

Hydraulic Crawler Crane

# GENOOG!

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

Max. Fixed Jib Combination: 190 ft + 60 ft



# CK1100G CONTENTS

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

### **General Description**



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

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

 Basic boom & jib length
 80' + 30' (24.4 m + 9.1 m)

 Maximum boom & jib length
 190' + 60' (57.9 m + 18.3 m)

 Working weight
 Approx. 198,500 lbs (90,020 kg)

Ground bearing pressure Approx. 12.9 psi (101 kPa)

*Gradeability* 40%

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

#### **General Dimensions**

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

#### **Working Speed**

*Hoist line speed (front and rear drums)* 

390 ~ 10 ft/min (120 ~ 3 m/min)

Lowering line speed (front and rear drums)

390 ~ 10 ft/min (120 ~ 3 m/min)

Boom hoist line speed (front and rear drums)

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

Boom lowering line speed (front and rear drums)

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

Swing speed (max.) 4.0 rpm

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

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

drum.

## **Upper Machinery**

Power Plant:

Diesel engine - make and model

Hino J08E-UV

(complies with Interim "Tier 4")

No. of cylinders 6

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

(122 mm x 150 mm)

Cycles 4

Total displacement 469 cu.in. (7.684 l)

Rated output SAE GROSS

285 HP / 2,100 rpm (213 kW / 2,100 min<sup>-1</sup>)

Maximum torque

750 lbs-ft / 1,600 rpm (1,017 Nm / 1,600 min<sup>-1</sup>)

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

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

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

Throttle Twist grip type hand throttle, electrically controlled, in conjunction with floor mounted pedal.

Air cleaner Dry type with replaceable paper element.

Fuel tank capacity 106 US gal. (400 liters)

Lube oil filters Full flow and by-pass type with element type.

Fuel filter Replaceable paper element.

<sup>\* - 10&#</sup>x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.



Self Lifting Device - Standard Equipment

#### Counterweight and Carbody weight

Counterweight Base 1 x 18,200 (8,310 kg) Counterweight (R) 2 x 12,700 (5,750 kg) Counterweight (L) 2 x 12,700 (5,750 kg) Total Counterweight 69,000 (31,310 kg)

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



#### Hydraulic system

Maximum pressure rating 4,626 psi (31.9MPa)

Cooling

Oil to air heat exchanger

**Filtration** 

Full flow filters with replaceable paper elements

Reservoir capacity

116.2 US gal. (440 liters)

#### Hydraulic pumps:

Load hoist, boom hoist, and propel

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

Swing

1 piston pump, max flow rate 46.7 US gal/min (177  $\ell$ /min)

Control system and auxiliary

2 Gear pumps, max flow rate

16.3 US gal/min + 10.6 US gal (61.6 \( \ell \)min + 40.5 \( \ell \)min)

Brake cooling system

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

#### Gantry

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

#### Operators cab

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

#### **Controls**

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

#### Swing:

Swing unit

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

Swing brake

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

Swing circle

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

Swing lock

Manual, 4 position lock for transportation.



Line pull:

*Max. line pull (single line) -* 46,800 lbf (208 kN) *Rated line pull -* 25,200 lbf (112 kN)

### **Lower Machinery**

#### Crawlers:

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

#### Crawler drive:

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

#### Crawler brakes:

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

#### *Steering mechanism:*

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

#### Crawler shoe:

66 shoes - 36" wide, each crawler.

#### Track rollers:

The track rollers are sealed for maintenance free operation.

#### Front drum:

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

#### Negative brake

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

Drum lock External ratchet for locking drum

#### Drums:

#### Front drum -

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

#### Rear drum -

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

#### 3rd drum (optional) -

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

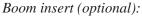


#### **Crane Attachments**

Boom:

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

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



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

Boom insert

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

*Jib* (optional):

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

Maximum jib length60' (18.3 m)Basic jib length30' (9.1 m)Jib base section15'9" (4.8 m)Jib tip section16'5" (5.0 m)

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

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



Auxiliary sheave (optional):

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

Boom hoist reeving:

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

Boom backstops:

Telescopic type with spring bumper

### **Standard Equipment**

Lights:

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

Gauges and warning display

Gauges

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

One (1) water temperature

Warning display

Battery charge Engine oil pressure Air cleaner

Engine oil filter Control main pressure Hydraulic oil temperature

DPF condition indicator

Others

Air conditioner/heater

Drum turn indicator (front/rear)

Foot pedal / throttle Electric transfer pump

Counterweight self-removal device

KCross Telematics Free fall winches

Safety Service

Function lock lever

Swing Limiter

Boom over hoist limit switch

Signal horn

Front/rear hoist drum lock

Swing Limiter (Buzzer, lamps, or stops)

Overload prevention device (LMI)

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

Boom angle indicator

Travel alarm

Safety Service (cont)

Level indicator

Boom hoist drum lock

Swing locks, anti drift, and mechanical

Boom backstops

Boom base catwalk

Upper machinery catwalk, handrails

and ladder

**Tools and Accessories** 

A set of tools and accessories are

furnished.

**Optional Equipment** 

Third drum

Hook block

1100K 010C

Hook ball

Auxiliary sheave

Fixed jib

Boom inserts

Carbody erection cylinder

#### **G-Mode**

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

Auto Idling Stop Mode (AIS):

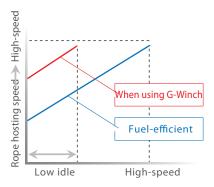
An Industry First

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

G-Winch Mode:

An Industry First

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



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

G-Engine Mode:

An Industry First

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











**G-Engine** 

**G-Winch** 

AIS



Exhaust cleaning DPR:

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

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

\* Warning: High sulfer diesel will damage the engine.

