70 75 80 85 90 95	1 Boom Angle (deg.) 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 47.1 43.4	30 f Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 11,150	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 23,320* 21,400* 19,880* 19,880* 15,740 15,740 14,410 13,240 12,230 11,280	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	1 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	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 19,400* 19,400* 15,380* 14,390* 13,490* 12,720* 12,050* 11,440* 10,860*	78.9 78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 14,680* 11,680* 11,000* 10,400* 9,850* 9,320*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4	80 Rated Load (lbs) 9,100* 8,660* 8,240* 7,870* 7,530* 7,230* 6,960* 6,700*	Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 65 70 75 80 85 90 95
Radius (ft) 32 34 36 38 40 45 55 60 65 70 75 80 85 90 95 100 105 110 115	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4 55.4 55.4 55.4 50.4 47.1 43.4 39.7	30 f Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,690 21,120 19,000 17,190 15,560 14,240 13,090 12,100 11,150 10,360	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 23,320* 21,400* 19,880* 19,880* 17,370 15,740 14,410 13,240 12,230 11,280 10,490 9,760	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	1 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 48.0 45.0 41.7	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 13,490* 12,720* 12,050* 11,440* 10,860* 10,880* 9,850 9,210 8,570	78.9 78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9 56.1	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,780* 8,990* 8,680* 8,370* 8,110* 7,870*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 11,080* 11,080* 11,000* 10,400* 9,850* 9,320* 8,880* 8,480* 8,480* 8,110* 7,760*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3	9,100* 8,660* 8,240* 7,870* 7,230* 6,960* 6,700* 6,480* 6,280*	Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115
Radius (ft) 32 34 36 38 40 45 55 60 65 70 75 80 85 90 95 100 105 110 115 120	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4 55.4 55.4 55.4 50.4 47.1 43.4 39.7	30 f Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,690 21,120 19,000 17,190 15,560 14,240 13,090 12,100 11,150 10,360	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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 39.1	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 23,320* 21,400* 19,880* 17,370 15,740 14,410 13,240 12,230 11,280 10,490 9,760 9,120	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	1 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 48.0 45.0 41.7 38.2	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 14,390* 12,720* 12,050* 11,440* 10,860* 10,380* 9,850 9,210 8,570 8,040	78.9 78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9 56.1	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,780* 8,990* 8,680* 8,370* 8,110* 7,870*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7 43.8	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 11,680* 11,000* 10,400* 9,850* 9,320* 8,880* 8,480* 8,480* 8,110* 7,760* 7,450*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,100* 8,660* 8,240* 7,870* 7,230* 6,960* 6,700* 6,480* 6,280* 6,100*	Radius (ft) 32 34 36 38 40 45 50 55 60 55 60 65 70 75 80 85 90 95 100 105 110 115 120
Radius (ft) 32 34 36 38 40 45 55 60 65 70 75 80 85 90 95 100 105 110 115	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4 55.4 55.4 55.4 50.4 47.1 43.4 39.7	30 f Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,690 21,120 19,000 17,190 15,560 14,240 13,090 12,100 11,150 10,360	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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 39.1	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 23,320* 21,400* 19,880* 17,370 15,740 14,410 13,240 12,230 11,280 10,490 9,760 9,120	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	1 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 48.0 45.0 41.7	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 13,490* 12,720* 12,050* 11,440* 10,860* 10,880* 9,850 9,210 8,570	78.9 78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9 56.1	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,780* 8,990* 8,680* 8,370* 8,110* 7,870*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 11,080* 11,080* 11,000* 10,400* 9,850* 9,320* 8,880* 8,480* 8,480* 8,110* 7,760*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,100* 8,660* 8,240* 7,870* 7,230* 6,960* 6,700* 6,480* 6,280* 6,100*	Radius (ft) 32 34 36 38 40 45 55 60 65 70 75 80 85 90 95 100 105 110 115
Radius (ft) 32 34 36 38 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125	1 Boom Angle (deg.) 79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4 55.4 55.4 55.4 50.4 47.1 43.4 39.7	30 f Offset An O Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,690 21,120 19,000 17,190 15,560 14,240 13,090 12,100 11,150 10,360	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	0 Rated Load (lbs) 20,170* 19,060* 18,120* 17,210* 16,460* 15,800* 15,210* 14,660* 14,190*	1 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 39.1	Offset An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 23,320* 21,400* 19,880* 17,370 15,740 14,410 13,240 12,230 11,280 10,490 9,760 9,120	gle (deg.) Boom Angle (deg.) 78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	Rated Load (lbs) 14,810* 14,020* 13,330* 12,760* 12,230* 11,720* 11,300* 10,930* 10,580*	1 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 48.0 45.0 41.7 38.2	Offset Ar 0 Rated Load (lbs) 20,000* 20,000* 20,000* 19,400* 17,790* 16,510* 15,380* 14,390* 12,720* 12,050* 11,440* 10,860* 10,380* 9,850 9,210 8,570 8,040	78.9 78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9 56.1	0 Rated Load (lbs) 11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	1 Boom Angle (deg.) 78.6 76.6 74.5 72.5 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	Offset An 0 Rated Load (lbs) 18,000* 17,040* 15,580* 14,410* 13,400* 11,680* 11,680* 9,850* 9,320* 8,880* 8,480* 8,480* 8,480* 7,760* 7,450* 7,180*	gle (deg.) Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9 58.3 55.5	9,100* 8,660* 8,240* 7,870* 7,230* 6,960* 6,700* 6,480* 6,280* 6,100*	Radius (ft) 32 34 36 38 40 45 50 55 60 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125

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

Fixed Jib Lift Capacity

Full Counterweight: 57,590 lbs Carbody Weight: 14,340

	100' B	Boom															
			t Jib				t Jib				t Jib				t Jib		
Load Radius			igle (deg.)				gle (deg.)				igle (deg.)				igle (deg.)		Load Radius
(f+)	1 Boom Anale	-	3 Boom Angle	0 Pated Load	1 Boom Angle	0 Pated Load	-	0 Pated Load		0 Pated Load	3 Boom Angle	0 Pated Load	1 Boom Angle	0 Pated Load	3 Boom Angle	0 Pated Load	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
32 34 36 38 40 55 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140	79.9 79.0 78.1 77.2 76.4 74.1 71.8 69.3 67.0 64.5 62.1 59.4 56.7 54.0 51.2 48.1 45.0 41.7 38.1 34.0	24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,450 20,870 18,730 16,930 15,290 13,970 12,830 11,810 10,860 10,070 9,360 8,730 8,130	78.0 75.7 73.2 70.7 68.2 65.7 62.9 60.2 57.4 54.5 51.2	19,480* 18,560* 17,650* 16,930* 15,670* 15,100* 14,300 13,110 12,050 11,060	80.0 79.2 78.4 76.3 74.2 71.9 69.7 67.5 65.3 62.8 60.4 55.5 52.8 50.1 47.2 44.3 40.9 37.4 33.7	24,000* 24,000* 24,000* 24,000* 22,480* 20,920* 18,950 17,150 15,490 14,150 13,000 11,970 11,020 10,200 9,500 8,860 8,220 7,690 7,230	79.1 76.7 74.5 72.2 69.9 67.3 64.9 62.4 59.8 56.9 54.0	15,100* 14,320* 13,660* 12,560* 12,050* 11,640* 11,260* 10,910* 10,580* 10,310*	79.9 78.0 76.0 73.9 67.8 65.6 63.4 61.2 59.0 56.5 54.1 51.6 49.0 46.1 43.2 40.2 36.8 33.2	20,000* 20,000* 18,580* 17,260* 16,110* 15,120* 14,170* 13,380* 12,690* 12,050* 11,130 10,310 9,590 8,950 8,310 7,780 7,290 6,830 6,430	79,7 77.7 75.5 73.4 71.1 68.8 66.5 64.2 61.6 59.1 56.4 53.7	11,500* 10,950* 10,470* 10,030* 9,610* 9,230* 8,920* 8,610* 8,330* 8,090* 7,870* 7,690*	79.3 77.5 75.5 73.7 71.8 69.9 67.8 65.8 63.8 61.7 59.5 57.3 55.1 52.7 50.2 47.7 45.1 42.3 39.4 35.9	18,000* 17,680* 16,200* 13,090* 13,090* 12,250* 11,550* 10,910* 10,910* 10,910* 8,920* 8,920* 8,920* 8,920* 8,700* 7,340 6,870 6,480 6,060	78.3 76.3 74.2 72.1 70.0 67.9 65.5 63.2 60.9 58.4 55.7 53.1	8,810* 8,420* 8,040* 7,710* 7,420* 7,160* 6,670* 6,670* 6,450* 6,280* 6,100* 5,950*	32 34 36 38 40 45 50 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140
145													32.4	5,730			145
Reeves	2			2	2	2		I		2		1		2		1	Reeves
	110' B	0000															
					1								1				
Load		30 f	t Jib				t Jib				t Jib				t Jib		Load
Load Radius		30 f Offset An	gle (deg.)	0			gle (deg.)	0			igle (deg.)	0			igle (deg.)	0	Load Radius
Radius	1	30 f Offset An 0	gle (deg.)	0		Offset An 0	gle (deg.) 3	0	1	Offset An 0	igle (deg.)	0		Offset An 0	igle (deg.)	0	
Radius (ft)	1 Boom Angle (deg.)	30 f Offset An 0 Rated Load (lbs)	gle (deg.) 3	0	1	Offset An 0	gle (deg.) 3	0	1	Offset An 0	igle (deg.) 3	0	1	Offset An 0	igle (deg.) 3	0	Radius (ft)
Radius	1 Boom Angle	30 f Offset An O Rated Load	gle (deg.) 3 Boom Angle (deg.)	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle (deg.)	Offset An O Rated Load	ngle (deg.) 3 Boom Angle	O Rated Load	1 Boom Angle	Offset An O Rated Load	gle (deg.) 3 Boom Angle	O Rated Load	Radius

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

Fixed Jib Lift Capacity

Full Counterweight: 57,590 lbs Carbody Weight: 14,340

	120' E	Room															
			t Jib			40 f	t Jib			50 f	t Ji b			60 f	t Ji b		
Load			gle (deg.)				ngle (deg.))			igle (deg.)				ngle (deg.,)	Load
Radius (ft)	1	0		0		0		30		0		0		0	-	30	Radius (ft)
(11)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (Ibs)	Boom Angle (deg.)	Rated Load (Ibs)	Boom Angle (deg.)	Rated Load (Ibs)	Boom Angle (deg.)	Rated Load (Ibs)	Boom Angle (deg.)	Rated Load (Ibs)	Boom Angle (deg.)	Rated Load (Ibs)	(11)
36 38 40 45 50 55 60 65 70 75 80 85 90 100 105 110 120 135 140 145 150	 79.7 79.0 78.2 76.3 74.3 72.2 70.2 68.2 66.1 63.9 61.7 59.5 57.3 54.8 52.4 49.9 47.3 44.5 41.6 38.5 35.3 31.7 	24,000* 24,000* 24,000* 24,000* 23,100 16,550 14,920 13,600 12,430 11,410 10,470 9,650 8,950 8,310 7,690 7,160 6,670 6,230 5,840	79.7 77.7 75.6 73.5 71.4 69.3 67.0 64.8 62.6 60.2 57.7 55.2 52.6	20,190* 19,290* 18,450* 17,720* 17,080* 16,490* 13,970 13,970 11,720 11,720 9,890 9,140	79.9 78.1 76.2 74.3 72.4 70.5 68.6 66.5 64.5 60.5 58.2 56.0 53.8 51.5 49.0 46.5 43.8 41.1 38.1 34.7	24,000* 24,000* 23,360 16,770 15,100 13,770 12,610 11,570 9,810 9,810 9,810 9,810 9,810 9,810 9,810 9,810 9,810 5,530	78.5 76.6 74.7 70.6 68.5 66.4 64.3 62.0 59.7 57.4 55.0 52.3	14,880* 14,240* 13,690* 12,670* 12,250* 11,600* 11,500* 11,500* 11,130 10,290 9,520 8,840 8,150	79.5 77.7 75.9 74.2 72.4 70.6 68.7 66.8 65.0 63.1 61.0 59.0 57.0 54.9 52.6 50.4 48.1 45.7 43.1 40.3 37.4 34.3	20,000* 20,000* 18,690* 17,500* 16,440* 13,910 12,740 11,700 9,920 9,190 8,530 7,890 7,890 7,860 6,410 5,590 5,590 5,240 4,910	79.2 77.4 75.6 73.6 71.7 67.8 65.6 63.6 61.4 59.3 56.8 54.5 52.1	11,330* 10,860* 10,420* 10,030* 9,340* 9,360* 8,770* 8,500* 8,280* 7,870* 7,690* 7,250	78.9 77.2 75.6 73.9 72.2 70.4 68.7 67.0 65.2 63.3 61.5 59.6 51.5 53.6 51.5 49.3 47.1 44.6 42.2 39.6 36.8 32.6	18,000* 17,390* 16,180* 15,120* 13,290* 12,560* 11,300* 11,300* 9,980 9,980 9,980 9,980 7,950 7,950 7,950 7,950 7,400 6,450 6,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,640 5,650 4,960 4,960 4,960 5,650 1,240 1,450	79.7 78.0 76.1 74.4 72.6 70.7 68.7 66.8 64.9 62.9 60.7 58.6 56.4 54.1 51.7	9,080* 8,700* 8,350* 8,350* 7,470* 7,230* 7,470* 7,230* 7,010* 6,790* 6,610* 6,410* 6,260* 6,410* 6,260* 5,970* 5,860*	36 38 38 40 40 500 65 555 60 60 65 700 75 800 85 900 905 100 105 1100 115 1200 1255 1300 140 135 1400 145 150
160 Reeves		2		2		2		1		2	-		33.6	4,340		1	160 Reeves
neeves				2		2		1		<u> </u>		1	A	2		1	neeves
	130' E		t Ji b			<u> 10 f</u>	t Jib			50 1	t Ji b			60 1	t Ji b		
Load			gle (deg.))			igle (deg.))			igle (deg.)				ngle (deg.))	Load
Radius		0	<u> </u>	0	1	0		30		0	<u> </u>	0		0	r · · · ·	30	Radius
(ft)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)			Rated Load	Denne Annele							Duralized	(ft)
38 40 45 50	79.7 79.0 77.1	24,000* 24,000 *	1.07	1)		(lbs)	(deg.)	(lbs)						Rated Load (lbs)		Rated Load (lbs)	
55 60 65 70 85 90 95 100 105 125 130 135 140 145 150 155 160 165 170 Reves	 75.3 73.4 71.5 69.6 67.7 65.6 63.6 61.6 59.6 57.3 55.2 52.9 50.6 48.1 45.6 43.0 40.2 37.3 33.9 	24,000* 24,000* 22,880 20,300 18,140 14,680 13,350 12,210 11,170 10,220 9,430 8,700 8,060 7,450 6,430 5,990 5,570 5,200	78.5 76.5 74.6 72.7 70.7 68.6 66.6 64.5 62.4 60.1 57.9 55.6 53.2	19,620* 18,780* 18,070* 17,430* 16,860 15,140 13,770 12,580 11,530 10,510 9,700 8,950 8,260	78.8 77.1 75.2 71.7 69.9 68.0 66.2 64.3 62.4 60.3 58.3 56.3 54.2 51.9 49.7 47.4 45.0 42.5 39.6 36.8 33.7	(05) 24,000* 23,170 20,540 18,380 16,550 14,880 13,550 12,380 11,350 10,380 9,560 8,860 7,030 6,540 6,080 5,680 5,660 4,930 4,600	77.5 75.7 73.8 71.8 69.9 68.0 66.1 63.9 61.9 59.8 57.6 55.2 52.9	(lbs) 15,100* 14,500* 13,420* 12,940* 12,940* 12,740* 11,770* 10,950 10,950 10,990 8,640 7,980 7,400	(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 57.2 55.1 53.1 51.0 48.8 46.6 44.1 41.7 39.1 36.3 33.1	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,330* 16,710 15,030 13,690 12,520 11,480 10,510 9,700 8,950 8,310 7,670 7,670 7,670 7,550 5,000 4,670 4,360 4,030	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 61.4 59.2 57.1 54.9 52.6	(lbs) 11,480* 11,020* 10,200* 9,850* 9,230* 8,950* 8,700* 8,700* 8,480* 8,260* 8,480* 7,670 6,590	(deg.) 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 47.8 45.6 43.3 41.0 38.3 35.6 32.7		(deg) 78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 64.6 62.6 62.6 62.6 63.7 56.6 54.5 52.2		388 40 45 555 60 65 55 60 65 70 75 80 85 90 95 100 105 135 130 135 130 145 150 165 160 165 170 Reves