Remote control connection

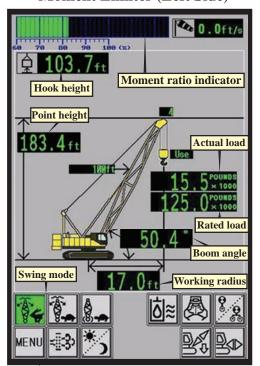
Oil cooler operation

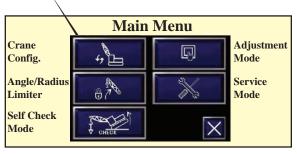
Free fall (auxiliary)

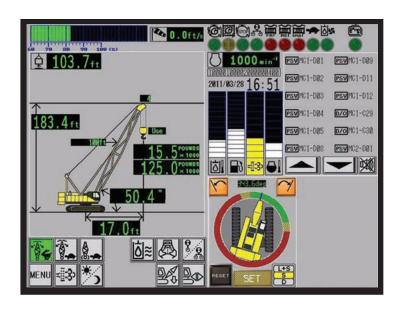
#### **Load Moment Indicator (LMI)**

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

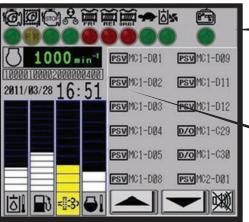
#### **Moment Limiter (Left Side)**







#### **Gauges (Right Side)**



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

AIS operation Free fall (3rd)
Slow speed state

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

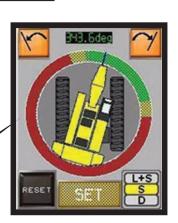
## Gauges

Hydraulic oil temperature
Fuel gauge
Diesel particulate filter gauge
Coolant temperature

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

#### **Over-Swing Prevention**

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



#### **Winch Performance Data**

#### Note:

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

Line speed and line pull based on single line.

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

#### Front & Rear Drum

Wire Rope Diameter = 26 mm

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

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

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

#### Line speed (ft/min)

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

#### Third Drum (for Load hoist)

Wire Rope Diameter = 22 mm

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

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

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

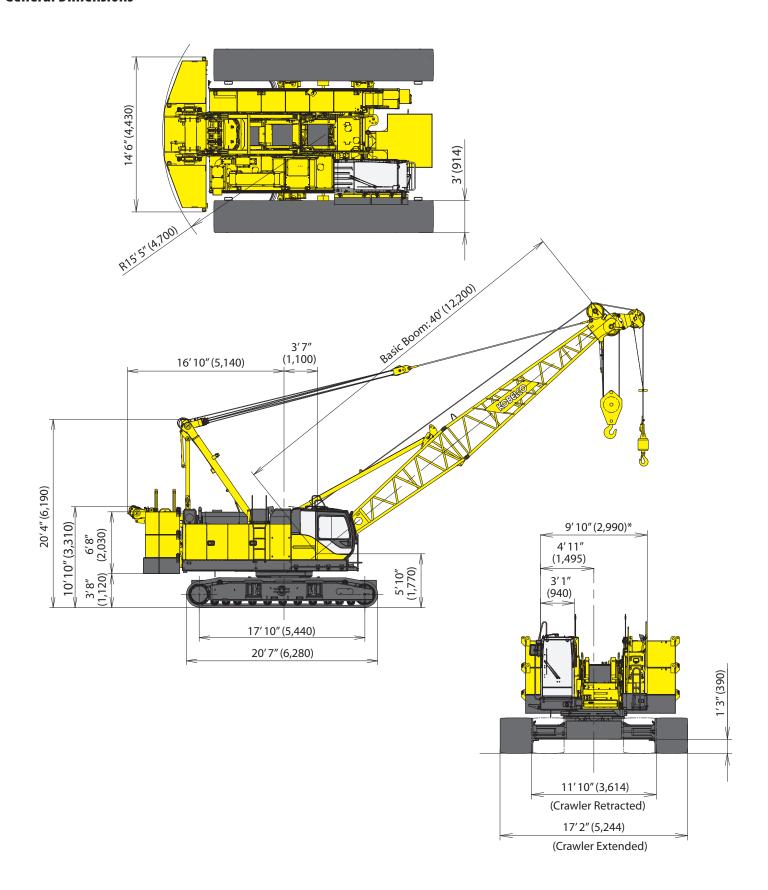
#### Line speed (ft/min)

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

## **Wire Rope Specifications**

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

### **General Dimensions**



<sup>\* - 10&#</sup>x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

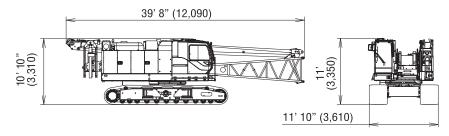
### **Dimensions and Weight**

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

#### Base Machine - 1

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

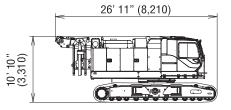
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

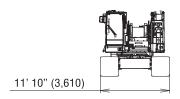


#### Base Machine - 2

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

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

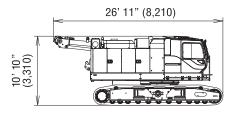


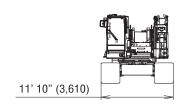


#### Base Machine - 3

Weight: 88,700 lbs (40,230 kg) Gantry, crawlers, and

wire ropes (front, rear, and boom hoist)

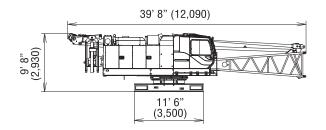


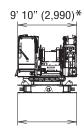


#### Base Machine - 4

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

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

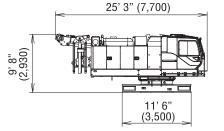


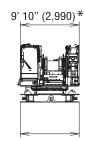


#### Base Machine - 5

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

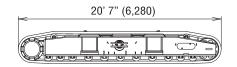
Gantry, self removal unit, and wire ropes (front, rear, and boom hoist)

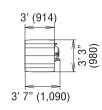




#### Crawler

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





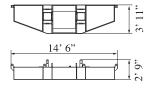
<sup>\* - 10&#</sup>x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

## **Dimensions and Weight**

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

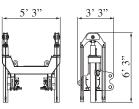
#### **Counterweight Base**

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



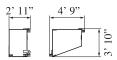
#### **Self Removal Unit**

Weight: 1,900 lbs (870 kg)



#### Counterweight (R)

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



#### Counterweight (L)

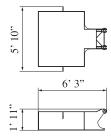
Weight: 12,700 lbs (5,750 kg)





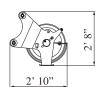
#### **Carbody Weight**

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



#### **Auxiliary Sheave**

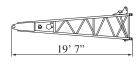
Weight: 430 lbs (195 kg)





#### **Boom Base**

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

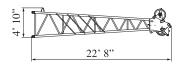




#### **Boom Tip**

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





#### 10 ft (3.0 m) Insert Boom

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



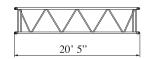


#### 20 ft (6.1 m) Insert Boom

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

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

Weight: 2,500 lbs (1,113 kg)

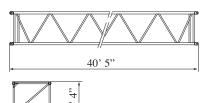


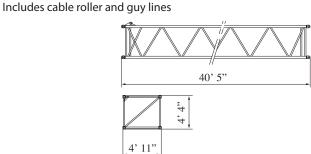


#### 40 ft (12.2 m) Insert Boom

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

4' 11"





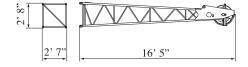


## **Dimensions and Weight**

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

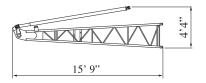
Jib Tip

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



**Jib Base and Strut** 

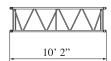
Weight: 1,400 lbs (637 kg) Includes guy line.





10 ft (3.0 m) Insert Jib

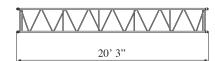
Weight: 280 lbs (128 kg) Includes cable roller and guy line.



	2, 8,,
2' 8"	

20 ft (6.1 m) Jib Insert

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





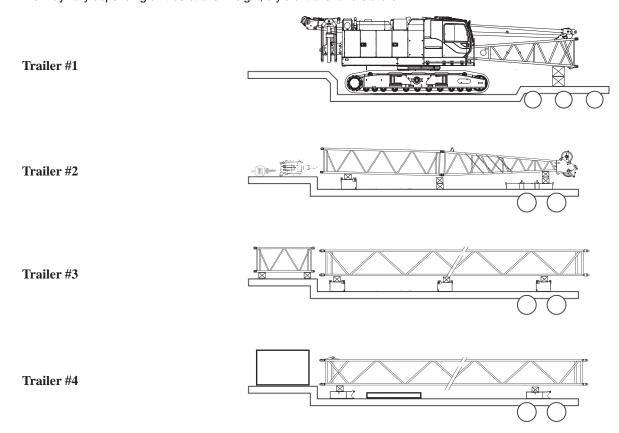
**Transportation Plan**Refer to pages 10-12

#### Shipping plan for 150 ft Boom

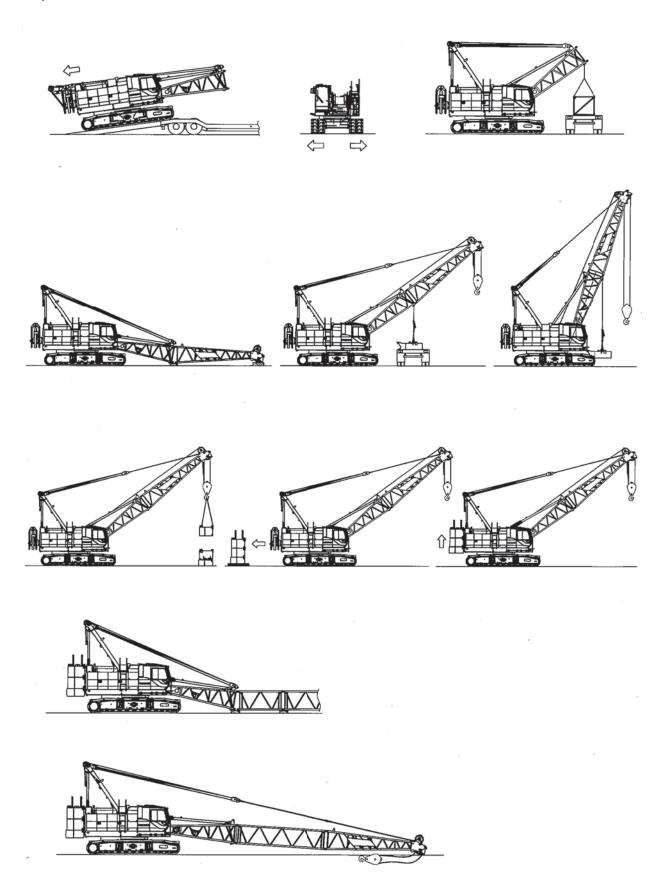
Description of them	Wei	Weight		Trailer Loads			
Description of Item	lbs	(kg)	#1	#2	#3	#4	
Base Machine with Boom Base and Crawlers*	95,200	(43,150)	1				
Counterweight Base	18,200	(8,310)		1			
Counterweight (L)	12,700	(5,750)			2		
Counterweight ('R)	12,700	(5,750)		1	1		
Carbody Weight	15,900	(7,200)				2	
10 ft Insert Boom and Guy Line	800	(364)			1		
20 ft Insert Boom and Guy Line	1,400	(613)		1			
40 ft Insert Boom and Guy Line	2,400	(1,098)			1		
40 ft Insert Boom (w/ Lug) and Guy Line (A)	2,500	(1,113)				1	
Boom Tip and Guy Line	2,900	(1,292)		1			
Jib Base and Guy Line	1,400	(637)					
10 ft Insert Jib and Guy Line	280	(128)					
20 ft Insert Jib and Guy Line	480	(218)					
Jib Tip	500	(227)					
75 Ton Block	3,000	(1,361)		1			
13 Ton Ball	800	(365)		1			
Ladder Assembly	90	(41)				1	
Support Box	5,000	(2,268)				1	
A T. 101:		lbs	95,200	39,000	41,300	39,390	
Approx. Total Shipp	ing weight	(kg)	(43,150)	(17,691)	(18,712)	(17,822	

<sup>\*</sup> Third drum is not included. Add 4,200 lbs if third drum is installed.

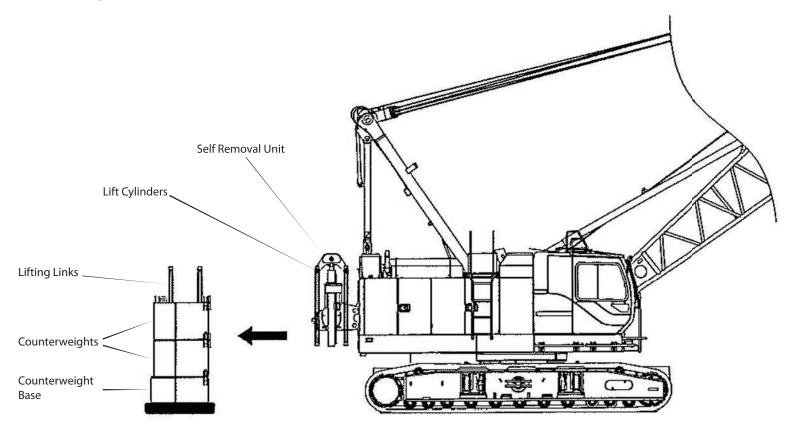
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck. This may vary depending on truck/trailer weight, style of trailer and state law.