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

Fixed Jib Lift Capacity

Full Counterweight: 57,590 lbs Carbody Weight: 14,340

	140' E	Boom															
			ft Ji b			40 f	it Ji b			50 f	t Ji b			60 1	t Ji b		
Load		O set An	gle (deg.)			O set An	gle (deg.))		O set Ar	ngle (deg.))		O set Ar	gle (deg.))	Load
Radius (ft)		0	-	80	-	0	-	80		0	-	30		0	-	30	Radius (ft)
(11)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	Boom Angle (deg.)	Rated Load (lbs)	(11)
40	79.6	24,000*	(uey.)	(103)	(ucy.)	(103)	(ucy.)	(103)	(ucy.)	(103)	(uey.)	(103)	(uey.)	(103)	(uey.)	(103)	40
45	77.9	24,000*			79.4	24,000*											45
50 55	76.2 74.4	24,000* 22,680	79.2 77.4	19,900* 19,090 *	77.8 76.1	24,000*	70.0	15 220*	79.1	20,000* 20,000 *			70 5	40.000*			50 55
60	72.6	20,080	75.6	1 9,090 18,400*	74.4	22,970 20,340	79.9 78.2	15,320* 14,720*	77.4 75.9	20,000 *********************************			78.5 77.0	18,000* 17,210*			60
65 70	70.9	17,940	73.8	17,760 *	72.8	18,180	76.5	14,170*	74.3	18,360	78.8	11,170*	75.6	16,130*	70.2	0.050*	65
75	69.1 67.2	16,110 14,460	72.0 70.0	16,680 14,960	71.1 69.3	16,330 14,680	74.8 72.9	13,690* 13,180 *	72.8 71.1	16,510 14,830	77.2 75.5	10,780* 10,380 *	74.1 72.5	15,160* 14,260 *	79.3 77.7	8,950* 8,590 *	70 75
80 85	65.3 63.5	13,130 11,970	68.1 66.2	13,600 12,380	67.6 65.9	13,330	71.2 69.4	12,760*	69.4	13,490	73.8 72.1	10,030*	71.0	13,490*	76.1 74.5	8,310*	80 85
90	61.6	10,950	64.3	12,300	64.1	12,160 11,130	69.4 67.6	12,380 * 11,810	67.8 66.2	12,300 11,260	70.4	9,720* 9,430*	69.4 67.9	12,410 11,350	7 4.5 72.9	8,020* 7,760*	90
95 100	59.5 57.5	9,980 9,190	62.2 60.1	10,310 9,500	62.2 60.3	10,160 9,340	65.6 63.7	10,780 9,920	64.4 62.7	10,290 9,470	68.6	9,120*	66.2	10,380	71.2	7,510 *	95 100
100	57.5 55.5	8,460	58.1	9,500 8,750	58.5	9,540 8,610	61.8	9,920 9,140	60.9	9,470 8,730	66.8 65.0	8,880* 8,660 *	64.6 63.0	9,540 8,810	69.5 67.8	7,270* 7,070 *	100
110 115	53.4 51.1	7,820 7,180	55.9 53.5	8,060 7,400	56.6 54.5	7,950 7,340	59.8 57.6	8,460 7,780	59.2 57.2	8,060 7,420	63.2 61.2	8,440* 8,000	61.4 59.6	8,150 7,490	66.1 64.3	6,870* 6,700 *	110 115
120	48.9	6,650	51.3	6,850	52.5	6,790	55.5	7,200	55.4	6,900	59.3	7,420	57.9	6,960	62.5	6,520*	120
125 130	46.6 44.2	6,170 5,730			50.4 48.2	6,300 5,840	53.4	6,670	53.5 51.6	6,390 5,930	57.3 55.3	6,900 6,390	56.1 54.3	6,450 5,990	60.7 58.8	6,370 * 6,230*	125 130
135	41.7	5,330			46.0	5,420			49.5	5,510	53.1	5,950	52.5	5,570	56.9	6,100*	135
140 145	38.8 36.0	4,910 4,560			43.5 41.1	5,020 4,670			47.3 45.1	5,090 4,730			50.5 48.5	5,150 4,800	54.7 52.7	5,640 5,240	140 145
150	32.9	4,210			38.5	4,320			42.9	4,400			46.5	4,470	02.1	0,210	150
155 160					35.7 32.5	3,940 3,610			40.5 37.8	4,030 3,680			44.4 42.0	4,100 3,720			155 160
165					52.5	3,010			35.1	3,370			39.7	3,410			165
170 175									32.2	3,080			37.3 34.6	3,130 2,840			170 175
Reeves						•		•		•	1		1	_		•	1
NEEVES	4	2	2	2		2		1		2		1		2		1	Reeves
neeves	150' E			2		2		1		2		1		2		1	Reeves
neeves	150' E	300m 30 f	ft Ji b			40 f	it Ji b	-		50 f	ft J ib	-		601	ft J ib		
Load	150' E	300m 30 f 0 set An	ft Ji b ngle (deg.))		40 f O set An	t Ji b Igle (deg.))		50 f O set Ar	ft Jib ngle (deg.))		601 Oset Ar	t Jib ngle (deg.))	Load
	150' E	300m 301 0 set An	ft Ji b ngle (deg.) 3	80	1	40 f O set An 0	t Ji b gle (deg.)) 30	1	50 f O set An	ft Jib ngle (deg.)) 30	1	601 Oset Ar	t Jib gle (deg.,) 30	
Load Radius	150' E	30 f 30 f 0 set An 0 Rated Load	ft Jib ngle (deg.) 3 Boom Angle	0 Rated Load	1 Boom Angle	40 f O set An O Rated Load	t Jib gle (deg.) 3 Boom Angle) 30	1 Boom Angle	50 f O set An	ft Jib ngle (deg.) 3 Boom Angle) 30	1 Boom Angle	601 Oset Ar	t Jib gle (deg., Boom Angle) 30	Load Radius
Load Radius	150' E	30 f 30 f 0 set An 0 Rated Load (lbs) 24,000*	ft Ji b ngle (deg.) 3	80	1	40 f O set An O Rated Load (lbs) 24,000*	t Ji b gle (deg.)) BO Rated Load	1	50 f O set Ar O Rated Load	ft Jib ngle (deg.)) 30 Rated Load	1	60 f O set Ar O Rated Load	t Jib gle (deg.,) 30 Rated Load	Load Radius (ft)
Load Radius (ft) 45 50	150' E 1 Boom Angle (deg.) 78.6 77.0	30 f 30 f 0 set An 0 Rated Load (lbs) 24,000* 24,000*	t Jib gle (deg.) Boom Angle (deg.) 79.9	20 Rated Load (lbs) 20,170*	1 Boom Angle (deg.) 80.0 78.5	40 f O set An O Rated Load (lbs) 24,000* 24,000*	t Jib gle (deg.) 3 Boom Angle) BO Rated Load	1 Boom Angle (deg.) 79.6	50 f O set Ar O Rated Load (lbs) 20,000*	ft Jib ngle (deg.) 3 Boom Angle) 30 Rated Load	1 Boom Angle (deg.)	60 f O set Ar O Pated Load (lbs)	t Jib gle (deg., Boom Angle) 30 Rated Load	Load Radius (ft) 45 50
Load Radius (ft)	150' E 1 Boom Angle (deg.) 78.6	30 f 30 f 0 set An 0 Rated Load (lbs) 24,000*	ft J ib gle (deg.) 3 Boom Angle (deg.)	BO Rated Load (lbs)	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3	40 f O set An O Rated Load (lbs) 24,000*	t Jib gle (deg.) 3 Boom Angle) BO Rated Load	1 Boom Angle (deg.)	50 f O set An O Rated Load (lbs)	ft Jib ngle (deg.) 3 Boom Angle (deg.)) BO Pated Load (lbs)	1 Boom Angle	60 f O set Ar O Rated Load	t Jib gle (deg., Boom Angle) 30 Rated Load	Load Radius (ft) 45 50 55 60
Load Radius (ft) 45 50 55 60 65	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0	30 f 30 f 0 set Ar 0 Rated Load (lbs) 24,000* 24,000* 24,000* 19,920 17,790	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8	20 Rated Load (lbs) 20,170* 19,370* 18,690* 18,070*	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7	40 f O set An O Rated Load (lbs) 24,000* 24,000* 22,810 20,190 18,030	t Jib gle (deg.) Boom Angle (deg.) 78.9 77.3) 20 Rated Load (lbs) 14,920* 14,390*	1 Boom Angle (deg.) 79.6 78.1 76.6 75.1	50 f O set Arr O Rated Load (lbs) 20,000* 20,000* 20,000* 18,200	t Jib ngle (deg.) Boom Angle (deg.) 79.4) 30 Pated Load (lbs) 11,330*	1 Boom Angle (deg.) 79.1 77.7 76.3	60 1 O set Ar O Rated Load (lbs) 18,000* 17,700 * 16,600*	t Jib gle (deg.) Boom Angle (deg.)	30 Rated Load (lbs)	Load Radius (ft) 45 50 55 60 65
Load Padius (ft) 45 50 55 60	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6	30 om 30 f 0 set Ar. 0 Rated Load (lbs) 24,000* 24,000* 22,530 19,920 17,790 15,960	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4	20 Rated Load (lbs) 20,170* 19,370* 18,690*	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3	40 f O set Arr O Rated Load (lbs) 24,000* 24,000* 22,810 20,190	t Jib gle (deg., 3 Boom Angle (deg.) 78.9	00 Rated Load (lbs) 14,920* 14,390* 13,910*	1 Boom Angle (deg.) 79.6 78.1 76.6	50 f O set Ar O Rated Load (lbs) 20,000* 20,000* 20,000*	ft Jib ngle (deg.) 3 Boom Angle (deg.)) BO Pated Load (lbs)	1 Boom Angle (deg.) 79.1 77.7	60 1 O set Ar O Rated Load (lbs) 18,000* 17,700* 16,600* 15,650*	t Jib gle (deg., Boom Angle) 30 Rated Load	Load Radius (ft) 45 50 55 60
Load Radius (ft) 45 50 55 60 65 70 75 80	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8	30 or 30 f 30 f 0 set Ar. 0 Rated Load (lbs) 24,000* 22,500 19,920 17,790 15,960 14,300 12,980	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5	20,170* 19,370* 18,070* 18,550 14,830 13,470	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8	40 f O set Ar O Rated Load (lbs) 24,000* 22,810 20,190 18,030 16,180 14,520 13,180	t Jib gle (deg., boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3	20 Rated Load (lbs) 14,390* 13,910* 13,420* 13,00*	1 Boom Angle (deg.) 79.6 78.1 76.6 75.1 73.7 72.1 70.5	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 18,200 16,350 14,680 13,330	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7	20 20 Pated Load (lbs) 11,330* 10,930* 10,530* 10,200*	79.1 77.7 76.3 74.9 73.4 71.9	60 1 O set Ar O Rated Load (lbs) 18,000* 17,700* 15,650* 15,650* 14,720* 13,420	t Jib gle (deg., Boom Angle (deg.) 79.9 78.3 76.8	30 Rated Load (lbs) 9,060* 8,700* 8,420*	Load Padius (ft) 45 50 55 60 65 70 75 80
Load Radius (ft) 45 50 55 60 65 70 75	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5	30 or 30 f 30 f 0 set Ar. 0 Rated Load (lbs) 24,000* 24,000* 22,530 19,920 17,790 15,960 14,300	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2	0 Rated Load (lbs) 20,170* 19,370* 18,690* 18,070* 16,550 14,830	80.0 78.5 76.8 75.3 73.7 72.1 70.5	40 f O set An O set An (lbs) 24,000* 24,000* 22,810 20,190 18,030 16,180 14,520	t Jib gle (deg., boom Angle (deg.) 78.9 77.3 75.7 73.9	00 Rated Load (lbs) 14,920* 14,390* 13,910* 13,420*	1 Boom Angle (deg.) 79.6 78.1 76.6 75.1 73.7 72.1	50 f O set Ar. O Rated Load (lbs) 20,000* 20,000* 18,200 16,350 14,680	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3	30 Rated Load (lbs) 11,330* 10,930 * 10,530*	79.1 77.7 76.3 74.9 73.4	60 f O set Ar O Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720*	t Jib gle (deg., Boom Angle (deg.) 79.9 78.3) 20 Pated Load (lbs) 9,060* 8,700*	Load Radius (ft) 45 55 60 65 70 75
Load Padius (ft) 45 50 55 60 65 70 75 80 85 90 95	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4	30 om 30 f 30 f 0 set Ar, 0 Rated Load (lbs) 24,000* 22,530 19,920 17,790 15,960 14,300 12,980 11,810 10,800 9,830	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 76.4 74.8 73.1 76.5 67.7 65.9 63.9	20,170* 19,370* 18,690* 18,070* 16,550 14,830 13,470 12,250 11,190 10,180	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8	40 f 0 set Arr 0 Rated Load (lbs) 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 12,010 10,970 10,000	t Jib gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1	20 Rated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,420* 13,630* 11,680 10,670	1 Boom Angle (deg,) 79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 18,200 16,350 14,680 13,330 12,140 11,110 10,110	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8	30 Rated Load (lbs) 11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300*	79.1 779.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4	601 O set Ar. O Rated Load (lbs) 18,000* 17,700* 16,600* 14,720* 13,420 12,230 11,190 10,200	Tib gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 72.2	9,060* 8,700* 8,700* 8,420* 8,130* 7,890* 7,620*	Load Padius (ft) 45 55 60 65 70 55 80 85 90 95
Load Padius (ft) 45 55 60 55 60 55 60 65 70 75 80 85 80 95 100	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6	30 om 30 f 30 f 0 set Ar, 0 Rated Load (lbs) 24,000* 22,530 19,920 17,790 15,960 14,300 12,980 11,810 0,9830 9,010	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 76.4 74.8 73.1 76.5 63.9 63.9 62.1	20,170* 19,370* 18,690* 18,070* 16,550 14,830 13,470 12,250 11,190 10,180 9,340	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1	40 f 0 set An 0 Rated Load (lbs) 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 12,010 10,970 10,000 9,190	t Jb gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3	20 Rated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,420* 13,630* 11,680 9,810	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 20,000* 16,350 14,680 13,330 12,140 11,110 9,300	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2	30 Rated Load (lbs) 11,330* 10,930* 10,930* 10,200* 9,870* 9,870* 9,930*	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9	60 1 O set Ar. O Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720* 13,420 12,230 11,190 10,200 9,390	Tib gle (deg., boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 72.2 70.6	9,060* 8,700* 8,130* 8,130* 7,890* 7,620* 7,400*	Load Padius (ft) 45 55 60 65 70 75 80 85 80 85 90 95
Load Padius (ft) 45 55 60 65 70 75 80 85 90 95 100 105 110	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8	30 om 30 f 30 set Ar. 7 7 7 7 7 7 7 7 7 7 7 7 7	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 62.1 60.2 58.2	20,170* 19,370* 18,690* 18,690* 16,550 14,830 13,470 12,250 11,190 9,340 8,590 7,910	Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6	40 f 0 set An 0 Rated Load (lbs) 24,000* 24,000* 22,810 18,030 16,180 14,520 13,180 12,010 10,970 10,970 10,970 8,460 7,800	t Jib gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7	20 Rated Load (lbs) 14,920* 14,390* 13,910* 13,420* 13,420* 13,420* 13,420* 10,670 9,810 9,030 8,330	79.6 79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9	50 f O set Ar. O Rated Load (lbs) 20,000* 20,000* 20,000* 18,200 16,350 14,680 13,330 12,140 11,110 10,110 9,300 8,570 7,910	t Jib ggle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 66.5 64.8	20 20 Pated Load (lbs) 11,330* 10,930* 10,530* 10,530* 10,530* 10,530* 9,870* 9,870* 9,900* 8,810* 8,570	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 62.9	60 1 0 set Ar. 0 Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720* 13,420 12,230 11,190 9,390 8,640 7,980	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 75.3 73.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.9 76.9 76.9 76.9 76.9 76.9 76.9 76.9	9,060* 8,700* 8,420* 8,130* 7,690* 7,690* 7,690* 7,200* 7,200*	Load Radius (ft) 45 55 60 65 70 75 80 85 90 95 90 95 100 105 110
Load Padius (ft) 45 55 60 65 70 75 80 85 90 95 100 105 110 115	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7	300 301 301 0 set Ar. 0 Rated Load (lbs) 24,000* 24,000* 24,000* 22,530 19,920 19,920 19,920 11,7790 15,960 14,300 12,980 11,810 10,800 9,010 8,310 7,640 7,030	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 62.1 60.2 58.2 56.1	20,170* 19,370* 18,690* 18,690* 18,670* 14,830 13,470 12,250 11,190 9,340 8,590 7,910 7,270	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 56.7	40 f 0 set Ari 0 Rated Load (lbs) 24,000* 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 12,010 10,970 10,970 9,190 8,460 7,800 7,160	t Jlb gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7	20 20 20 20 20 20 20 20 20 20	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 69.0 67.5 64.2 62.6 60.9 59.1	50 f O set Ar. O Reted Load (lbs) 20,000* 20,000* 18,200 16,350 14,680 13,330 12,140 11,110 10,110 9,300 8,570 7,910 7,270	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9	20 Rated Load (lbs) 11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,590* 9,060* 8,810* 8,570 7,890	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 62.9 61.2	60 1 0 set Ar 0 Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720* 13,420 12,230 11,200 9,390 8,640 7,980 7,340	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.3 76.8 75.3 76.8 75.3 73.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.6 76.9 76.9 76.9 76.9 76.9 76.9 76.9	9,060* 8,700* 8,700* 8,420* 8,130* 7,690* 7,690* 7,690* 7,200* 7,200* 7,200* 7,200*	Load Padius (ft) 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115
Load Radius (ft) 45 50 55 60 65 70 75 80 85 90 95 100 105 105 115 120 125	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7 49.6	30 om 30 f 30 f 0 set Ar, 0 Rated Load (lbs) 24,000* 22,530 19,920 17,790 15,960 14,300 11,810 10,800 9,830 9,010 8,310 7,640 7,030 6,500 5,990	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 62.1 60.2 58.2	20,170* 19,370* 18,690* 18,690* 16,550 14,830 13,470 12,250 11,190 9,340 8,590 7,910	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 67.2 65.6 63.8 62.1 60.4 56.7 54.8 52.9	40 f 0 set Arr 0 Rated Load (lbs) 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 10,970 10,000 9,190 8,460 7,800 7,160 6,610 6,120	Ib gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8 55.8	20 20 20 Rated Load (lbs) 14,920* 13,920* 13,920* 13,420* 13,420* 13,420* 13,420* 13,420* 13,630* 10,670 9,810 9,030 8,330 7,670 7,090 6,560	1 Boom Angle (deg.) 79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 69.0 67.5 65.8 64.2 62.6 60.9 59.1 57.4 55.7	50 f O set Ar. 7 Pated Load (lbs) 20,000* 20,000* 20,000* 16,350 14,680 13,330 14,680 13,330 12,140 11,110 9,300 8,570 7,910 7,270 6,720 6,210	t Jib ngle (deg.) 3 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3	200 200 Pated Load (lbs) 11,330* 10,930* 10,930* 10,200* 9,870* 9,590* 9,590* 9,300* 9,600* 8,810* 8,810* 8,570 7,290 6,760	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 65.9 61.2 59.6 58.0	601 O set Ar. 0 Rated Load (lbs) 18,000* 17,700* 15,650* 14,720* 13,420 11,190 10,200 9,390 8,640 7,980 7,980 7,340 6,790 6,280	Tele (deg., agle (deg., boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 75.3 73.8 75.3 73.8 75.3 73.8 75.3 75.3 73.8 75.3 75.3 75.3 75.6 75.3 75.3 75.3 75.3 75.3 75.3 75.3 75.3	9,060* 8,700* 8,700* 8,420* 8,130* 7,890* 7,200* 7,200* 6,830* 6,650* 6,500*	Load Radius (ft) 45 50 55 60 65 70 65 70 65 70 65 70 85 90 95 90 95 100 105 115 1120 125
Load Padius (ft) 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7 49.6 47.5	30 om 30 f 30 set Ar; 7 7 7 8 8 8 8 9 10 10,800 9,830 9,010 8,310 7,030 6,500 5,590 5,550	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 63.9 62.1 60.2 58.2 56.1 54.0	20,170* 19,370* 18,690* 18,690* 18,690* 14,830 13,470 12,250 11,190 10,180 9,340 9,340 7,910 7,270 6,700	Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 52.9 51.0	40 f 0 set Ar, 0 Rated Load (Ibs) 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 12,010 10,970 10,900 9,190 8,460 7,800 7,160 6,610 6,610 5,660	t Jib gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8	20 20 20 20 20 20 20 20 20 20	1 Boom Angle (deg,) 79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 55.7 57.4 55.7 53.9	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 20,000* 14,680 13,330 14,680 13,330 12,140 11,110 10,110 9,300 8,570 7,910 7,270 6,720 6,210 5,750	t Jib ngle (deg.) 3 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3 57.5	20 20 Pated Load (lbs) 11,330* 10,930* 10,930* 10,500* 9,870* 9,590* 9,590* 9,590* 9,590* 9,500* 8,810* 8,570 7,290 6,760 6,280	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 62.9 61.2 59.6 58.0 56.3	601 O set Ar. 0 Rated Load (lbs) 18,000* 17,700* 16,600* 13,650* 14,720* 13,420 12,230 12,230 12,230 12,230 12,230 10,200 9,390 8,640 7,340 6,790 6,280 5,820	Ib gle (deg., gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 73.8 72.2 70.6 69.1 67.5 65.7 64.1 62.4 60.7	9,060* 8,700* 8,700* 8,300* 7,890* 7,890* 7,200* 7,200* 7,200* 6,830* 6,550* 6,500* 6,500* 6,500*	Load Radius (ft) 45 50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130
Load Padius (ft) 45 55 60 55 60 55 60 65 70 75 80 95 100 105 100 105 110 115 120 125 130 135 140	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7 49.6 47.5 45.3 42.8	30 om 30 f 30 f 0 set Ar, 0 Reted Load (lbs) 24,000* 22,530 19,920 17,790 15,960 14,300 12,980 11,810 9,830 9,010 8,310 7,640 7,640 7,630 6,500 5,550 5,150 4,730	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 63.9 62.1 60.2 58.2 56.1 54.0	20,170* 19,370* 18,690* 18,690* 18,690* 14,830 13,470 12,250 11,190 10,180 9,340 9,340 7,910 7,270 6,700	Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 51.0 49.0 46.7	40 f 0 set An 0 Rated Load (lbs) 24,000* 24,000* 22,810 18,030 16,180 14,520 13,180 12,010 10,970 9,190 8,460 7,160 6,610 6,610 6,5,260 4,850	Ib gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8 55.8	20 20 20 Rated Load (lbs) 14,920* 13,920* 13,920* 13,420* 13,420* 13,420* 13,420* 13,420* 13,630* 10,670 9,810 9,030 8,330 7,670 7,090 6,560	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 59.1 57.4 55.7 53.9 52.0 50.0	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 16,350 14,680 13,330 12,140 13,330 12,140 13,330 12,140 13,330 7,210 6,720 6,210 5,730 5,330 4,930	t Jib ngle (deg.) 3 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3	200 200 Pated Load (lbs) 11,330* 10,930* 10,930* 10,200* 9,870* 9,590* 9,590* 9,300* 9,600* 8,810* 8,810* 8,570 7,290 6,760	79.1 77.7 76.3 74.9 73.4 71.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 62.9 61.2 59.6 58.0 56.3 54.6 52.8	601 O set Ar. 0 Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720* 13,420 12,230 11,190 9,390 8,640 7,980 7,340 6,790 6,280 5,820 5,400 4,980	Ib gle (deg., gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0	9,060* 8,700* 8,700* 8,700* 8,420* 7,890* 7,620* 7,90* 7,60* 6,650* 6,500* 6,500* 6,500* 6,500*	Load Radius (ft) 45 55 60 65 70 75 80 85 70 75 80 85 90 95 100 105 110 115 120 125 130 135
Load Padius (ft) 45 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7 49.6 47.5 45.3 42.8 40.3	30 of 30 f 30 f 2 set Ar, 7 24,000* 24,000* 22,530 19,920 17,790 15,960 14,300 12,980 11,810 10,800 9,8310 7,640 7,030 6,500 5,550 5,1550 4,730 4,320	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 63.9 62.1 60.2 58.2 56.1 54.0	20,170* 19,370* 18,690* 18,690* 18,690* 14,830 13,470 12,250 11,190 10,180 9,340 9,340 7,910 7,270 6,700	Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 52.9 51.0 49.0 46.7 44.6	40 f 0 set An 0 Rated Load (lbs) 24,000* 24,000* 24,000* 22,810 18,030 16,180 14,520 13,180 12,010 10,970 9,190 8,460 7,160 6,610 6,610 6,120 5,260 4,850 4,450	Ib gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8 55.8	20 20 20 Rated Load (lbs) 14,920* 13,920* 13,920* 13,420* 13,420* 13,420* 13,420* 13,420* 13,630* 10,670 9,810 9,030 8,330 7,670 7,090 6,560	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 59.1 57.4 55.7 53.9 52.0 50.0 48.1	50 f O set Ar, 0 Rated Load (lbs) 20,000* 20,000* 20,000* 10,000* 14,680 13,330 12,140 11,110 10,110 10,110 9,300 8,570 7,910 7,270 6,210 5,330 4,930 4,560	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3 57.5 55.6	20 20 Pated Load (lbs) 11,330* 10,930* 10,930* 10,530* 9,870* 9,800*	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 62.9 61.2 59.6 58.0 56.3 54.6 52.8 51.0	601 0 set Ar. 0 Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720* 13,420 12,230 11,190 9,390 8,640 7,340 6,790 6,790 6,280 5,820 5,820 4,980 4,620	Ib gle (deg., gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.2 70.6 69.1 67.5 65.7 64.1 62.4 60.7 58.9 57.0 55.1	9,060* 8,700* 8,700* 8,420* 8,130* 7,890* 7,200* 7,200* 7,200* 7,200* 7,200* 7,200* 6,830* 6,500* 6,500* 6,507 5,970 5,530 5,130	Load Radius (ft) 45 55 60 65 70 75 80 85 90 95 100 105 110 115 120 135 130 135 140 145
Load Radius (ft) 45 50 55 60 65 70 65 70 85 80 85 90 95 100 105 110 115 125 130 135 145 155	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7 49.6 47.5 45.3 42.8	30 om 30 f 30 f 0 set Ar, 0 Reted Load (lbs) 24,000* 22,530 19,920 17,790 15,960 14,300 12,980 11,810 9,830 9,010 8,310 7,640 7,640 7,630 6,500 5,550 5,150 4,730	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 63.9 62.1 60.2 58.2 56.1 54.0	20,170* 19,370* 18,690* 18,690* 18,690* 14,830 13,470 12,250 11,190 10,180 9,340 9,340 7,910 7,270 6,700	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 55.7 54.8 52.9 51.0 49.0 46.7 44.6 42.3 39.9	40 f 0 set Arr 0 Rated Load (lbs) 24,000* 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 14,520 13,180 10,970 10,000 9,190 8,460 7,800 6,610 6,610 6,5260 4,850 4,850 4,050 3,700	Ib gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8 55.8	20 20 20 Rated Load (lbs) 14,920* 13,920* 13,920* 13,420* 13,420* 13,420* 13,420* 13,420* 13,630* 10,670 9,810 9,030 8,330 7,670 7,090 6,560	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 59.1 57.4 55.7 53.9 52.0 50.0	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 16,350 14,680 13,330 12,140 13,330 12,140 13,330 12,140 13,330 7,210 6,720 6,210 5,730 5,330 4,930	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3 57.5 55.6	20 20 Pated Load (lbs) 11,330* 10,930* 10,930* 10,530* 9,870* 9,800*	79.1 77.7 76.3 74.9 73.4 71.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 62.9 61.2 59.6 58.0 56.3 54.6 52.8	601 O set Ar. 0 Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720* 13,420 12,230 11,190 9,390 8,640 7,980 7,340 6,790 6,280 5,820 5,400 4,980	Ib gle (deg., gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0	9,060* 8,700* 8,700* 8,700* 8,420* 7,890* 7,620* 7,90* 7,60* 6,650* 6,500* 6,500* 6,500* 6,500*	Load Rediuss (ft) 45 50 55 60 65 55 60 65 70 75 80 85 90 95 90 95 100 105 110 115 120 135 140 145 155
Load Radius (ft) 45 50 55 60 65 70 75 80 85 90 95 100 105 105 100 115 125 130 135 145 155 160	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7 51.7 49.6 47.5 47.5 47.5 47.5 47.5 37.8 37.8 40.3 37.8	30 of 30 f 30 f 0 set Ar, 0 Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 19,920 17,790 15,960 14,300 12,980 11,810 10,803 9,010 8,310 7,640 7,030 6,500 5,950 5,150 5,150 4,730 4,320 3,940	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 63.9 62.1 60.2 58.2 56.1 54.0	20,170* 19,370* 18,690* 18,690* 18,690* 14,830 13,470 12,250 11,190 10,180 9,340 9,340 7,910 7,270 6,700	Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 52.9 51.0 49.0 46.7 44.6 39.9 37.3	40 f 0 set Ar, 0 Rated Load (lbs) 24,000* 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 14,520 13,180 14,520 13,180 14,520 13,180 14,520 13,180 14,520 13,660 5,260 4,850 4,850 4,850 4,450 3,700 3,350	Ib gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8 55.8	20 20 20 Rated Load (lbs) 14,920* 13,920* 13,920* 13,420* 13,420* 13,420* 13,420* 13,420* 13,630* 10,670 9,810 9,030 8,330 7,670 7,090 6,560	1 Boom Angle (deg.) 79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 59.1 57.4 55.7 53.9 52.0 50.0 50.0 48.1 46.1 43.9 41.6	501 O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 14,680 13,330 14,680 13,330 12,140 11,110 10,110 9,300 8,570 7,910 7,270 6,210 5,750 5,330 4,930 4,960 3,790 3,430	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3 57.5 55.6	20 20 Pated Load (lbs) 11,330* 10,930* 10,930* 10,530* 9,870* 9,800*	79.1 79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 61.2 59.6 58.0 56.3 54.6 58.0 56.3 54.6 52.8 51.0 49.2 47.3 45.2	601 O set Ar. 0 Rated Load (lbs) 18,000* 17,700* 15,650* 14,720* 13,420 11,190 10,200 9,390 8,640 7,380 7,380 7,380 7,380 7,380 5,820 5,400 4,620 4,230 3,850 3,850 3,480	Ib gle (deg., gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.2 70.6 69.1 67.5 65.7 64.1 62.4 60.7 58.9 57.0 55.1	9,060* 8,700* 8,700* 8,420* 8,130* 7,890* 7,200* 7,200* 7,200* 7,200* 7,200* 7,200* 6,830* 6,500* 6,500* 6,507 5,970 5,530 5,130	Load Radiuss (ft) 45 50 55 60 65 70 65 70 65 70 65 70 80 85 90 95 90 95 100 105 110 115 120 135 140 145 155 150
Load Radius (ft) 45 55 60 55 60 65 70 75 80 85 90 95 100 105 110 115 125 130 135 140 145 155 165 165 170	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 53.7 51.7 49.6 47.5 45.3 42.8 40.3 37.8 35.0	30 f 30 f 30 f 0 set Ar, 0 Rated Load (bs) 24,000* 24,000* 22,530 19,920 17,790 15,960 14,300 10,800 9,830 9,010 8,310 10,800 9,830 9,010 8,310 5,550 5,550 5,550 5,550 5,550 5,550 5,550 3,940 3,590	t Jib gle (deg.) Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 63.9 62.1 60.2 58.2 56.1 54.0	20,170* 19,370* 18,690* 18,690* 18,690* 14,830 13,470 12,250 11,190 10,180 9,340 9,340 7,910 7,270 6,700	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 55.7 54.8 52.9 51.0 49.0 46.7 44.6 42.3 39.9	40 f 0 set Arr 0 Rated Load (lbs) 24,000* 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 14,520 13,180 10,970 10,000 9,190 8,460 7,800 6,610 6,610 6,5260 4,850 4,850 4,050 3,700	Ib gle (deg., gle (deg., Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8 55.8	20 20 20 Rated Load (lbs) 14,920* 13,920* 13,920* 13,420* 13,420* 13,420* 13,420* 13,420* 13,630* 10,670 9,810 9,030 8,330 7,670 7,090 6,560	1 Boom Angle (deg,) 79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 59.1 57.4 55.7 53.9 52.0 50.0 48.1 46.1 43.9 41.6 39.3 36.8	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 14,680 13,330 14,680 13,330 13,330 8,570 7,910 7,910 7,910 7,910 5,750 5,330 4,930 4,560 4,160 3,790 3,430 3,100 2,820	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3 57.5 55.6	20 20 Pated Load (lbs) 11,330* 10,930* 10,930* 10,530* 9,870* 9,800*	79.1 79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 64.4 65.9 65.8 54.6 58.0 54.6 58.0 54.6 54.8 54.0 54.6 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.8 54.0 54.0 54.0 54.0 54.0 54.0 54.0 54.0	601 O set Ar. 0 Rated Load (lbs) 18,000* 17,700* 16,600* 15,650* 14,720* 13,420 12,230 12,230 11,190 10,200 9,390 8,640 7,340 6,790 6,280 5,820 5,820 5,400 4,620 4,620 4,620 4,620 3,840 3,170 2,860	Ib gle (deg., gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 75.3 73.2 70.6 69.1 67.5 65.7 64.1 62.4 60.7 58.9 57.0 55.1	9,060* 8,700* 8,700* 8,420* 8,130* 7,890* 7,200* 7,200* 7,200* 7,200* 7,200* 7,200* 6,830* 6,500* 6,500* 6,507 5,970 5,530 5,130	Load Radius (ft) 45 50 55 60 65 70 55 60 65 70 75 80 85 90 95 100 105 110 115 125 130 135 140 135 140 155 160 155 160 165 170
Load Radius (ft) 45 50 55 60 65 70 75 80 85 90 95 100 105 110 105 110 125 130 135 140 145 155 160 165	150' E 1 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 61.4 59.6 57.7 55.8 53.7 51.7 49.6 47.5 45.3 42.8 40.3 37.8 35.0 31.8	30 f 30 f 30 f 0 set Ar, 0 Rated Load (bs) 24,000* 24,000* 22,530 19,920 17,790 15,960 14,300 10,800 9,830 9,010 8,310 10,800 9,830 9,010 8,310 5,550 5,550 5,550 5,550 5,550 5,550 5,550 3,940 3,590	t Jib gle (deg.) 79.9 78.1 76.4 74.8 73.1 76.4 74.8 73.1 69.5 67.7 65.9 63.9 62.1 60.2 58.2 56.1 54.0 51.8	20,170* 19,370* 18,690* 18,690* 18,690* 14,830 13,470 12,250 11,190 10,180 9,340 9,340 7,910 7,270 6,700	1 Boom Angle (deg.) 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 63.8 62.1 60.4 58.6 53.6 54.8 52.9 51.0 49.0 46.7 44.6 42.3 39.9 37.3 34.6	40 f 0 set Ar, 0 Rated Load (lbs) 24,000* 24,000* 22,810 20,190 18,030 16,180 14,520 13,180 14,520 13,180 14,520 13,180 14,520 13,180 14,520 13,180 14,520 13,660 5,260 4,850 4,850 4,850 4,450 3,700 3,350	t Jib gle (deg., (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 63.5 61.7 59.7 57.8 55.8 55.8 53.8	20 20 20 Rated Load (lbs) 14,920* 13,920* 13,920* 13,420* 13,420* 13,420* 13,420* 13,420* 13,630* 10,670 9,810 9,030 8,330 7,670 7,090 6,560	1 Boom Angle (deg,) 79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 59.1 57.4 55.7 53.9 52.0 50.0 48.1 46.1 43.9 41.6 39.3 36.8 34.2	50 f O set Ar. 0 Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 14,680 13,330 14,680 13,330 12,140 11,110 10,110 9,300 8,570 7,270 6,2720 6,210 5,750 5,330 4,930 4,930 4,960 3,790 3,430 3,100	t Jib gle (deg.) Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8 62.9 61.2 59.3 57.5 55.6 53.4	20 20 Pated Load (lbs) 11,330* 10,930* 10,930* 10,530* 9,870* 9,800*	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9 64.4 65.9 64.4 62.9 61.2 59.6 58.0 56.3 54.6 58.0 56.3 54.6 52.8 51.0 49.2 43.1 41.0 38.7	601 O set Ar. 0 Rated Load (lbs) 18,000* 17,700* 16,600* 13,650* 14,720* 13,420 12,230 12,230 10,200 9,390 8,640 7,340 6,790 6,280 5,820 5,400 4,980 4,620 4,980 3,850 3,480 3,170	Ib gle (deg., gle (deg., Boom Angle (deg.) 79.9 78.3 76.8 73.8 72.2 70.6 69.1 67.5 65.7 64.1 62.4 60.7 58.9 57.0 55.1 53.1	9,060* 8,700* 8,700* 8,420* 8,130* 7,890* 7,200* 7,200* 7,200* 7,200* 7,200* 7,200* 6,830* 6,500* 6,500* 6,507 5,970 5,530 5,130	Load Radius (ft) 45 50 55 60 65 70 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 125 130 135 140 125 130 125 100 125 100 125 100 125 100 125 100 125 100 125 100 125 100 125 100 125 100 125 100 125 100 105 100 115 100 125 100 115 100 115 100 115 100 115 100 115 100 115 100 115 100 115 100 115 100 115 100 115 100 100