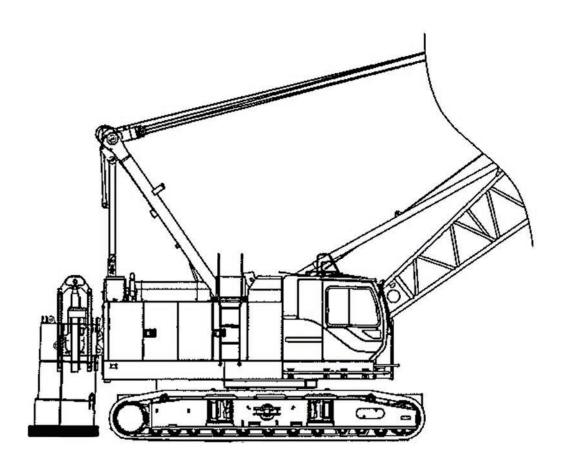


# **Self-Assembly Procedure**



## **Counterweight Self-Removal Device**



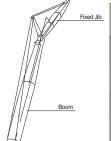


## **Boom and Fixed Jib Arrangement**

#### **Boom Arrangement**

Boom length ft (m)	Boom arrangement
40 (12.2)	©BT >>>
50 (15.2)	<b>□</b> \$101
60 (18.3)	★ ■ 10 10 〒 →      □ 20     □ →      □ 20     □ →      □ 20     □ →      □ 30     □ →      □ 30     □ →      □ 40     □ →      □ 50     □ →      □ 60     □ →      □ 70     □ ↑       □ 70     □ ↑ →      □ 70     □ ↑ →      □ 70     □ ↑ →      □ 70     □ ↑       □ 70     □ ↑ →      □ 70     □ ↑ →      □ 70     □ ↑       □ 70     □ ↑ →      □ 70     □ ↑       □ 70     □ ↑ →
70 (21.3)	※ ■ 10 20 T
80 (24.4)	# B  10   10   20   T
90 (27.4)	★ ■ 10   20   20   T ⇒ ■ 10
100 (30.5)	# B 10 10  20   20   T
110 (33.5)	★ ○ B 10   20
120 (36.6)	*
130 (39.6)	★ ■ 10 20 20 40A 下     ■ 10 40 40 40A 下     ■ 10 40 40A T     ■ 10 40A T     ■
140 (42.7)	※     El 10 10 20 20 40A T       El 10 10 40 40A T

#### **Fixed Jib Arrangement**



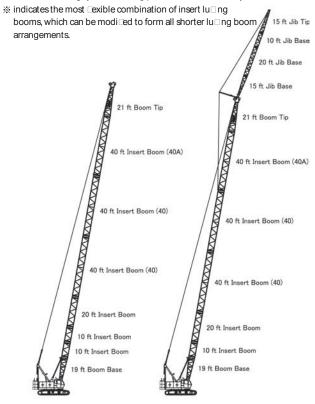
Crane boom length	Jib length ft (m)	Jib arrangement
	30 (9.1)	BĪ
80 ft (24.4 m)	40 (12.2)	
190 ft (57.9 m)	50 (15.2)	──B 20 T
(61.01.1)	60 (18.3)	B 20 10 T

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

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

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

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

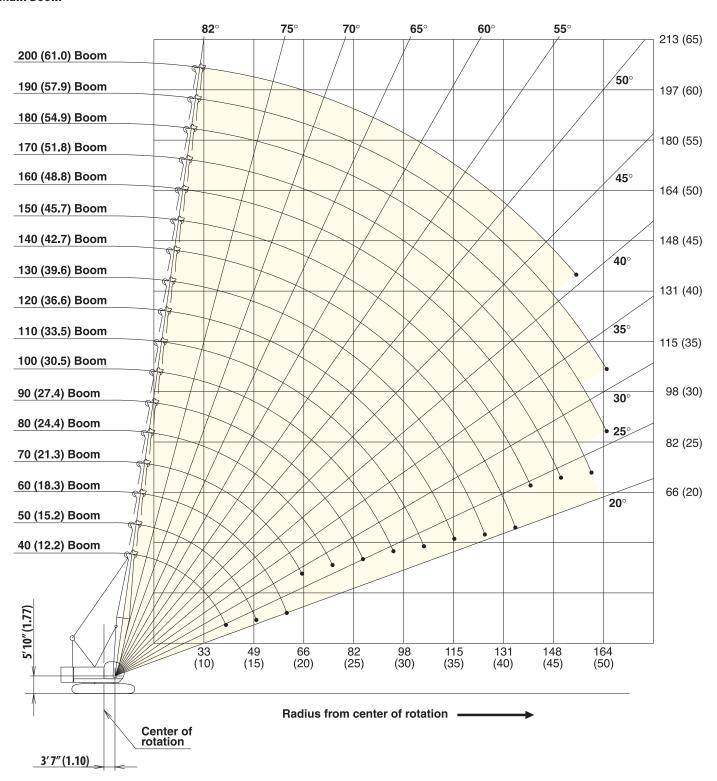


Main Boom - 200 ft (61.0 m)