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.

Fixed Jib Lift Capacity

Full Counterweight: 57,590 lbs Carbody Weight: 14,340

	160' E	Boom															
		30 f					t Jib				t Jib				t Jib		
Load Radius	1	Offset An	5 (5)	0		Offset An	igle (deg.)	0	1		igle (deg.)	0		Offset An	igle (deg.)) 30	Load Radius
(ft)	Boom Angle		Boom Angle	-	Boom Angle		-				Boom Angle	-			Boom Angle	-	(ft)
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	
45	79.2	24,000*															45
50 55	77.7	24,000* 22,350	78.8	19,640*	79.0 77.5	22,830* 22,000*			78.7	20,000*			79.6	18,000*			50 55
60	74.5	19,750	76.8	18,950*	76.0	20,030	79.5	15,120*	77.3	19,200*			79.0	17,800*			60
65	73.0	17,590	75.6	18,290	74.6	17,850	78.0	14,590*	75.9	18,030	80.0	11,440*	76.9	17,060*			65
70 75	71.4 69.7	15,760 14,100	74.0 72.3	16,400 14,680	73.1 71.5	16,000 14,320	76.4 74.8	14,100* 13,640*	74.5 72.9	16,180 14,500	78.5 77.0	11,060* 10,670*	75.6 74.2	16,090* 14,610	78.9	8,810*	70 75
80	68.1	12,780	70.7	13,290	70.0	12,980	73.2	13,220*	71.5	13,130	75.5	10,330*	72.8	13,240	77.5	8,530*	80
85	66.5	11,610	69.0	12,080	68.4	11,810	71.7	12,630	70.1	11,940	74.0	10,030*	71.4	12,050	76.1	8,240*	85
90 95	64.8 63.0	10,580 9,630	67.3 65.5	11,020 10,000	66.9 65.2	10,780 9,780	70.1 68.4	11,530 10,510	68.6 67.0	10,910 9,920	72.5 70.9	9,740* 9,450*	70.0 68.5	11,000 10,000	74.6 73.1	8,000* 7,760*	90 95
100	61.3	8,810	63.8	9,170	63.6	8,970	66.7	9,650	65.5	9,100	69.3	9,210*	67.1	9,190	71.6	7,530*	100
105	59.6	8,090	62.0	8,420	62.0	8,240	65.1	8,880	64.0	8,370	67.8	8,970*	65.7	8,440	70.2	7,310*	105
110 115	57.9 55.9	7,450 6,810	60.2 58.2	7,730 7,070	60.4 58.6	7,580 6,940	63.4 61.5	8,170 7,490	62.5 60.8	7,690 7,050	66.2 64.5	8,420 7,730	64.2 62.7	7,780 7,140	68.7 67.0	7,140* 6,940*	110 115
120	54.1	6,280	56.3	6,520	56.9	6,410	59.8	6,920	59.2	6,500	62.8	7,140	61.2	6,590	65.5	6,790*	120
125	52.2	5,770	54.4	5,990	55.1	5,900	58.0	6,390	57.6	6,010	61.1	6,610	59.7	6,080	63.9	6,610*	125
130 135	50.3 48.2	5,330 4,890	52.4	5,530	53.3 51.5	5,440 5,020	56.1 54.2	5,900 5,440	55.9 54.2	5,550 5,130	59.4 57.6	6,100 5,640	58.1 56.5	5,620 5,180	62.3 60.7	6,280 5,820	130 135
140	46.0	4,400			49.5	4,560	52.1	5,000	52.4	4,670	55.7	5,200	54.8	4,760	58.9	5,350	140
145	43.9	4,010			47.5	4,140			50.6	4,250	53.8	4,800	53.2	4,320	57.1	4,960	145
150 155	41.6 39.3	3,610 3,260			45.5 43.4	3,740 3,370			48.7 46.8	3,850 3,480	51.9	4,430	51.5 49.7	3,920 3,540	55.4 53.6	4,580 4,230	150 155
160	36.6	2,910			41.1	3,020			44.8	3,100			47.8	3,170	51.5	3,810	160
165	33.9	2,600			38.8	2,710			42.7	2,790			46.0	2,860			165
170		2			-			1	-				44.1	2,550		1	170
Reeves			4	2	-	2		I	2	2	-		4	2		1	Reeves
	170' E		. 11h		1	10.0	5. 11L			50 (t Jib				- 11L		
Load	<u> </u>	30 f Offset An					t Jib gle (deg.)				ale (deg.)				t Jib gle (deg.))	Load
Radius		0		0		0	<u> </u>	0		0		0		0		, 30	Radius
(ft)	Boom Angle	Rated Load		D ()	Room Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Poom Anglo		Deres Andele	Pated Load		Rated Load	(ft)
	(dog)		Boom Angle	Rated Load	DoomAngie		1 bootin rangee	I nated Load	boomingie	nateu Loau	Doom Angle	Rated Load	Boom Angle	naleu Luau	Boom Angle	I nated Load	
	(deg.)	(lbs)	Boom Angle (deg.)	Rated Load (lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	Rated Load (lbs)	(deg.)	(lbs)	Boom Angle (deg.)	(lbs)	
45	79.8	(lbs) 23,360*	-		(deg.)	(lbs)	-		-		-		-		-		45
50	79.8 78.3	(lbs) 23,360* 22,830*	(deg.)	(lbs)	(deg.) 79.6	(lbs) 20,800*	-		(deg.)	(lbs)	-		(deg.)	(lbs)	-		50
	79.8 78.3 76.8	(lbs) 23,360* 22,830* 22,150	-	(lbs) 19,860*	(deg.)	(lbs) 20,800* 20,000*	-	(lbs)	-		-		-		-		
50 55 60 65	79.8 78.3 76.8 75.3 73.8	(lbs) 23,360* 22,830* 22,150 19,550 17,370	(deg.) 79.4 77.9 76.4	(lbs) 19,860* 19,220* 18,120	(deg.) 79.6 78.1 76.7 75.3	(lbs) 20,800* 20,000* 19,200* 17,630	(deg.) 80.0 78.6	(lbs) 15,290* 14,770*	(deg.) 79.2 77.9 76.5	(lbs) 18,500* 17,800* 17,100*	(deg.)	(lbs)	(deg.) 80.0 78.8 77.5	(lbs) 17,000* 16,400* 15,800*	-		50 55 60 65
50 55 60 65 70	79.8 78.3 76.8 75.3 73.8 72.4	(lbs) 23,360* 22,830* 22,150 19,550 17,370 15,560	(deg.) 79.4 77.9 76.4 74.9	(lbs) 19,860* 19,220* 18,120 16,220	(deg.) 79.6 78.1 76.7 75.3 73.9	(lbs) 20,800* 20,000* 19,200* 17,630 15,800	(deg.) 80.0 78.6 77.1	(lbs) 15,290* 14,770* 14,300*	(deg.) 79.2 77.9 76.5 75.2	(lbs) 18,500* 17,800* 17,100* 15,980	(deg.) 79.1	(lbs) 11,170*	(deg.) 80.0 78.8 77.5 76.2	(lbs) 17,000* 16,400* 15,800* 15,200*	(deg.)	(lbs)	50 55 60 65 70
50 55 60 65	79.8 78.3 76.8 75.3 73.8	(lbs) 23,360* 22,830* 22,150 19,550 17,370	(deg.) 79.4 77.9 76.4	(lbs) 19,860* 19,220* 18,120 16,220 14,500	(deg.) 79.6 78.1 76.7 75.3	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130	(deg.) 80.0 78.6	(lbs) 15,290* 14,770* 14,300* 13,840*	(deg.) 79.2 77.9 76.5	(lbs) 18,500* 17,800* 17,100* 15,980 14,280	(deg.)	(lbs) 11,170* 10,800*	(deg.) 80.0 78.8 77.5	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980*	-		50 55 60 65 70 75
50 55 60 65 70 75 80 85	79.8 78.3 76.8 75.3 73.8 72.4 70.8	(lbs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880	(deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590	(deg.) 80.0 78.6 77.1 75.6 74.1 72.6	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750	(deg.) 79.1 77.6 76.2 74.8	(lbs) 11,170* 10,800* 10,490* 10,180*	(deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860	(deg.) 79.4 78.1 76.7	(lbs) 8,900* 8,610* 8,350*	50 55 60 65 70 75 80 85
50 55 60 65 70 75 80 85 90	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2	(lbs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820	(deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560	(deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690	(deg.) 79.1 77.6 76.2 74.8 73.4	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890*	(deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800	(deg.) 79.4 78.1 76.7 75.4	(lbs) 8,900* 8,610* 8,350* 8,110*	50 55 60 65 70 75 80 85 90
50 55 60 65 70 75 80 85 90 95	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5	(lbs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360 9,390	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810	(deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560	(deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610*	(deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810	(deg.) 79.4 78.1 76.7 75.4 73.9	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870*	50 55 60 65 70 75 80 85 90 95
50 55 60 65 70 75 80 85 90	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2	(lbs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820	(deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560	(deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690	(deg.) 79.1 77.6 76.2 74.8 73.4	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890*	(deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800	(deg.) 79.4 78.1 76.7 75.4	(lbs) 8,900* 8,610* 8,350* 8,110*	50 55 60 65 70 75 80 85 90
50 55 60 65 70 75 80 85 90 95 100 105 110	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7	(bs) 23,360* 22,830* 22,150 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,200	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9	(lbs) 19,860* 19,220* 16,220 14,500 13,090 11,880 10,820 9,810 8,970 8,220 7,530	(deg,) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,020 7,360	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 8,970 8,240	(deg,) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,220 7,560	(deg.) 79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250*	50 55 60 65 70 75 80 85 90 95 100 105 110
50 55 60 65 70 75 80 85 90 95 100 105 110 115	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9	(bs) 23,360* 22,830* 22,150 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,200 6,560	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 8,220 7,530 6,870	(deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,020 7,360 6,720	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 8,970 8,240 7,560	(deg,) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,920 7,560 6,920	(deg.) 79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050*	50 55 60 65 70 75 80 85 90 95 100 105 110 115
50 55 60 65 70 75 80 85 90 95 100 105 110 115 120	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7	(bs) 23,360* 22,830* 22,150 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,200 6,560 6,040	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3	(lbs) 19,860* 19,220* 16,220 14,500 13,090 11,880 10,820 9,810 8,970 8,920 7,530 6,870 6,300	(deg,) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,020 7,360 6,720 6,170	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310 6,720	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 8,970 8,240 7,560 6,960	(deg,) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,920 6,920 6,340	(deg.) 79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900*	50 55 60 65 70 75 80 85 90 95 100 105 110 115 120
50 55 60 65 70 75 80 85 90 95 100 105 110 115	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2	(bs) 23,360* 22,830* 22,150 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,200 6,560	(deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 8,220 7,530 6,870	(deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,020 7,360 6,720	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280 5,770 5,310	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 8,970 8,240 7,560	(deg,) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,970 8,920 6,920 6,920 6,920 6,340 5,860 5,370	(deg.) 79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900* 6,610 6,100	50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130
50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135	79.8 78.3 76.8 75.3 73.8 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	(bs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 6,560 6,640 5,550 5,070 4,560	(deg,) 79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 8,220 7,530 6,870 6,300 5,790	(deg,) 79.6 78.1 76.7 75.3 73.9 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	(lbs) 20,800* 20,000* 19,200* 17,630 14,130 12,760 11,590 10,560 9,560 8,750 8,750 8,750 8,750 8,720 6,720 6,170 5,680 5,220 4,730	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.4	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310 6,720 6,190 5,700 5,260	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280 5,770 5,310 4,870	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,360* 8,970 8,970 8,240 7,560 6,960 6,960 6,960 6,910 5,930 5,460	(deg) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,920 6,920 6,920 6,340 5,860 5,370 4,960	(deg.) 79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900* 6,610 6,100 5,640	50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135
50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140	79.8 78.3 76.8 75.3 73.8 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	(bs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,200 6,560 6,040 5,550 5,070 4,560 4,070	(deg,) 79.4 77.9 76.4 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	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 6,220 7,530 6,870 6,300 5,790 5,310	(deg,) 79.6 78.1 76.7 75.3 73.9 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	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,020 7,360 6,720 6,170 5,680 5,220 4,730 4,230	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.4 54.4	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310 6,720 6,190 5,700 5,260 4,820	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280 5,770 5,310 4,870 4,360	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5 57.7	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,360* 8,970 8,970 8,970 8,970 8,970 6,960 6,960 6,960 6,910 5,930 5,460 5,000	(deg,) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,220 7,560 6,920 6,920 6,340 5,860 5,370 4,960 4,450	(deg.) 79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2 60.5	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900* 6,610 6,100 5,640 5,180	50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135
50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135	79.8 78.3 76.8 75.3 73.8 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	(bs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 6,560 6,640 5,550 5,070 4,560	(deg,) 79.4 77.9 76.4 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	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 6,220 7,530 6,870 6,300 5,790 5,310	(deg,) 79.6 78.1 76.7 75.3 73.9 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	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,020 7,360 6,720 6,170 5,680 5,220 4,730	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.4	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310 6,720 6,190 5,700 5,260	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280 5,770 5,310 4,870	(deg.) 79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,360* 8,970 8,970 8,240 7,560 6,960 6,960 6,960 6,910 5,930 5,460	(deg,) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,920 6,920 6,920 6,340 5,860 5,370 4,960	(deg.) 79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 63.7 62.2	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900* 6,610 6,100 5,640	50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135
50 55 60 65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150	79.8 78.3 76.8 75.3 73.8 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 46.9 44.8 42.7	(bs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,870 7,870 7,870 7,870 6,660 6,040 5,550 5,070 4,560 4,070 3,650 3,280 2,930	(deg,) 79.4 77.9 76.4 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	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 6,220 7,530 6,870 6,300 5,790 5,310	(deg.) 79.6 78.1 76.7 75.3 73.9 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	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,750 8,750 8,750 8,750 8,750 8,750 6,720 6,720 6,720 6,720 6,720 6,720 6,720 4,730 4,230 3,810 3,410 3,060	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.4 54.4	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310 6,720 6,190 5,700 5,260 4,820	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 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	(bs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280 6,280 5,770 5,310 4,870 4,360 3,920 3,520 3,150	(deg.) 79.1 77.6 76.2 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	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 8,240 7,560 6,960 6,960 6,960 6,410 5,930 5,460 5,000 4,620	(deg) 80.0 78.8 77.5 76.2 74.9 73.6 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	(lbs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,220 7,560 6,920 6,9	(deg.) 79.4 78.1 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	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900* 6,610 6,100 5,640 5,180 4,780 4,380 3,960	50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150
50 55 60 65 70 75 80 85 90 95 100 105 110 125 130 125 130 135 140 145 155 160	79.8 78.3 76.8 75.3 73.8 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 46.9 44.8	(bs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,870 7,870 7,870 6,560 6,040 5,5550 5,0770 4,560 4,070 3,650 3,280	(deg,) 79.4 77.9 76.4 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	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 6,220 7,530 6,870 6,300 5,790 5,310	(deg.) 79.6 78.1 76.7 75.3 73.9 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	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,750 8,750 8,750 8,750 8,750 8,750 6,720 6,720 6,720 6,720 6,720 6,720 4,730 4,230 3,810 3,410	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.4 54.4	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310 6,720 6,190 5,700 5,260 4,820	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 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	(lbs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280 5,7770 5,310 4,870 4,360 3,920 3,520	(deg.) 79.1 77.6 76.2 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	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 8,970 8,970 8,240 7,560 6,960 6,410 5,930 5,460 5,930 5,460 5,000 4,620 4,160	(deg) 80.0 78.8 77.5 76.2 74.9 73.6 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 50.2	(bs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,220 7,560 6,92	(deg.) 79.4 78.1 76.7 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	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900* 6,610 6,100 5,640 5,180 4,780 4,380 3,960 3,540	50 55 60 65 70 75 80 85 90 95 100 105 110 125 130 135 140 145 150 155 160
50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150	79.8 78.3 76.8 75.3 73.8 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 46.9 44.8 42.7	(bs) 23,360* 22,830* 22,150 19,550 17,370 15,560 13,880 12,560 11,390 10,360 9,390 8,590 7,870 7,870 7,870 7,870 7,870 7,870 6,660 6,040 5,550 5,0770 4,560 4,070 3,650 3,280 2,930 2,570	(deg.) 79.4 77.9 76.4 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 52.8	(lbs) 19,860* 19,220* 18,120 16,220 14,500 13,090 11,880 10,820 9,810 8,970 6,220 7,530 6,870 6,300 5,790 5,310	(deg.) 79.6 78.1 76.7 75.3 73.9 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 44.2	(lbs) 20,800* 20,000* 19,200* 17,630 15,800 14,130 12,760 11,590 10,560 9,560 8,750 8,750 8,750 8,750 8,750 8,750 8,750 6,720 6,720 6,720 6,720 6,720 6,720 6,720 4,730 4,230 3,810 3,410 3,060	(deg,) 80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.4 54.4 52.6	(lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 12,450 11,370 10,330 9,470 8,680 8,000 7,310 6,720 6,190 5,700 5,260 4,820	(deg.) 79.2 77.9 76.5 75.2 73.8 72.4 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	(bs) 18,500* 17,800* 17,100* 15,980 14,280 12,940 11,750 10,690 9,720 8,880 8,150 7,470 6,830 6,280 6,280 5,770 5,310 4,870 4,360 3,920 3,520 3,150	(deg.) 79.1 77.6 76.2 74.8 73.4 73.4 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5 57.7 56.0 54.2 52.4	(lbs) 11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 8,970 8,970 8,240 7,560 6,960 6,410 5,930 5,460 5,930 5,460 5,000 4,620 4,160	(deg) 80.0 78.8 77.5 76.2 74.9 73.6 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	(bs) 17,000* 16,400* 15,800* 15,200* 13,980* 13,050 11,860 10,800 9,810 8,970 8,970 8,920 7,560 6,920 6,920 6,340 5,860 5,370 4,960 4,450 4,010 3,610 3,240 2,860 2,530	(deg.) 79.4 78.1 76.7 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 52.0	(lbs) 8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,250* 7,050* 6,900* 6,610 6,100 5,640 5,180 4,780 4,380 3,960	50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150

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

Fixed Jib Lift Capacity

Full Counterweight: 57,590 lbs Carbody Weight: 14,340

	180' E	Boom															
		30 f	t Jib			40 f	t Jib			50 f	ft J ib			60 1	ft Ji b		
Load		O set An	gle (deg.)			O set An	gle (deg.))		O set An	gle (deg.,)		O set Ar	ngle (deg.,)	Load
Radius	1	0	3	0	1	0	3	30	1	0	3	30	1	0	3	30	Radius
(ft)	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	Boom Angle	Rated Load	(ft)								
	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)	(deg.)	(lbs)									
50	78.9	19,770*															50
55	77.4	19,240*	79.9	19,060*	78.7	18,500*			79.7	17,000*							55
60	76.0	18,760*	78.5	18,580*	77.3	17,800*			78.4	16,400*			79.3	15,000*			60
65	74.6	17,190	77.1	17,960	76.0	17,100*	79.1	14,740*	77.1	15,800*			78.0	14,500*			65
70	73.2	15,360	75.6	16,070	74.7	15,630	77.7	14,460*	75.9	15,200*	79.6	11,300*	76.8	14,000*			70
75	71.7	13,710	74.1	14,350	73.2	13,950	76.3	14,020*	74.5	13,980*	78.2	10,930*	75.5	13,500*	79.9	8,990*	75
80 85	70.3 68.8	12,360	72.6 71.2	12,940	71.9 70.5	12,580	74.9	13,580	73.2 71.9	12,760	76.9	10,600*	74.3 73.0	12,870	78.6	8,700*	80 85
85 90	67.4	11,190 10,180	69.7	11,720 10,640	70.5 69.1	11,410 10,360	73.5 72.1	12,320 11,220	71.9	11,570 10,510	75.5 74.2	10,310* 10,030*	73.0 71.8	11,680 10,620	77.3 76.0	8,460 * 8,200*	85 90
90 95	67.4 65.8	9,190	69.7 68.1	9,630	67.6	9,390	72.1 70.5	10,180	69.2	9,520	74.2 72.7	9,740*	71.8 70.4	9,630	76.0 74.6	8,200* 7,950 *	90 95
100	64.3	8,390	66.5	9,030 8,790	66.2	9,390 8,570	69.1	9,320	67.8	9,320 8,700	71.4	9,500*	69.2	8 ,790	73.3	7,760*	100
105	62.8	7.670	65.0	8.040	64.8	7.820	67.6	8.550	66.5	7.950	70.0	8.810	67.9	8,040	73.5 72.0	7,530*	105
110	61.3	7,010	63.4	7,360	63.3	7,160	66.1	7,840	65.1	7,290	68.5	8,110	66.6	7,360	70.7	7,360*	110
115	59.6	6,370	61.7	6,670	61.8	6,520	64.5	7,160	63.6	6,630	67.0	7,400	65.2	6,720	69.2	7,160*	115
120	58.0	5,840	60.1	6,120	60.3	5,970	63.0	6,560	62.2	6,080	65.6	6,810	63.8	6,170	67.8	7,010*	120
125	56.4	5,310	58.4	5,590	58.8	5,460	61.4	6,040	60.8	5,570	64.1	6,260	62.5	5,660	66.4	6,480	125
130	54.7	4,780	56.7	5,110	57.2	4,960	59.8	5,550	59.3	5,090	62.6	5,770	61.1	5,180	65.0	5,970	130
135	53.0	4,270	55.0	4,580	55.6	4,450	58.2	5,090	57.8	4,580	61.1	5,310	59.7	4,670	63.6	5,480	135
140	51.2	3,790	53.1	4,070	53.9	3,940	56.4	4,580	56.2	4,070	59.4	4,850	58.2	4,160	62.0	5,020	140
145	49.4	3,370	51.3	3,610	52.3	3,520	54.7	4,120	54.7	3,630	57.8	4,380	56.8	3,720	60.5	4,620	145
150	47.6	2,970			50.6	3,130	53.0	3,680	53.1	3,240	56.2	3,940	55.3	3,320	59.0	4,160	150
155	45.7	2,600			48.8	2,750			51.5	2,860	54.5	3,520	53.8	2,930	57.5	3,740	155
160 165											52.7	3,100	52.2	2,550	55.8 54.1	3,320 2,950	160 165
170															54.1 52.4	2,600	170
Reeves		2	2)		2		1		1		1		1		2,000	Reeves
reeves	4	<u> </u>	4		4	<u> </u>		I		1		I				1	Reeves

Supplemental Data - Clamshell

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 2. Rated loads do not exceed 66% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - 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.
 - The crane must be leveled to within 1% on a firm supporting surface.
 - Must have 39,000 lbs (2) Counterweights installed, and without carbody weights.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- Weight of bucket, 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.
- Bucket weight must also be decreased according to operating cycle and bucket lowering height. Rated loads are determined by stability and boom strength During simultaneous operations of boom and swing,

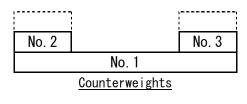
rapid acceleration of deceleration must be avoided. Do not attempt to cast the bucket while swinging or diagonal draw-cutting.

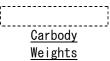
- 8. The boom should be erected over the front of the crawlers, not laterally.
- 9. Least stable position is over the side.
- 10. Maximum hoist load for number of reeving parts of line for hoist rope.

Maximum Load for Main Boom

No. of Parts of line	1
Maximum Loads (lbs)	16,000

- 11. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CONSTRUCTION MACHINERY CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- Assembling the Counterweight 39,000 lbs counterweight (No. 1 ~ No. 3) Without Carbody weights





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

Clamshell

Boom:

Welded lattice construction using tubular, high-tensile steel chords with pin connections between each section. Basic boom length: 40 ft (12.2 m) Max. boom length: 70 ft (21.3 m) Limit on clamshell bucket weight: 4,600 lbs (2,100 kg) Optional tagline: Hydraulic operated type and spring type.

Boom Component Chart:

Boom length ft (m)	Boom arrangement
40 (12.2)	Base-Tip
50 (15.2)	Base-A-Tip
60 (18.3)	Base-A-A-Tip, Base-B-Tip
70 (21.3)	Base-A-B-Tip

Base = Boom Base

Insert: A = 10 ft (3.05 m)

B = 20 ft (6.10 m)C = 40 ft (12.2 m)

Tip = Boom Tip

1. Figures represent maximum allowable capacity, and assume level, ground and ideal working conditions.

2. Capacities are calculated at 66% of the minimum tipping loads.

3. Capacities are maximum recommended by PCSA Standard #4. Allowances must be made by the user for such unfavorable conditions as a sort of uneven supporting surface, rapid cycle operations, or bucket.

4. The combined weight of the bucket and load must not exceed these capacities.

3 Counterweights (39,070 lbs) - Without Carbody weights - Crawlers in extended position.

4	0' Boo	m	5()' Boo	m	60)' Boo	m	70)' Boo	m
Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360 [°] Rated Load (lbs)
22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0	63.6 60.3 56.9 53.4 49.7 45.7 41.5 36.9 31.6 25.5	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 *	26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	64.2 61.6 58.9 56.2 53.3 50.4 47.3 44.1 40.6 36.9 32.8 28.2	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 *	30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0	64.5 62.4 60.2 58.0 55.7 53.3 50.9 48.3 45.7 42.9 40.0 36.9 33.5 29.8 25.6	16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 16,000 * 15,200 * 14,500 13,600 13,000 12,300 11,900	34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0 62.0 64.0 66.0	64.8 63.0 61.1 59.2 57.3 53.3 51.2 49.0 46.8 44.5 42.1 39.6 36.9 34.0 30.9 27.5	16,000 * 16,000 * 16,000 * 16,000 * 15,800 * 15,600 * 15,200 * 14,300 * 13,600 * 13,000 * 13,000 * 12,300 * 11,600 * 11,200 * 10,800 * 10,100 * 9,700 *

Supplemental Data - Barge

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
 - Machine shall be positively secured to prevent shifting.
 - Boom backstops are required for all boom length.
 - Gantry must be fully raised position for all operations.
 - Crawlers must be fully extended and be locked in position.
 - Must have 57,590 lbs (5) Counterweights fully installed.
 - Must have 14,340 lbs (2) Carbody weights fully installed.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- 7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	320		Not Ap	plicable	

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

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

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

Maximum Load for Main Boom

No. of Parts of line	1	2	4	5
Maximum Loads (lbs)	17,000	34,000	68,000	85,000

No. of Parts of line	6	7	8	9*	10*
Maximum Loads (lbs)	102,000	119,000	136,000	153,000	170,000
* 11					

[•] - Use auxiliary sheave.