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

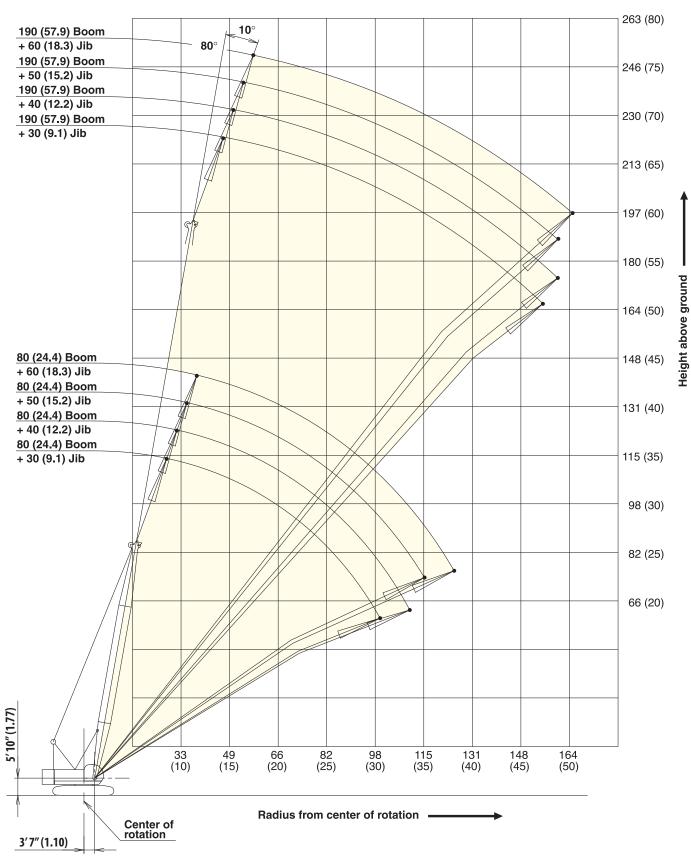
## **Working Ranges**

Main Boom Unit : ft (m)



## **Working Ranges**

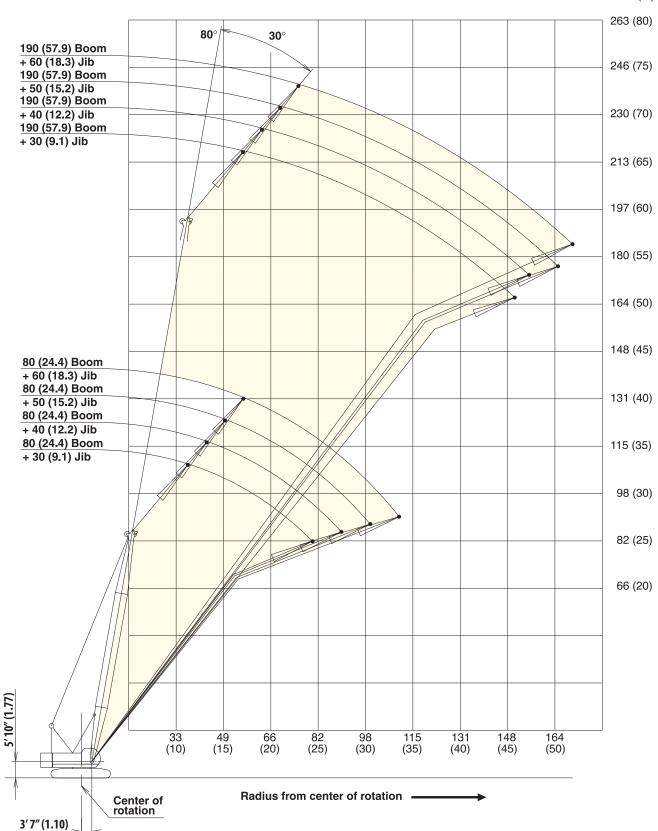




Height above ground

## **Working Ranges**





### **Supplemental Data**

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

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

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

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

#### **Maximum Load for Main Boom**

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

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

#### Maximum Load for Fixed Jib

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

#### **Maximum Load Auxiliary Sheave**

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

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

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

## **Main Boom Lift Capacity**

40	)' Boo	m	50	0' Boo	m	60	)' Boo	m	70	0' Boo	m	80	O' Boo	m
Load	Boom	<i>360</i> °	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius (f+)	Angle	Rated Load	Radius (ft)		Rated Load	Radius (ft)		Rated Load (lbs)	Radius (ft)		Rated Load	Radius (ft)	Angle	Rated Load
(ft)	(deg.)	(lbs) 220.000 *		(deg.)	(lbs)		(deg.)	, ,	(ft)	(deg.)	(lbs)		(deg.)	(lbs) 151,000 *
11.0 <b>12.0</b>	80.5 <b>79.0</b>	220,000 * <b>213,300</b> *	12.0 <b>13.0</b>	81.2 <b>80.0</b>	213,200 * <b>200,600</b> *	13.0 <b>14.0</b>	81.7 <b>80.7</b>	200,400 * <b>187,400</b> *	15.0 <b>16.0</b>	81.3 <b>80.4</b>	151,000 * <b>151,000</b> *	16.0 <b>17.0</b>	81.6 <b>80.9</b>	151,000 * 149,300 *
13.0	77.5	200,800 *	14.0	78.9	187,800 *	15.0	79.8	175,200 *	17.0	79.6	149,400 *	18.0	80.2	146,500 *
14.0	76.0	188,100 *	15.0	77.7	175,600 *	16.0	78.8	164,800 *	18.0	78.7	146,700 *	19.0	79.5	139,400 *
15.0	74.6	175,900 *	16.0	76.6	165,300 *	17.0	77.8	155,500 *	19.0	77.9	139,800 *	20.0	78.8	131,800
16.0	<b>73.1</b> 71.6	165,500 *	<b>17.0</b> 18.0	<b>75.4</b> 74.2	<b>156,000</b> * 147,400 *	<b>18.0</b> 19.0	<b>76.8</b> 75.9	<b>146,900 *</b> 139,800 *	20.0	<b>77.1</b> 75.4	132,200	22.0	<b>77.3</b> 75.8	115,100
17.0 <b>18.0</b>	70.1	156,300 * <b>147,800</b> *	19.0	74.2 72.9	147,400 * <b>140,100</b> *	<b>20.0</b>	<b>74.9</b>	139,800 <sup>13</sup>	22.0 <b>24.0</b>	73.7	115,400 <b>101,300</b>	24.0 <b>26.0</b>	<b>74.3</b>	101,000 <b>89,200</b>
19.0	68.5	140,500 *	20.0	71.7	132,400	22.0	72.9	115,100	26.0	72.0	89,600	28.0	72.8	80,500
20.0	66.9	132,800	22.0	69.3	115,300	24.0	70.9	100,800	28.0	70.3	80,800	30.0	71.2	72,800
22.0	63.7	115,600	24.0	66.8	101,000	26.0	68.8	89,100	30.0	68.5	73,000	32.0	69.7	66,600
24.0	60.4	101,300	26.0	64.3	<b>89,400</b> 80,700	28.0	66.7	<b>80,500</b>	32.0	66.7	<b>67,000</b>	34.0	68.2	61,600
26.0 <b>28.0</b>	57.0 <b>53.4</b>	89,600 <b>80,900</b>	28.0 <b>30.0</b>	61.7 <b>59.1</b>	<b>73,000</b>	30.0 <b>32.0</b>	64.6 <b>62.5</b>	72,800 <b>66,600</b>	34.0 <b>36.0</b>	64.9 <b>63.0</b>	62,000 <b>57,800</b>	36.0 <b>38.0</b>	66.6 <b>65.1</b>	57,300 <b>53,100</b>
30.0	49.8	73,300	32.0	56.3	67,000	34.0	60.3	61,600	38.0	61.2	53,600	40.0	63.5	49,300
32.0	45.8	67,200	34.0	53.4	62,000	36.0	58.0	57,300	40.0	59.3	49,800	42.0	61.8	46,600
34.0	41.2	61,700	36.0	50.3	57,800	38.0	55.7	53,100	42.0	57.3	46,900	44.0	60.2	43,800
36.0	36.2	<b>56,600</b>	<b>38.0</b> 40.0	<b>47.3</b> 44.0	<b>53,600</b>	<b>40.0</b> 42.0	<b>53.4</b> 50.9	<b>49,300</b> 46,600	<b>44.0</b> 46.0	<b>55.3</b> 53.3	<b>44,100</b>	<b>46.0</b> 48.0	<b>58.5</b> 56.8	41,100
38.0 <b>40.0</b>	31.1 <b>25.4</b>	51,500 <b>45,900</b> *	<b>40.0 42.0</b>	<b>44.</b> 0 <b>40.4</b>	49,800 <b>47,000</b>	44.0	<b>48.3</b>	43,800	48.0	<b>51.2</b>	41,300 <b>39,400</b>	<b>50.0</b>	55.1	39,100 <b>37,100</b>
40.0		40,000	44.0	36.7	44,300	46.0	45.8	41,100	50.0	49.0	37,400	55.0	50.5	32,700
			46.0	32.9	41,500	48.0	42.8	39,200	55.0	43.2	33,200	60.0	45.7	29,200
			48.0	27.6	38,300	50.0	39.9	37,200	60.0	36.9	29,600	65.0	40.4	26,300
			50.0	22.3	35,100	<b>55.0</b> 60.0	<b>31.2</b> 20.7	<b>32,900</b> 28,600 *	65.0	29.2	26,800	<b>70.0</b> 75.0	<b>34.3</b> 26.9	<b>24,100</b> 22,100
Ree	ves	8	Ree	ves	8	Ree		8	Rec	eves	6		ves	6
										7100		1		
90	)' Boo	m	10		om									
9( Load	)' Boo Boom	m 360°		0' Boom	om 360°		0' Boom			0' Boom			0' Boom	
Load Radius	Boom Angle	360° Rated Load	Load Radius	0' Boom Boom Angle	360° Rated Load	Load Radius	0' Boom	360° Rated Load	Load Radius	80' Boom Boom Angle	360° Rated Load	Load Radius	O' Boom Boom Angle	360° Rated Load
Load	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Pated Load (lbs)
Load Radius (ft)	Boom Angle (deg.) 81.9	360° Rated Load (lbs) 125,800 *	Load Radius (ft)	O' Boom Angle (deg.) 81.6	360° Rated Load (lbs) 125,600 *	Load Radius (ft) 20.0	O' Boom Angle (deg.) 81.8	360° Rated Load (lbs) 100,800 *	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 98,700 *	Load Radius (ft) 24.0	Boom Angle (deg.)	360° Rated Load (lbs) 85,100 *
Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.3	360° Rated Load (lbs) 125,800 * 125,800 *	Load Radius (ft) 19.0 20.0	0' Boom Angle (deg.) 81.6 81.0	360° Rated Load (lbs) 125,600 * 123,600 *	Load Radius (ft) 20.0 22.0	O' Boom Angle (deg.) 81.8 80.8	360° Rated Load (lbs) 100,800 * 100,800 *	Load Radius (ft) 22.0 24.0	80' Boom Angle (deg.) 81.6 80.6	360° Rated Load (lbs) 98,700 * 94,200 *	Load Radius (ft) 24.0 26.0	0' Boom Angle (deg.) 81.3 80.4	360' Rated Load (lbs) 85,100 * 83,900 *
Load Radius (ft)	Boom Angle (deg.) 81.9	360° Rated Load (lbs) 125,800 *	Load Radius (ft)	O' Boom Angle (deg.) 81.6	360° Rated Load (lbs) 125,600 *	Load Radius (ft) 20.0	O' Boom Angle (deg.) 81.8	360° Rated Load (lbs) 100,800 *	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs) 98,700 *	Load Radius (ft) 24.0	Boom Angle (deg.)	360° Rated Load (lbs) 85,100 *
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7	360 Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 *	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0	81.6 81.0 79.9 77.5	360 Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0	81.8 80.8 79.7 78.6 77.6	360 Rated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 * 80,200	Load Radius (ft) 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200	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) 85,100 * 83,900 * 78,200 * 71,900 65,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4	360 Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0	81.6 81.0 79.9 78.7 77.5 76.3	360 Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200	Load Radius (ft)  20.0 22.0 24.0 26.0 28.0 30.0	81.8 80.8 79.7 78.6 77.6 76.5	360 Rated Load (lbs)  100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0	81.6 80.6 79.6 77.7 76.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	81.3 80.4 79.5 78.6 77.7 76.9	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7	360 Rated Load (lbs)  125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0	81.6 81.0 79.9 77.5	360 Rated Load (lbs) 125,600 * 123,600 * 112,000 * 100,600 88,900 80,200 72,400	Load Radius (ft) 20.0 22.0 24.0 26.0 28.0	0' Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5 75.4	360 Rated Load (lbs)  100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 72,200 66,100 61,100	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600
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 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800	Load Radius (ft)  19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8	360 Rated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0	80.8 80.8 80.8 80.8 79.7 78.6 76.5 75.4 74.3 73.2	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000	Load Padius (ft)  22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7 75.7 74.7 73.7	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500	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 76.9 75.9 75.0 74.1	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6	360 Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 72,400 66,300 61,300 57,000	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7 75.7 74.7 73.7 72.7	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0	80.7 80.7 80.7 777.4 76.1 74.8 73.5 72.1 70.8	360° Rated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1	360° Rated Load (lbs) 100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7 74.7 73.7 72.7 71.7	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800
Load 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	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0	360' Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100	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 42.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 443,400	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 46.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7 75.7 74.7 73.7 72.7 71.7 70.7 69.7	98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000
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	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6	360' Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6	360 Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 88,200 72,400 66,300 61,300 57,000 52,700 48,900 48,900 46,200 43,400	Load Padius (ft)  20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 44.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 446,200 43,400 40,700	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 76.7 75.7 74.7 70.7 69.7 68.6	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 36,000
Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2	360' Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4	360° Rated Load (lbs)  125,600 * 123,600 * 1123,600 * 1100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 48,900 43,400 40,700	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 30.0 34.0 36.0 40.0 42.0 44.0 48.0	81.8 80.8 79.7 78.6 77.6 77.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 50.0	80.6 79.6 75.7 74.7 73.7 70.7 69.7 68.6 67.6	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 40.0 44.0 46.0 48.0 50.0 55.0	80.4 79.5 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 65,900 48,400 45,600 42,800 40,000 38,000 38,000 31,600