Maximum Load for Auxiliary Sheave

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

14. Weight of recommended hook block.

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

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

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

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

Barge

5 Counterweights (57,590 lbs) - 2 Carbody weights (14,340 lbs) - Crawlers in extended position.

	40	Boo r	n				50	' Boo r	n				60	'Boo r	n		
				d Load (lk	ns)				60° Rated	l Load (lk	n.s)				60° Rated	d I oad (II	ns)
Load	Boom	0 Degree	1 Degree	2 Degree	3 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	3 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	3 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List
10.0	81.7	170,000 *				12.0	81.1	166,400 *				13.0	81.6	154,200 *			
11.0	80.3	170,000 *				13.0	79.9	154,400 *				14.0	80.7	143,800 *			
12.0 13.0	78.8 77.4	266,600 * 154,600 *				14.0	78.8 77.6	144,000 * 134,900 *				15.0	79.7 78.7	134,700 * 126,700 *			
14.0	75.9	134,000				15.0 16.0	76.4	126,900 *				16.0 17.0	77.7	119,500 *			
15.0	74.4	135,100*	135,100*			17.0	75.2	119,700 *				18.0	76.8	113,000 *			
16.0	72.9	127,100 *	127,100 *			18.0	74.0	113,200 *	105,400			19.0	75.8	105,460			
17.0 18.0	71.4 69.9	119,900 * 113,400 *	119,900 * 113,400 *	105,100 100,200		19.0 20.0	72.8 71.6	105,660 97,350	97,100 90,500			20.0 22.0	74.8 72.8	97,130 83,790	89,000 77,500		
19.0	68.3	105,820	98,900	93,300		22.0	69.2	84,010	78,800	73,500		24.0	70.8	73,560	68,500	63,600	
20.0	66.7	97,500	92,100	86,400		24.0	66.7	73,810	69,700	65,500		26.0	68.7	65,490	61,400	57,900	51,000
22.0	63.6	84,190	80,100	75,700	71,700	26.0	64.2	65,760	62,400	59,000	56,100	28.0	66.6	58,970	55,600	52,700	49,100
24.0 26.0	60.3 56.9	74,000 65,980	70,800 63,300	67,300 60,500	64,700 58,100	28.0 30.0	61.6 58.9	59,230 53,850	56,400 51,500	53,700 49,200	51,400 47,300	30.0 32.0	64.5 62.4	53,570 49,030	50,700 46,600	48,200 44,500	45,800 42,500
28.0	53.4	59,400	57,200	55,000	53,000	32.0	56.2	49,310	47,300	45,500	43,700	34.0	60.2	45,170	43,100	41,000	39,400
30.0	49.7	54,100	52,300	50,400	48,700	34.0	53.3	45,480	43,700	42,200	40,700	36.0	58.0	41,840	40,000	38,400	36,900
32.0 34.0	45.7 41.5	49,580 45,740	48,100 44,500	46,500 43,200	45,100 42,100	36.0 38.0	50.4 47.3	42,150 39,280	40,600 37,900	39,300 36,800	38,100 35,500	38.0 40.0	55.7 53.3	38,950 36,410	37,300 35,000	35,800 33,900	34,700 32,700
36.0	41.5 36.9	45,740	44,500 41,400	45,200	42,100 39,400	40.0	47.5	39,280	37,900	36,800 34,800	33,800	40.0 45.0	55.5 47.0	31,230	30,200	29,300	28,500
		,	,	,					,	,	,	50.0	40.0	27,290	26,400	25,900	25,300
Ree	eves	10	8	7	5	Ree	eves	10	7	5	4	Ree	eves	10	6	4	4
	70	Boo r	n				80	' Boo r	n				90	'Boo r	n		
		3															
Load Radius	-	-	60° Rated	d Load (lk	os)			3	60° Rated	l Load (lk	os)			3	60° Rated	d Load (II	os)
	Boom Angle	0 Degree	1 Degree	2 Degree	3 Degree	Load Radius	Boom Angle	0 Degree	1 Degree	2 Degree	3 Degree	Load Radius	Boom Angle	0 Degree	1 Degree	2 Degree	3 Degree
(ft)	Boom Angle (deg.)					Load Radius (ft)	Boom Angle (deg.)				· ·	Load Radius (ft)	Boom Angle (deg.)				
(ft) 14.0	Angle (deg.) 82.0	0 Degree Machine List 143,600 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 16.0	Angle (deg.) 81.6	0 Degree Machine List 126,300 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 17.0	Angle (deg.) 81.9	0 Degree Machine List 118,820 *	1 Degree Machine	2 Degree Machine	3 Degree Machine
(ft) 14.0 15.0	Angle (deg.) 82.0 81.2	0 Degree Machine List 143,600 * 134,500 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 16.0 17.0	Angle (deg.) 81.6 80.8	0 Degree Machine List 126,300 * 119,100 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	<i>Radius</i> (<i>ft</i>) 17.0 18.0	Angle (deg.) 81.9 81.2	0 Degree Machine List 118,820 * 112,400 *	1 Degree Machine	2 Degree Machine	3 Degree Machine
(ft) 14.0	Angle (deg.) 82.0	0 Degree Machine List 143,600 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 16.0	Angle (deg.) 81.6	0 Degree Machine List 126,300 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 17.0	Angle (deg.) 81.9	0 Degree Machine List 118,820 *	1 Degree Machine	2 Degree Machine	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7	0 Degree Machine 143,600 * 134,500 * 126,500 * 119,300 * 112,800 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 16.0 17.0 18.0 19.0 20.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 17.0 18.0 19.0 20.0 22.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480	1 Degree Machine	2 Degree Machine	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0 19.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 78.7 77.8	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230	1 Degree Machine	2 Degree Machine	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.8	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320	1 Degree Machine List	2 Degree Machine	3 Degree Machine	Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140	1 Degree Machine List	2 Degree Machine	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0 19.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 78.7 77.8	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230	1 Degree Machine	2 Degree Machine	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6 71.9	0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 105,400 97,060 83,700 73,470 65,380	1 Degree Machine List 67,700 60,600	2 Degree Machine List	3 Degree Machine	Padius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260	1 Degree Machine List 60,000 54,200 49,500	2 Degree Machine List	3 Degree Machine	Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Angle (deg.) 81.9 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580	1 Degree Machine List 53,700 49,000 45,000	2 Degree Machine List 41,700	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.0 75.3 73.6 71.9 70.1	0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840	1 Degree Machine List 67,700 60,600 54,900	2 Degree Machine List 51,600	3 Degree Machine List	Padius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260 48,690	1 Degree Machine List 60,000 54,200 49,500 45,500	2 Degree Machine List 42,800	3 Degree Machine List	Padius 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700	1 Degree Machine List 53,700 49,000 45,000 41,700	2 Degree Machine List 41,700 38,900	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 73.6 71.9	0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 105,400 97,060 83,700 73,470 65,380	1 Degree Machine List 67,700 60,600	2 Degree Machine List	3 Degree Machine	Padius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 58,680 53,260	1 Degree Machine List 60,000 54,200 49,500	2 Degree Machine List	3 Degree Machine List 35,800	Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Angle (deg.) 81.9 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580	1 Degree Machine List 53,700 49,000 45,000	2 Degree Machine List 41,700 38,900 36,300	3 Degree Machine
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 24.0 28.0 30.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.0 75.3 73.6 71.9 70.1 68.4	0 Degree Machine List 143,600 * 134,500 * 126,500 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430	1 Degree Machine List 67,700 60,600 54,900 50,200	2 Degree Machine List 51,600 47,300	3 Degree Machine List 42,400	Padius 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1	O Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 65,230 65,230 65,230 58,680 53,260 48,690 44,840 41,490 38,580	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000	2 Degree Machine List 42,800 39,700 36,900 34,600	3 Degree Machine List	Padius 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6	0 Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100 34,000	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100	3 Degree Machine List 29,900
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6 64.8 63.0	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700	3 Degree Machine List 42,400 40,900 38,400 35,900	Padius 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 75.7 74.2 75.7 74.2 69.7 68.1 66.6 65.0 63.4	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 39,000 36,500 34,300	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600	3 Degree Machine List 35,800 34,500 32,700 30,900	Padius (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 45.0	Angle (deg.) (de	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700	3 Degree Machine List 29,900 26,400
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.0 75.3 77.0 75.3 77.0 75.3 77.0 75.3 77.0 75.3 73.6 64.4 66.6 64.8 63.0 61.1	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680 38,800	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900	Padius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 75.7 71.2 69.7 68.1 66.6 65.0 63.4 59.3	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020 30,820	1 Degree Machine List 60,000 54,200 49,500 42,000 39,000 36,500 34,300 29,500	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000	Padius (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 45.0 50.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670	1 Degree Machine List 53,700 49,000 45,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300	3 Degree Machine List 29,900 26,400 23,400
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Angle (deg.) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6 64.8 63.0	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 73,470 65,380 58,840 53,430 48,890 45,030 41,680	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700	3 Degree Machine List 42,400 40,900 38,400 35,900	Padius 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 75.7 74.2 75.7 74.2 69.7 68.1 66.6 65.0 63.4	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 58,680 53,260 48,690 44,840 41,490 38,580 36,020	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 39,000 36,500 34,300	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600	3 Degree Machine List 35,800 34,500 32,700 30,900	Padius 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 45.0	Angle (deg.) (de	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700	3 Degree Machine List 29,900 26,400 23,400 20,800
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 45.0 50.0	Angle (deg) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 65,380 58,840 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700 24,600	Padius (ft) Padius (ft) 16.0 17.0 17.0 18.0 19.0 20.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 36.0 38.0 40.0 45.0 55.0 60.0 60.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 69.7 68.1 65.0 63.4 55.0 50.5 50.5 50.5 50.5	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 65,230 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 36,500 34,300 29,500 25,700 22,800 20,400	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000 19,900	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Padius (t) Padius (t) 17.0 18.0 18.0 19.0 20.0 20.0 24.0 22.0 26.0 30.0 30.0 34.0 36.0 38.0 40.0 55.0 55.0 60.0 65.0 65.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100 18,100	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600	3 Degree Machine List 29,900 26,400 23,400 20,800 18,700 17,000
(f) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 30.0 32.0 34.0 36.0 34.0 36.0 34.0 36.0 35.0 55.0	Angle (deg) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.8 77.0 75.3 73.6 63.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 65,380 53,430 45,380 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700 24,600 21,900	Padius (ft) Padius (ft) 16.0 17.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 36.0 38.0 40.0 45.0 50.0 55.0 55.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 66.6 65.0 63.4 59.3 55.0 50.5	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 39,000 36,500 34,300 29,500 25,700 22,800	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000 23,800 21,300	Padius (t) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 55.0 60.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	1 Degree Machine List 53,700 49,000 45,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100 18,100 16,400	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	3 Degree Machine List 29,900 26,400 23,400 20,800 18,700 17,000 15,600
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Angle (deg) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.0 75.3 73.6 71.9 70.1 68.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 65,380 58,840 65,380 58,840 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700 24,600	Padius (ft) Padius (ft) 16.0 17.0 17.0 18.0 19.0 20.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 36.0 38.0 40.0 45.0 55.0 60.0 60.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 69.7 68.1 65.0 63.4 55.0 50.5 50.5 50.5 50.5	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 36,500 34,300 29,500 25,700 22,800 20,400	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000 19,900	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Padius (t) Padius (t) 17.0 18.0 18.0 19.0 20.0 20.0 24.0 22.0 26.0 30.0 30.0 34.0 36.0 38.0 40.0 55.0 55.0 60.0 65.0 65.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870	1 Degree Machine List 53,700 49,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100 18,100	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600	3 Degree Machine List 29,900 26,400 23,400 20,800 18,700 17,000
(f) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 20.0 24.0 26.0 28.0 30.0 30.0 30.0 30.0 30.0 34.0 34.0 34.0 34.0 34.0 36.0 35.0 45.0 55.0	Angle (deg) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.8 77.0 75.3 73.6 63.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 65,380 53,430 45,380 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700 24,600 21,900	Padius (ft) Padius (ft) 16.0 17.0 17.0 18.0 19.0 20.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 36.0 38.0 40.0 45.0 55.0 60.0 60.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 69.7 68.1 65.0 63.4 55.0 50.5 50.5 50.5 50.5	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 65,230 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 36,500 34,300 29,500 25,700 22,800 20,400	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000 19,900	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Padius (t) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 55.0 60.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	1 Degree Machine List 53,700 49,000 45,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100 18,100 16,400	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	3 Degree Machine List 29,900 26,400 23,400 20,800 18,700 17,000 15,600
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Angle (deg) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.8 77.0 75.3 73.6 63.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 65,380 53,430 45,380 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700 24,600 21,900	Padius (ft) Padius (ft) 16.0 17.0 17.0 18.0 19.0 20.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 36.0 38.0 40.0 45.0 55.0 60.0 60.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 69.7 68.1 65.0 63.4 55.0 50.5 50.5 50.5 50.5	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 65,230 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 36,500 34,300 29,500 25,700 22,800 20,400	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000 19,900	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Padius (t) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 55.0 60.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	1 Degree Machine List 53,700 49,000 45,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100 18,100 16,400	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	3 Degree Machine List 29,900 26,400 23,400 20,800 18,700 17,000 15,600
(ft) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Angle (deg) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.8 77.0 75.3 73.6 63.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 65,380 53,430 45,380 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700 24,600 21,900	Padius (ft) Padius (ft) 16.0 17.0 17.0 18.0 19.0 20.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 36.0 38.0 40.0 45.0 55.0 60.0 60.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 69.7 68.1 65.0 63.4 55.0 50.5 50.5 50.5 50.5	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 36,500 34,300 29,500 25,700 22,800 20,400	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000 19,900	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Padius (t) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 34.0 36.0 38.0 40.0 55.0 60.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	1 Degree Machine List 53,700 49,000 45,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100 18,100 16,400	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	3 Degree Machine List 29,900 26,400 23,400 20,800 18,700 17,000 15,600
(t) 14.0 15.0 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 30.0 30.0 34.0 34.0 34.0 34.0 34.0 36.0 30.0 3	Angle (deg) 82.0 81.2 80.3 79.5 78.7 77.8 77.8 77.8 77.0 75.3 73.6 63.4 66.6 64.8 63.0 61.1 59.2 54.3 49.0 43.3	0 Degree Machine List 143,600 * 134,500 * 126,500 * 119,300 * 112,800 * 105,400 97,060 83,700 65,380 53,430 45,380 53,430 48,890 45,030 41,680 38,800 36,240 31,040 27,070 23,960	1 Degree Machine List 67,700 60,600 54,900 50,200 46,100 42,500 39,500 36,900 34,800 29,900 26,100 23,100	2 Degree Machine List 51,600 47,300 43,700 40,500 37,700 35,000 33,300 28,800 25,300 22,500	3 Degree Machine List 42,400 40,900 38,400 35,900 33,900 31,900 27,700 24,600 21,900	Pacifius 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 65.0	Angle (deg.) 81.6 80.8 80.1 79.4 78.6 77.2 75.7 74.2 72.7 71.2 69.7 68.1 69.7 68.1 65.0 63.4 55.0 50.5 50.5 50.5 50.5	0 Degree Machine List 126,300 * 119,100 * 112,600 * 105,290 96,930 83,550 73,320 65,230 65,230 53,260 48,690 44,840 41,490 38,580 36,020 30,820 26,820 23,670 21,140	1 Degree Machine List 60,000 54,200 49,500 45,500 42,000 36,500 34,300 29,500 25,700 22,800 20,400	2 Degree Machine List 42,800 39,700 36,900 34,600 32,600 28,200 24,700 22,000 19,900	3 Degree Machine List 35,800 34,500 32,700 30,900 27,000 23,800 21,300 19,200	Padius 17.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.9 81.2 80.6 79.9 78.6 77.3 76.0 74.7 73.4 72.0 70.7 69.3 68.0 66.6 63.0 59.4 55.6 51.6 47.4 42.9	O Degree Machine List 118,820 * 112,400 * 105,220 96,870 83,480 73,230 65,140 58,570 53,150 48,580 44,700 41,380 38,440 35,890 30,660 26,670 23,520 20,960 18,870 17,100	1 Degree Machine List 53,700 49,000 45,000 45,000 41,700 38,700 36,100 34,000 29,300 25,500 22,500 20,100 18,100 16,400	2 Degree Machine List 41,700 38,900 36,300 34,200 32,100 27,700 24,300 21,600 19,400 17,600 16,000	3 Degree Machine List 29,900 26,400 23,400 20,800 18,700 17,000 15,600

Refer to notes on page 31.