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0	81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 66.6 65.2 63.8 62.4	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 112,500 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 49,300 46,500 43,700 40,900	Load Radius (ft)  19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 48,900 43,400 40,700 38,700 36,600	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 36.0 40.0 44.0 48.0 48.0 50.0 55.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2 71.1 70.0 68.9 66.6 65.4 62.5	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 42.0 44.0 46.0 48.0 50.0 60.0	80.6 79.6 78.6 77.7 75.7 74.7 70.7 69.6 67.6 67.6 67.6 67.6 67.6 67.6 67	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 50.0 65.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600 28,100 25,200
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 44.0 48.0	81.9 81.3 80.0 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900	Load Radius (ft)  19.0 20.0 22.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 48,900 46,200 43,400 40,700 38,700 36,600 32,300	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 48.0 50.0 55.0 60.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6 65.4 62.5 59.5	360° Rated Load (lbs)  100,800 * 100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 22,700	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 46.0 48.0 50.0 55.0 60.0 65.0	80.6 79.6 78.6 77.7 76.7 75.7 74.7 70.7 69.7 68.6 67.7 69.7 68.6 67.6 65.0 62.3 59.6	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 25,400	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 46.0 48.0 50.0 60.0 65.0 70.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 36,000 31,600 28,100 25,200 22,900
Load 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 42.0 44.0 46.0 48.0 50.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.5 72.1 70.8 69.4 68.0 66.6 65.2 62.4 60.9 59.4	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 49,300 46,500 43,700 40,900 38,900 36,900	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 50.0 55.0 60.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700	Load Radius (ft)  20.0 24.0 26.0 28.0 30.0 32.0 34.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.5 462.5 59.5 56.5	360° Rated Load (lbs)  100,800 * 100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0	80.6 79.6 78.6 77.7 76.7 74.7 70.7 69.7 68.6 65.0 62.3 59.6 56.8	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 36,300 32,000 28,300 25,400 23,200	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 55.0 60.0 670.0 75.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 32,500 29,000	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 50.0 65.0 70.0 75.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 59.5 49.9	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 21,400	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 50.0 55.0 60.0 65.0 75.0 80.0	80' Boom Angle (deg.) 81.6 80.6 79.6 78.6 77.7 75.7 74.7 73.7 72.7 71.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 50.8	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 25,400 23,200 21,200 19,400	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 85.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 20,900 19,000 17,500
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 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 36,900 32,500 29,000 26,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0	Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8	360' Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0 60.0 75.0 80.0	80.8 79.7 78.6 77.6.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 67.8 66.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 80.0 85.0	80.6 79.6 78.6 77.7 76.7 75.7 74.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 50.8 47.7	360° Rated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 43,000 40,200 38,300 32,000 28,300 28,300 25,400 23,200 21,200 19,400 17,700	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 40.0 44.0 46.0 45.0 65.0 70.0 80.0 85.0 90.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 65,900 48,400 45,600 42,800 40,000 31,600 28,100 25,200 22,900 20,900 19,000 17,500 16,100
Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 60.0 65.0 70.0	81.9 81.3 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9 59.4 59.7 51.7 47.4 42.9	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800	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 42.0 44.0 46.0 48.0 50.0 65.0 60.0 75.0 80.0	800 Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8	360° Rated Load (lbs)  125,600 * 123,600 * 112,600 * 110,600 88,900 88,900 66,300 61,300 57,000 52,700 48,900 40,700 38,700 36,600 32,300 28,700 23,500 23,500 21,400 19,600	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 40,700 38,700 38,700 38,700 25,900 23,500 21,400 19,600 18,100	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0	80.6 79.6 76.7 76.7 75.7 74.7 70.7 70.7 68.6 67.6 65.0 62.3 59.6 55.8 53.8 47.7 44.3	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 28,300 21,200 19,400 17,700 16,500	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 51.6 48.7 45.6	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 25,200 22,900 20,900 19,000 17,500 16,100 15,000
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	81.9 81.9 81.3 80.0 78.7 77.4 76.1 74.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.9 37.9 32.2	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 110,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 40,900 38,900 32,500 29,000 26,100 23,800 20,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 65.0 70.0 85.0 90.0	800 Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0 30.5	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600 18,100 16,900	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 36.0 36.0 40.0 44.0 48.0 55.0 65.0 70.0 75.0 80.0 95.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6 34.1	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 21,400 19,600 18,100 16,800 15,600	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	80.6 79.6 78.6 77.7 75.7 74.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 50.8 47.7 44.3 40.7 36.9	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 25,400 23,200 21,200 19,400 17,700 16,500 15,300 14,200	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 50.0 65.0 70.0 75.0 80.0 90.0 91.0 110.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6 42.4 35.4	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 17,500 16,100 15,000 14,000 12,100
Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0	81.9 81.3 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 66.6 65.2 63.8 62.4 60.9 59.4 75.7 74.7 74.7 74.8 73.5 72.1 70.8 73.5 72.1 70.8 73.5 72.1 70.8 73.5 73.5 72.1 74.8 73.5 73.5 74.7 74.7 74.7 75.1 76.1 76.1 76.1 76.1 76.1 76.1 76.1 76	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800 21,800	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 42.0 44.0 46.0 48.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0	800 Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0	360° Rated Load (lbs)  125,600 * 123,600 * 1123,600 * 1100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 48,900 48,900 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600 18,100	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 36.0 36.0 40.0 44.0 48.0 55.0 65.0 70.0 75.0 85.0 90.0 95.0	80.8 79.7 78.6 77.6 76.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6 34.1 29.1	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 22,700 21,400 19,600 18,100 16,800 15,600 14,600	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 90.0 110.0	80.6 79.6 78.6 77.7 76.7 75.7 74.7 70.7 69.7 68.6 65.0 62.3 59.6 56.8 53.8 50.8 47.7 44.3 40.7 36.9 27.8	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 25,400 23,200 21,200 19,400 17,700 16,500 15,300 14,200 12,600	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 50.0 65.0 70.0 75.0 80.0 90.0 91.0 110.0 120.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6 42.4 35.4 26.6	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 36,000 31,600 28,100 25,200 22,900 20,900 17,500 16,100 15,000 14,000 12,100 10,800
Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	81.9 81.3 80.0 78.7 77.4 76.1 74.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4 42.9 37.9 32.2 25.7	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 125,800 * 112,500 * 110,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 40,900 38,900 32,500 29,000 26,100 23,800 20,100	Load Radius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0	800 Boom Angle (deg.) 81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1 52.5 48.8 44.8 40.5 36.0 30.5	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500 21,400 19,600 18,100 16,900	Load Radius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 36.0 40.0 44.0 48.0 55.0 65.0 70.0 75.0 80.0 95.0 100.0 105.0	80.8 79.7 78.6 77.6 75.4 74.3 73.2 72.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6 34.1	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 21,400 19,600 18,100 16,800 15,600	Load Radius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 110.0 115.0	80.6 79.6 78.6 77.7 75.7 74.7 70.7 69.7 68.6 67.6 65.0 62.3 59.6 56.8 53.8 50.8 47.7 44.3 40.7 36.9	360° Rated Load (lbs)  98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 56,800 52,500 48,700 45,800 40,200 38,300 32,000 28,300 25,400 23,200 21,200 19,400 17,700 16,500 15,300 14,200	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 100.0 110.0 125.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6 42.4 35.4	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 17,500 16,100 15,000 14,000 12,100