Barge

5 Counterweights (57,590 lbs) - 2 Carbody weights (14,340 lbs) - Crawlers in extended position.

	100)' Boo	m				110)' Boo	m				120)' Boo	m		
		3	60° Rateo	d Load (lk	os)			3	60° Rated	d Load (lk	os)			3	60° Rated	d Load (lk	os)
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List
19.0	81.5	101,850 *	Du	Doc	Du	20.0	81.8	92,590	Liot	Liot	Liot	22.0	81.5	80,680 *	Du	Doc	Lia
20.0	80.9	96,800				22.0	80.7	83,260				24.0	80.5	72,950			
22.0	79.8	83,400				24.0	79.7	73,010				26.0	79.6	64,810			
24.0	78.6	73,120				26.0	78.6	64,900				28.0	78.6	58,240			
26.0 28.0	77.4 76.3	65,010 58,440				28.0 30.0	77.5 76.5	58,330 52,880				30.0 32.0	77.6 76.6	52,800 48,230			
28.0 30.0	76.5 75.1	58,440 53,020				32.0	76.5 75.4	48,320				34.0	75.6	48,230 44,330			
32.0	73.9	48,450	44,500			34.0	74.3	44,440	40,600			36.0	74.7	40,980	37,600		
34.0	72.7	44,550	41,100			36.0	73.2	41,090	37,800			38.0	73.7	38,050	35,100		
36.0	71.5	41,200	38,200	35,700		38.0	72.1	38,160	35,300			40.0	72.7	35,470	33,000		
38.0	70.3	38,290	35,600	33,700		40.0	71.0	35,600	33,200			45.0	70.1	30,220	28,300	26,200	
40.0	69.0	35,730	33,500	31,600	25.000	45.0	68.2	30,350	28,500	22.500	22.100	50.0	67.6	26,210	24,600	23,100	10.400
45.0 50.0	65.9 62.7	30,480 26,470	28,900 25,100	27,300 24,000	25,800 22,800	50.0 55.0	65.4 62.5	26,340 23,170	24,900	23,500 20,800	22,100 19,900	55.0 60.0	65.0 62.3	23,010 20,450	21,600 19,300	20,500	19,400 17,400
55.0	59.5	23,320	22,200	24,000	20,200	60.0	59.5	20,610	21,900 19,600	18,700	17,800	65.0	59.5	18,320	17,400	18,300 16,500	15,700
60.0	56.1	20,740	19,800	19,100	18,200	65.0	56.4	18,490	17,700	16,900	16,100	70.0	56.7	16,530	15,700	14,900	14,400
65.0	52.5	18,620	17,800	17,200	16,500	70.0	53.2	16,710	16,000	15,300	14,800	75.0	53.8	15,010	14,300	13,700	13,200
70.0	48.8	16,860	16,200	15,600	15,000	75.0	49.9	15,210	14,500	13,900	13,500	80.0	50.8	13,710	13,000	12,700	12,100
75.0	44.8	15,360	14,800	14,300	13,900	80.0	46.4	13,910	13,300	12,900	12,500	85.0	47.6	12,580	12,000	11,600	11,200
80.0	40.6	14,080	13,600	13,100	12,900	85.0	42.6	12,800	12,300	11,900	11,600	90.0	44.3	11,590	11,100	10,700	10,400
85.0	35.9	12,980	12,600	12,200	12,000	90.0 95.0	38.6 34.2	11,830 10,970	11,400 10,600	11,000	10,800 10,100	95.0 100.0	40.7 36.9	10,730	10,300 9,500	9,900	9,600
						95.0	54.Z	10,970	10,000	10,300	10,100	100.0	30.9	9,960 9,280	9,500	9,300 8,700	8,900 8,500
Ree	ves	6	4	4	2	Ree	eves	6	4	2	2	Ree	eves	5	4	2	2
	130)' Boo	m				140)' Boo	m				150)' Boo	m		
				d Load (lk	. <u> </u>		_		60° Rated	· · ·	<u>, </u>		_		60° Rated	· · ·	,
Load Radius (ft)	Boom Angle (deg.)	3 0 Degree Machine List	60° Rateo 1 Degree Machine List	d Load (Ik 2 Degree Machine List	os) 3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	3 0 Degree Machine List	60° Rateo 1 Degree Machine List	d Load (lk 2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	3 0 Degree Machine List	60° Rateo 1 Degree Machine List	d Load (Ik 2 Degree Machine List	3 Degree Machine List
Radius (ft) 24.0	Angle (deg.) 81.3	0 Degree Machine List 71,200 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 24.0	Angle (deg.) 81.9	0 Degree Machine List 61,720 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 26.0	Angle (deg.) 81.7	0 Degree Machine List 52,680 *	1 Degree Machine	2 Degree Machine	3 Degree Machine
Padius (ft) 24.0 26.0	Angle (deg.) 81.3 80.4	0 Degree Machine List 71,200 * 64,610	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 24.0 26.0	Angle (deg.) 81.9 81.1	0 Degree Machine List 61,720 * 60,840	1 Degree Machine	2 Degree Machine	3 Degree Machine	<i>Padius</i> (<i>ft</i>) 26.0 28.0	Angle (deg.) 81.7 80.9	0 Degree Machine List 52,680 * 51,800 *	1 Degree Machine	2 Degree Machine	3 Degre Machine
Radius (ft) 24.0 26.0 28.0	Angle (deg.) 81.3 80.4 79.5	0 Degree Machine List 71,200 * 64,610 58,020	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 24.0 26.0 28.0	Angle (deg.) 81.9 81.1 80.2	0 Degree Machine List 61,720 * 60,840 57,980	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 26.0 28.0 30.0	Angle (deg.) 81.7 80.9 80.1	0 Degree Machine List 52,680 * 51,800 * 51,140 *	1 Degree Machine	2 Degree Machine	3 Degre Machine
Padius (ft) 24.0 26.0 28.0 30.0	Angle (deg.) 81.3 80.4 79.5 78.6	O Degree Machine List 71,200 * 64,610 58,020 52,570	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0	Angle (deg.) 81.9 81.1 80.2 79.4	0 Degree Machine List 61,720 * 60,840 57,980 52,530	1 Degree Machine	2 Degree Machine	3 Degree Machine	Padius (ft) 26.0 28.0 30.0 32.0	Angle (deg.) 81.7 80.9 80.1 79.3	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810	1 Degree Machine	2 Degree Machine	3 Degre Machine
Padius (ft) 24.0 26.0 28.0	Angle (deg.) 81.3 80.4 79.5	0 Degree Machine List 71,200 * 64,610 58,020	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 24.0 26.0 28.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6	0 Degree Machine List 61,720 * 60,840 57,980	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 26.0 28.0 30.0	Angle (deg.) 81.7 80.9 80.1	0 Degree Machine List 52,680 * 51,800 * 51,140 *	1 Degree Machine	2 Degree Machine	3 Degre Machine
Padius 24.0 26.0 28.0 30.0 32.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950	1 Degree Machine	2 Degree Machine	3 Degree Machine	Padius (ft) 26.0 28.0 30.0 32.0 34.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890	1 Degree Machine	2 Degree Machine	3 Degre Machine
Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830	1 Degree Machine List 34,600	2 Degree Machine	3 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030	1 Degree Machine	2 Degree Machine	3 Degre Machine
Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250	1 Degree Machine List 34,600 32,500	2 Degree Machine	3 Degree Machine	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160	1 Degree Machine	2 Degree Machine	3 Degree Machine	Padius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760	1 Degree Machine List	2 Degree Machine	3 Degre Machine
Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000	1 Degree Machine List 34,600 32,500 27,800	2 Degree Machine List	3 Degree Machine	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1	O Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910	1 Degree Machine List	2 Degree Machine List	3 Degree Machine	Padius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720	1 Degree Machine List 23,700	2 Degree Machine List	3 Degre Machine
Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250	1 Degree Machine List 34,600 32,500	2 Degree Machine	3 Degree Machine	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160	1 Degree Machine	2 Degree Machine	3 Degree Machine	Padius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760	1 Degree Machine List	2 Degree Machine	3 Degre Machin
Padius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970	1 Degree Machine List 34,600 32,500 27,800 24,200	2 Degree Machine List 22,600	3 Degree Machine	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9	O Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880	1 Degree Machine List 24,100	2 Degree Machine List 22,300	3 Degree Machine	Padius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530	1 Degree Machine List 23,700 20,900	2 Degree Machine List	3 Degre Machin List
Badius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 55.0 60.0 65.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1	0 Degree Machine List 71,200 * 64,610 55,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100	22,600 22,600 20,100 17,900 16,100	3 Degree Machine List 16,800 15,400	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960	1 Degree Machine List 24,100 21,200 18,800 16,800	22,300 19,700 15,800	3 Degree Machine List 15,700 14,900	Padius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000	2 Degree Machine List 19,200 17,400 15,600 14,100	3 Degre Machim List 13,700 13,100
Bacilius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400	22,600 20,100 17,900 16,100 14,600	3 Degree Machine List 16,800 15,400 14,000	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0	O Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150	1 Degree Machine List 24,100 21,200 18,800 16,800 15,100	22,300 19,700 15,800 14,400	3 Degree Machine List 15,700 14,900 13,600	Padius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 74.2 74.2 70.2 68.2 66.1 64.0 61.8	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800	3 Degre Machinu List 13,700 13,100 12,100
Participa 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 65.0 70.0 75.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000	22,600 20,100 17,900 16,100 13,200	3 Degree Machine List 16,800 15,400 14,000 12,800	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630	1 Degree Machine List 24,100 21,200 18,800 16,800 15,100 13,700	22,300 19,700 15,800 14,400 13,100	3 Degree Machine List 15,700 14,900 13,600 12,400	Pacifius 26.0 28.0 30.0 32.0 34.0 36.0 34.0 36.0 36.0 36.0 50.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700	3 Degre Machinu List 13,700 13,100 12,100 11,100
Participa 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 70.0 75.0 80.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000 12,800	22,600 20,100 17,900 16,100 14,600 13,200 12,100	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6 57.2	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630 13,310	1 Degree Machine List 24,100 21,200 18,800 16,800 15,100 13,700 12,500	22,300 19,700 15,800 14,400 13,100 12,000	3 Degree Machine List 15,700 14,900 13,600 12,400 11,400	Pacifius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600	3 Degre Machiny List 13,700 13,100 12,100 11,100 10,200
Participa 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 65.0 70.0 75.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200	3 Degree Machine List 16,800 15,400 14,000 12,800	Padius 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 59.6	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630	1 Degree Machine List 24,100 21,200 18,800 16,800 15,100 13,700	22,300 19,700 15,800 14,400 13,100	3 Degree Machine List 15,700 14,900 13,600 12,400	Pacifius 26.0 28.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700	3 Degre Machiny List 13,700 13,100 12,100 11,100 10,200 9,400
Padjus (ft) 24.0 28.0 30.0 32.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000 12,800 11,700	22,600 20,100 17,900 16,100 14,600 13,200 12,100	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700	Pactius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 64.3 62.0 59.6 57.2 54.7	0 Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630 13,310 12,160	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000	15,700 14,900 13,600 12,400 11,400 10,600	Pacifius 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300 10,400	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800	3 Degre Machine
Participa 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 75.0 80.0 85.0 90.0 95.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6	0 Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 30,000 25,970 22,790 20,210 18,070 16,290 14,770 13,470 12,320 11,330	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000 12,800 11,700 10,700	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700 10,000	Pactius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 36.0 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 66.5 64.3 62.0 59.6 57.2 54.7 52.2 49.5 46.8	O Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 25,880 22,680 20,100 17,960 16,150 14,630 13,310 12,160 11,170	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000	15,700 14,900 13,600 12,400 11,400 10,600 9,700	Pacifius 26.0 28.0 28.0 30.0 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 95.0	Angle (deg.) 81.7 80.9 80.1 77.8 77.8 77.0 77.2 70.2 74.2 70.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110	1 Degree Machine List 23,700 20,900 18,600 15,000 13,700 12,300 11,300 10,400 9,500	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100	3 Degre Machiny List 13,700 13,100 12,100 11,100 10,200 9,400 8,600
Particus (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 67.0 64.6 67.0 64.6 67.0 54.3 51.5 48.6 45.6 42.4 39.0	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990	1 Degree Machine List 34,600 32,500 27,800 24,200 17,100 15,400 14,000 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Particus (ft) 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 85.0 90.0 95.0 100.0 105.0	Angle (deg.) 81.9 81.1 80.2 79.4 77.7 76.9 76.0 75.2 73.1 70.9 66.7 64.3 62.0 59.6 57.2 54.7 52.2 49.5 46.8 43.9	O Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100 9,400 8,700 8,100	3 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,900 8,300 7,700	Pacifius 26.0 28.0 28.0 30.0 32.0 34.0 34.0 38.0 40.0 45.0 55.0 60.0 65.0 77.0 75.0 80.0 85.0 99.0 95.0 100.0 105.0 110.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 74.2 74.2 66.2 66.2 66.2 66.2 65.4 55.6 55.1 52.7 50.3 47.7 45.1	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300 10,400 9,500 8,700 8,700 8,700	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200	3 Degre Machin List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000
Particus 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 75.0 80.0 85.0 90.0 95.0 100.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 69.4 67.0 64.6 62.1 59.6 57.0 54.3 51.5 48.6 45.6 42.4	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670	1 Degree Machine List 34,600 32,500 27,800 24,200 21,300 19,000 17,100 15,400 14,000 12,800 11,700 10,700 9,900 9,200	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600	Particus (ft) 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 105.0 110.0	Angle (deg) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 57.2 55.4 57.2 54.7 52.2 46.8 43.9 40.8	O Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100 9,400 8,700 8,100 7,500	3 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,900 8,900 8,300 7,700 7,200	Pacifius 26.0 28.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 36.0 55.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 905.0 105.0 110.0 115.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 72.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 55.7 55.1 55.7 50.3 47.7 45.1 42.3	0 Degree Machine List 52,680 * 51,140 * 47,810 43,890 40,540 37,610 35,030 29,760 25,720 19,950 17,810 16,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000 7,420	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300 10,400 9,500 8,700 8,700 8,700 8,700 7,100	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700	3 Degret Machin List 13,700 13,100 12,100 10,200 9,400 8,600 8,600 7,600 7,000 6,500
Particus (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 67.0 64.6 67.0 64.6 67.0 54.3 51.5 48.6 45.6 42.4 39.0	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990	1 Degree Machine List 34,600 32,500 27,800 24,200 17,100 15,400 14,000 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Particus (ft) 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 90.0 95.0 100.0 105.0 115.0	Angle (deg.) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 64.3 62.0 59.6 57.2 54.7 54.2 54.7 52.2 46.8 43.9 40.8 37.6	O Degree Machine List 61,720 * 60,840 57,980 52,530 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630 13,310 10,290 9,500 8,790 8,170 7,620	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100 9,400 8,700 8,100 7,500 7,000	3 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,900 8,300 7,700 7,200 6,800	Pacifius 26.0 28.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 77.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 55.7 55.1 55.7 50.3 47.7 45.1 42.3 39.4	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 11,100 9,320 8,640 8,000 7,420 6,920	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300 10,400 9,500 8,700 8,700 8,100 7,500 7,100 6,600	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300	3 Degre Machinu List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100
dius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 67.0 64.6 67.0 64.6 67.0 54.3 51.5 48.6 45.6 42.4 39.0	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990	1 Degree Machine List 34,600 32,500 27,800 24,200 17,100 15,400 14,000 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Particus (ft) 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 105.0 110.0	Angle (deg) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 66.5 64.3 62.0 57.2 55.2 54.7 52.2 46.8 43.9 40.8	O Degree Machine List 61,720 * 60,840 57,980 52,530 47,950 44,040 40,670 37,740 35,160 29,910 25,880 20,100 17,960 16,150 14,630 13,310 12,160 11,170 10,290 9,500 8,790 8,170	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500 10,600 9,800 9,000 8,300 7,700	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100 9,400 8,700 8,100 7,500	3 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,900 8,900 8,300 7,700 7,200	Pacifius 26.0 28.0 28.0 30.0 32.0 34.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 77.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0 112.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 55.1 52.7 55.1 52.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000 7,420 6,920 6,450	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300 10,400 9,500 8,700 8,700 8,700 8,700 7,100	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300 5,800	3 Degre Machin List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,600 7,600 7,000 6,500 6,100 5,700
dius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 67.0 64.6 67.0 64.6 67.0 54.3 51.5 48.6 45.6 42.4 39.0	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990	1 Degree Machine List 34,600 32,500 27,800 24,200 17,100 15,400 14,000 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Particus (ft) 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 90.0 95.0 100.0 105.0 115.0	Angle (deg) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 64.3 62.0 59.6 57.2 54.7 54.2 54.7 52.2 46.8 43.9 40.8 37.6	O Degree Machine List 61,720 * 60,840 57,980 52,530 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630 13,310 10,290 9,500 8,790 8,170 7,620	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100 9,400 8,700 8,100 7,500 7,000	3 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,900 8,300 7,700 7,200 6,800	Pacifius 26.0 28.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 77.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 55.7 55.1 55.7 50.3 47.7 45.1 42.3 39.4	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 11,100 9,320 8,640 8,000 7,420 6,920	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300 10,400 9,500 8,700 8,700 8,100 7,500 7,100 6,600	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300	3 Degret Machin List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 7,600 7,000 6,500 6,100
24100 2440 2640 2840 3040 3240 3840 3840 3840 4500 5500 6500 7500 6500 7500 8500 9500 8500 9500 10000 10500	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.8 75.9 74.9 74.0 71.7 69.4 67.0 64.6 67.0 64.6 67.0 64.6 67.0 54.3 51.5 48.6 45.6 42.4 39.0	O Degree Machine List 71,200 * 64,610 58,020 52,570 48,010 44,110 40,760 37,830 35,250 20,210 18,070 16,290 14,770 13,470 12,320 11,330 10,440 9,670 8,990	1 Degree Machine List 34,600 32,500 27,800 24,200 17,100 15,400 14,000 12,800 11,700 10,700 9,900 9,200 8,600	22,600 20,100 17,900 16,100 14,600 13,200 12,100 11,200 10,400 9,700 8,900 8,300	3 Degree Machine List 16,800 15,400 14,000 12,800 11,700 10,700 10,000 9,200 8,600 8,000	Particus (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 90.0 95.0 100.0 105.0 120.0	Angle (deg) 81.9 81.1 80.2 79.4 78.6 77.7 76.9 76.0 75.2 73.1 70.9 68.7 64.3 62.0 59.6 57.2 54.7 54.2 54.7 52.2 46.8 43.9 40.8 37.6	O Degree Machine List 61,720 * 60,840 57,980 52,530 44,040 40,670 37,740 35,160 29,910 25,880 22,680 20,100 17,960 16,150 14,630 13,310 10,290 9,500 8,790 8,170 7,620	1 Degree Machine List 24,100 21,200 18,800 15,100 13,700 12,500 11,500 11,500 10,600 9,800 9,000 8,300 7,700 7,200	22,300 19,700 17,700 15,800 14,400 13,100 12,000 11,000 10,100 9,400 8,700 8,100 7,500 7,000	3 Degree Machine List 15,700 14,900 13,600 12,400 11,400 10,600 9,700 8,900 8,900 8,300 7,700 7,200 6,800	Pacifius 26.0 28.0 28.0 30.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 100.0 110.0 1120.0 130.0	Angle (deg.) 81.7 80.9 80.1 79.3 78.6 77.8 77.0 76.2 74.2 70.2 68.2 66.1 64.0 61.8 59.6 57.4 55.1 52.7 55.1 52.7 55.1 52.7 45.1 42.3 39.4 36.2	0 Degree Machine List 52,680 * 51,800 * 51,140 * 47,810 43,890 37,610 35,030 29,760 25,720 22,530 19,950 17,810 16,000 14,480 13,160 12,010 11,000 14,480 13,160 12,010 11,000 10,110 9,320 8,640 8,000 7,420 6,920 6,450	1 Degree Machine List 23,700 20,900 18,600 16,600 15,000 13,700 12,300 11,300 10,400 9,500 8,700 8,700 8,100 7,500 7,100 6,600	2 Degree Machine List 19,200 17,400 15,600 14,100 12,800 11,700 10,600 9,800 9,100 8,400 7,800 7,200 6,700 6,300 5,800	3 Degre Machin List 13,700 13,100 12,100 11,100 10,200 9,400 8,600 8,000 7,600 7,000 6,500 6,100 5,700

Refer to notes on page 31.

Barge

5 Counterweights (57,590 lbs) - 2 Carbody weights (14,340 lbs) - Crawlers in extended position.

	160)' Booi	n				170)' Boo	m				180)' Boo	m		
	100		50° Rated	Load (lb	os)		170	r		d Load (lb	s)		100		60° Rateo	l Load (ll	os)
Load Radius	Boom Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	3 Degree Machine	Load Radius	Boom Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	3 Degree Machine	Load Radius	Boom Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	3 Degree Machine
(ft) 28.0	(deg.) 81.5	List 44,090 *	List	List	List	(ft) 28.0	(deg.) 82.0	List 38,800 *	List	List	List	(ft) 30.0	(deg.) 81.8	List 33,730 *	List	List	List
30.0 32.0	80.7 80.0	43,430 * 42,760 *				30.0 32.0	81.3 80.6	38,130 * 37,470 *				32.0 34.0	81.1 80.5	33,060 * 32,620 *			
34.0 36.0	79.3 78.6	42,100 * 40,520				34.0 36.0	79.9 79.2	37,030 * 36,370 *				36.0 38.0	79.8 79.2	31,960 * 31,520 *			
38.0	77.8	37,560				38.0	78.6	35,710*				40.0	78.5	31,080 *			
40.0 45.0	77.1 75.2	34,980 29,710				40.0 45.0	77.9 76.1	34,780 29,510				45.0 50.0	76.9 75.3	29,250 25,220			
50.0	73.4	25,680	20.000			50.0	74.4	25,460	20 500			55.0	73.6	22,000 19,400	17.000		
55.0 60.0	71.5 69.6	22,480 19,880	20,800 18,400	17,100		55.0 60.0	72.6 70.8	22,260 19,660	20,500 18,100	15,700		60.0 65.0	72.0 70.3	19,400 17,260	17,800 15,900	13,700	
65.0 70.0	67.7 65.7	17,720 15,930	16,400 14,800	15,400 14,000	12,000	65.0 70.0	69.1 67.2	17,520 15,710	16,100 14,500	15,000 13,700		70.0 75.0	68.6 66.8	15,450 13,910	14,300 12,800	13,100 11,900	9,300
75.0	63.7	14,390	13,400	12,700	11,600	75.0	65.4	14,170	13,100	12,400	10,400	80.0	65.1	12,560	11,700	10,800	9,000
80.0 85.0	61.7 59.7	13,070 11,920	12,200 11,100	11,500 10,500	10,900 9,900	80.0 85.0	63.5 61.6	12,850 11,680	11,900 10,800	11,200 10,300	10,200 9,600	85.0 90.0	63.3 61.5	11,410 10,400	10,600 9,600	10,000 9,100	8,800 8,500
90.0	57.6	10,910	10,100	9,700	9,200	90.0	59.7	10,670	9,900	9,400	8,900	95.0	59.7	9,500	8,800	8,300	7,800
95.0 100.0	55.4 53.2	10,000 9,210	9,300 8,700	8,800 8,200	8,500 7,900	95.0 100.0	57.7 55.7	9,780 8,990	9,100 8,400	8,600 7,900	8,200 7,600	100.0 105.0	57.8 55.9	8,700 8,000	8,100 7,300	7,600 7,000	7,200 6,600
105.0 110.0	50.9 48.6	8,500 7,870	8,000 7,400	7,500 7,100	7,200 6,700	105.0 110.0	53.6 51.5	8,260 7,620	7,800 7,100	7,200 6,800	6,900 6,400	110.0 115.0	54.0 52.0	7,340 6,760	6,800 6,200	6,400 5,900	6,100 5,600
115.0	46.1	7,290	6,800	6,500	6,300	115.0	49.3	7,050	6,600	6,200	6,000	120.0	49.9	6,230	5,700	5,500	5,100
120.0 125.0	43.6 40.9	6,760 6,280	6,400 6,000	6,000 5,600	5,800 5,400	120.0 125.0	47.0 44.7	6,520 6,040	6,100 5,600	5,700 5,300	5,600 5,100	125.0 130.0	47.8 45.6	5,700 5,220	5,300 4,800	4,800 4,600	4,600 4,200
130.0	38.1	5,860	5,500	5,300	5,000	130.0	42.2	5,570	5,200	4,900	4,700	135.0	43.3	4,780	4,400	4,200	3,900
135.0 140.0	35.0 31.8	5,440 5,070	5,100	5,000 4,500	4,600 4,400	135.0 140.0	39.6 36.9	5,150 4,760	4,800 4,400	4,500 4,200	4,300 3,900	140.0 145.0	40.9 38.4	4,380 4,030	4,000 3,600	3,800 3,500	3,600 3,200
						145.0 150.0	34.0 30.8	4,380 4,050	4,100	3,800	3,700 3,500	150.0 155.0	35.8 33.0	3,680 3,370	3,400 3,100	3,200 2,900	3,000 2,800
Ree	eves	4	2	2	2		eves	4	2	2	2		eves	2	2	2	2
	190)' Booi	n				200)' Boo	m								
		36	50° Rated	LL oad (lk	()			3	60° Rateo	d Load (lb	(7)			3	60° Rater	d Load (ll	os)
Load																	
Radius (ft)	Boom Angle (deg.)	Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	3 Degree Machine List
Radius	Angle	Machine List 29,540 * 28,880 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0	Angle (deg.) 81.6 81.0 80.4	Machine List 29,540 * 28,880 * 28,430 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 34.0 36.0 38.0	Angle (deg.) 81.4 80.9 80.3	0 Degree Machine List 25,790 * 25,350 * 24,910 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2	Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 45.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0 38.0	Angle (deg.) 81.6 81.0 80.4 79.8	Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5	Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110	1 Degree Machine List	2 Degree Machine	3 Degree Machine	Radius (ft) 34.0 38.0 40.0 45.0 50.0 55.0 60.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310	1 Degree Machine List	2 Degree Machine	3 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1	Machine List 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 *	1 Degree Machine	2 Degree Machine	3 Degree Machine	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7	Machine 29,540 * 28,880 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540	1 Degree Machine List 16,800 15,600 14,200	2 Degree Machine List	3 Degree Machine List	Radius (ft) 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8 69.3	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770	1 Degree Machine List 14,100 13,200 12,400	2 Degree <u>Machine List</u> 10,200 9,600	3 Degree Machine List	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius 32.0 34.0 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5	Machine 29,540 * 28,880 * 28,880 * 28,430 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600	2 Degree Machine List 11,700 11,100 10,600	3 Degree Machine List 8,100 7,900	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8 69.3 67.7 66.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 13,310 17,150 15,320 13,770 12,430 11,260	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400	2 Degree Machine List 10,200 9,600 9,100 8,600	3 Degree Machine List 6,800 6,600	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius 32.0 34.0 36.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1	Machine 29,540 * 28,880 * 28,880 * 28,843 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 15,540 13,990 12,650 11,500	1 Degree Machine List 16,800 15,600 14,200 12,800	2 Degree <u>Machine List</u> 11,700 11,100	3 Degree Machine List 8,100	Radius (ft) 34.0 36.0 38.0 40.0 55.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8 69.3 67.7	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430	1 Degree Machine List 14,100 13,200 12,400 11,300	2 Degree Machine List 10,200 9,600 9,100	3 Degree Machine List 6,800	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius 32.0 34.0 36.0 38.0 40.0 45.0 50.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Angle (deg.) 81.6 81.0 80.4 79.8 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4	Machine 29,540 * 28,840 * 28,430 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200	3 Degree Machine List 8,100 7,900 7,700 7,300 6,900	Radius 34.0 36.0 38.0 40.0 50.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 73.8 70.8 69.3 67.7 66.2 64.6 63.0 61.4	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2	Machine 29,540 * 28,880 * 28,430 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 10,700 9,600	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000	3 Degree Machine List 8,100 7,900 7,700 7,300	Radius (ft) 34.0 36.0 38.0 40.0 55.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3 70.8 69.3 67.7 66.2 64.6 63.0	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600	3 Degree Machine List 6,800 6,600 6,200 5,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	Angle (deg.) 81.6 81.0 80.4 79.8 77.6 77.6 77.9 72.9 77.6 72.9 71.3 68.1 69.7 68.1 69.7 68.1 69.7 63.2 61.4 59.7 57.9 56.1	Machine 29,540 * 28,880 * 28,880 * 28,830 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400	1 Degree Machine List 16,800 15,600 14,200 12,800 10,700 9,600 8,800 8,200 7,500 6,900	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,000 6,500	3 Degree Machine List 8,100 7,900 7,700 7,300 6,900 6,600 6,300 5,800	Radius (ft) 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 90.0 95.0 100.0 110.0 115.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 77.8 77.8 70.8 60.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 56.3	0 Degree Machine List 25,790 * 25,350 * 24,910 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600	3 Degree Machine List 6,800 6,600 6,200 5,500 5,500 5,100 4,900 4,500	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0 75.0 80.0 90.0 95.0 90.0 100.0 110.0 115.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3 52.4	Machine 29,540 * 28,803 * 28,430 * 27,950 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,800	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,600 7,600 7,600 5,900 5,900 5,400	3 Degree Machine List 8,100 7,900 7,700 7,300 6,900 6,600 6,600 6,600 5,800 5,400 5,400 5,000	Radius (ft) 34.0 36.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 100.0 115.0 125.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 73.8 73.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 55.4 55.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440	14,100 13,200 12,400 11,300 10,400 9,400 8,600 6,600 6,000 5,400 5,000	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 6,600 6,600 6,600 5,600 5,600 5,600 4,500	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200 3,800	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0 36.0 36.0 36.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0	Angle (deg.) 81.6 81.0 80.4 79.8 77.6 77.6 72.9 77.6 72.9 71.3 68.1 69.7 68.1 69.7 68.1 69.7 68.1 65.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3	Machine 29,540 * 28,880 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810	1 Degree Machine List 16,800 15,600 14,200 12,800 10,700 9,600 8,800 8,200 7,500 6,900 6,300	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,600 7,600 5,900	3 Degree Machine List 8,100 7,900 7,700 7,300 6,900 6,600 6,600 6,300 5,800 5,400	Radius (ft) 34.0 36.0 36.0 38.0 40.0 50.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 100.0 110.0 115.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 72.3 66.3 66.3 66.2 64.6 63.0 61.4 59.7 58.1 54.6	0 Degree Machine List 25,790 * 25,350 * 24,910 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970	14,100 13,200 12,400 11,300 10,400 9,400 7,900 7,300 6,600 6,000 5,400	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,600 5,600 5,600 5,000	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,100 4,900 4,500 4,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 36.0 38.0 40.0 45.0 55.0 60.0 55.0 60.0 65.0 65.0 65.0 70.0 88.0 88.0 88.0 99.0 95.0 100.0 105.0 115.0 125.0 125.0 125.0 125.0 135.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3 52.4 50.5 48.5 48.5	Machine 29,540 * 28,830 * 28,430 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 12,650 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 5,800 5,200 4,800 4,400	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,600 7,600 7,600 7,600 5,900 5,400 5,400 5,000 4,600 4,200	3 Degree Machine List 8,100 7,900 7,700 7,300 6,900 6,600 6,300 5,400 5,400 4,600 4,200 3,800	Radius (ft) 34.0 36.0 38.0 40.0 40.0 55.0 55.0 60.0 65.0 75.0 60.0 65.0 70.0 75.0 80.0 80.0 90.0 90.0 90.0 90.0 91.0 100.0 110.0 125.0 130.0 135.0 140.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 73.8 70.8 69.3 70.8 69.3 70.8 69.3 64.6 63.0 61.4 59.7 54.6 54.6 52.8 52.8 52.8 52.8 52.8 51.0 49.1 47.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,400 4,600 4,100 3,700	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600 5,600 5,600 5,000 4,500 4,100 3,700 3,400	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,500 5,500 5,500 5,100 4,900 4,500 3,800 3,600 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 36.0 38.0 40.0 45.0 55.0 60.0 55.0 60.0 55.0 60.0 75.0 80.0 85.0 90.0 90.0 90.0 90.0 105.0 100.0 115.0 125.0 125.0 130.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 70.9 71.3 69.7 64.7 64.8 63.2 61.4 59.7 57.9 56.1 55.4 55.4 52.4 50.5 48.5	Machine 29,540 * 28,880 * 28,880 * 28,430 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 5,800 5,200 4,800	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,000 6,500 6,500 5,900 5,400 5,900 4,600	3 Degree Machine List 8,100 7,900 7,700 7,300 6,900 6,600 6,600 6,600 6,600 5,800 5,400 5,000 4,600 4,200	Radius 34.0 36.0 38.0 40.0 45.0 55.0 55.0 60.0 65.0 70.0 75.0 80.0 80.0 80.0 90.0 95.0 100.0 115.0 125.0 130.0 135.0	Angle (deg.) 81.4 80.9 80.3 79.7 78.2 76.8 75.3 70.8 77.3 70.8 69.3 64.3 64.6 63.0 61.4 59.7 56.3 54.6 52.8 54.6 52.8 51.0 49.1	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,567 5,970 5,440 4,960 4,510	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 6,000 5,400 5,000 4,600 4,100	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,600 6,600 6,600 6,600 6,000 5,600 4,500 4,500 4,100 3,700	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,500 5,500 5,500 4,900 4,500 4,500 4,200 3,800 3,600 3,200	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius 32.00 34.0 36.0 36.0 36.0 36.0 50.0 55.0 60.0 65.0 70.0 80.0 90.0 120.0 130.0 140.0 145.0 150.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 71.3 69.7 71.3 66.5 66.5 66.5 66.5 61.4 59.7 52.4 53.7 52.4 55.7 95.1 54.3 52.4 8.5 46.4 44.3 42.1 39.8	Machine 29,540 * 28,830 * 28,430 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 5,750 5,260 4,800 4,400 4,010 3,680	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 10,700 9,600 8,800 8,200 7,500 6,900 6,300 5,200 4,800 4,400 3,900 3,300	2 Degree Machine List 11,700 11,100 10,600 9,900 8,200 7,600 7,600 7,000 6,500 5,900 5,400 5,900 5,400 5,000 4,600 4,200 3,700 3,700 3,500 3,100	8,100 7,900 7,700 7,300 6,900 6,600 6,300 5,800 5,4000 5,400 5,4000 5,400 5,400 5,400 5,40	Radius (ft) 34.0 36.0 38.0 40.0 40.0 55.0 60.0 65.0 75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 110.0 112.0 130.0 130.0 140.0 145.0	Angle (deg.) 81.4 80.9 79.7 78.2 76.8 75.3 73.8 70.8 69.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 54.6 52.8 54.0 54.6 51.0 49.1 47.2 45.2	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,960 4,510 4,100 3,700	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,600 6,600 6,600 5,400 5,400 5,400 4,100 3,700 3,300	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600 5,000 4,500 4,500 4,500 4,100 3,700 3,400 3,000	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,500 5,500 5,500 5,100 4,900 4,500 3,200 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius (ft) 32.0 34.0 36.0 36.0 36.0 36.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 125.0 130.0 145.0 145.0 155.0 160.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 68.1 66.5 64.8 63.2 61.4 59.7 57.9 56.1 54.3 52.4 50.5 48.5 50.5 48.4 44.3 42.1 39.8 37.4 34.8	Machine 29,540 * 28,880 * 28,843 * 28,430 * 27,990 * 27,550 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,750 5,260 4,800 4,400 4,010 3,680 3,350	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,800 4,400 3,900 3,300 3,000 2,700	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,600 7,000 6,500 5,400 5,000 5,400 4,600 4,200 3,700 3,500	3 Degree Machine List 8,100 7,900 7,700 7,300 6,600 6,600 6,300 5,800 5,800 5,800 5,400 5,000 4,600 4,200 3,800 3,500 3,200	Radius (ft) 34.0 36.0 38.0 40.0 40.0 55.0 60.0 65.0 75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 125.0 135.0 145.0 155.0	Angle (deg.) 81.4 80.9 79.7 78.2 76.8 75.3 73.8 70.8 69.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 56.3 54.6 51.0 49.1 47.2 45.2 43.1	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,510 4,100 3,700 3,350	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,400 5,400 5,400 4,600 4,600 4,600 4,100 3,700 3,300 2,900	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600 5,000 4,500 4,500 4,500 4,100 3,700 3,400 3,000	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,500 5,500 5,500 5,100 4,900 4,500 3,200 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine
Radius 32.0 34.0 36.0 36.0 36.0 36.0 36.0 50.0 55.0 60.0 65.0 70.0 80.0 90.0 90.0 90.0 90.0 100.0 110.0 120.0 130.0 135.0 140.0 155.0 160.0 155.0 160.0 155.0 165.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 77.6 76.1 74.5 72.9 71.3 69.7 71.3 69.7 71.3 69.7 68.1 66.5 63.2 61.4 59.7 57.9 56.1 54.3 52.4 50.5 48.5 46.4 44.3 42.1 39.8 37.4	Machine 29,540 * 28,830 * 28,430 * 28,430 * 27,990 * 26,450 * 25,300 22,110 19,510 17,350 15,540 13,990 12,650 11,500 10,470 9,560 8,770 8,040 7,400 6,810 6,280 5,260 4,800 4,401 3,680	1 Degree Machine List 16,800 15,600 14,200 12,800 11,600 9,600 8,800 8,200 7,500 6,900 6,300 5,800 5,200 4,800 3,900 3,600 3,300	2 Degree Machine List 11,700 11,100 10,600 9,900 9,000 8,200 7,600 7,000 6,500 5,900 5,900 5,400 5,900 5,400 5,900 4,600 4,200 3,700 3,700 3,700 3,700	8,100 7,900 7,700 7,300 6,900 6,600 6,300 5,800 5,4000 5,400 5,4000 5,400 5,400 5,400 5,40	Radius (ft) 34.0 36.0 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0 80.0 90.0 95.0 100.0 105.0 115.0 125.0 130.0 155.0	Angle (deg.) 81.4 80.9 79.7 78.2 76.8 75.3 73.8 70.8 69.3 70.8 69.3 67.7 66.2 64.6 63.0 61.4 59.7 58.1 56.3 54.6 51.0 49.1 47.2 45.2 43.1	0 Degree Machine List 25,790 * 25,350 * 24,910 * 24,470 * 23,360 * 22,480 * 21,380 * 19,310 17,150 15,320 13,770 12,430 11,260 10,250 9,340 8,530 7,820 7,160 6,560 5,970 5,440 4,510 4,100 3,700 3,350	1 Degree Machine List 14,100 13,200 12,400 11,300 10,400 9,400 8,600 7,900 7,300 6,600 6,000 5,400 5,400 5,400 4,600 4,600 4,600 4,100 3,700 3,300 2,900	2 Degree Machine List 10,200 9,600 9,100 8,600 8,100 7,600 7,100 6,600 6,000 5,600 5,000 4,500 4,500 4,500 4,100 3,700 3,400 3,000	3 Degree Machine List 6,800 6,600 6,200 5,900 5,500 5,500 5,500 5,500 5,100 4,900 4,500 3,200 3,200 2,900	Radius	Angle	0 Degree Machine	1 Degree Machine	2 Degree Machine	Machine



NOTES	5
-------	---

NOTES		



NOT	ES
-----	----

NULES		
-		

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 CONSTRUCTION MACHINERY CO., LTD. No part of this catalog may be reproduced in any manner without notice.

KOBELCO CONSTRUCTION MACHINERY 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.kobelcocm-global.com/

KOBELCO CONSTRUCTION MACHINERY U.S.A. INC.

22370 Merchants Way, Katy, Texas 77449, USA Tel: +1-713-888-8430 URL: http://www.kcmu-cranes.com/