## **Main Boom Lift Capacity**

in Boo	m Lif	t Capacity								Full Coun	terweight: 69,00	00 lbs	Carbody	/ Weight: 31,800
14	0' Boo	om	15	0' Boo	om	16	0' Boo	om	17	0' Boo	om	18	0' Boo	om
Load	Boom	360°	Load	Boom	360° Rated Load	Load	Boom	360°	Load	Boom	360° Rated Load	Load	Boom	
Radius (ft)	Angle (deg.)	Rated Load (lbs)	Radius (ft)	Angle (deg.)	(lbs)	Radius (ft)	Angle (deg.)	Rated Load (lbs)	Radius (ft)	Angle (deg.)	(lbs)	Radius (ft)	Angle (deg.)	Rated Load (lbs)
24.0 <b>26.0</b>	81.9 <b>81.1</b>	72,900 * <b>71,800</b> *	26.0 <b>28.0</b>	81.7 <b>80.9</b>	62,200 * <b>61,300</b> *	28.0 <b>30.0</b>	81.5 <b>80.8</b>	50,200 * <b>50,100</b> *	30.0 <b>32.0</b>	81.3 <b>80.7</b>	44,500 * <b>43,900</b> *	30.0 <b>32.0</b>	81.8 <b>81.2</b>	39,300 * <b>38,800</b> *
28.0	80.3	70,800 *	30.0	80.1	60,400 *	32.0	80.1	49,700 *	34.0	80.0	43,200 *	34.0	80.5	38,200 *
<b>30.0</b> 32.0	<b>79.4</b> 78.6	<b>69,000 *</b> 64,700 *	<b>32.0</b> 34.0	<b>79.4</b> 78.6	<b>59,400 *</b> 57,200 *	<b>34.0</b> 36.0	<b>79.4</b> 78.6	<b>49,200 *</b> 48,500 *	<b>36.0</b> 38.0	<b>79.3</b> 78.6	<b>42,500</b> * 41,900 *	<b>36.0</b> 38.0	<b>79.9</b> 79.2	<b>37,600 *</b> 37,000 *
34.0	77.8	60,500	36.0	77.8	54,100 *	38.0	77.9	47,800 *	40.0	77.9	41,200 *	40.0	78.6	36,400 *
36.0 <b>38.0</b>	76.9 <b>76.1</b>	56,200 <b>52,000</b>	38.0 <b>40.0</b>	77.0 <b>76.3</b>	51,000 * <b>48,000</b>	40.0 <b>42.0</b>	77.2 <b>76.4</b>	46,600 * <b>44,300 *</b>	42.0 <b>44.0</b>	77.2 <b>76.5</b>	40,600 * <b>40,000</b> *	42.0 <b>44.0</b>	77.9 <b>77.2</b>	35,800 * <b>35,100</b> *
40.0	75.2	48,200	42.0	75.5	45,200	44.0	75.6	42,100 *	46.0	75.8	39,300 *	46.0	76.6	34,500 *
<b>42.0</b> 44.0	<b>74.4</b> 73.5	<b>45,400</b> 42,600	<b>44.0</b> 46.0	<b>74.7</b> 73.9	<b>42,400</b> 39,600	<b>46.0</b> 48.0	<b>74.9</b> 74.1	<b>39,800</b> 37,800	<b>48.0</b> 50.0	<b>75.1</b> 74.4	<b>37,400</b> * 35,400 *	<b>48.0</b> 50.0	<b>75.9</b> 75.3	<b>33,900</b> * 33,300 *
46.0	<b>72.7</b>	39,800	48.0	<b>73.9 73.1</b>	<b>37,500</b>	<b>50.0</b>	<b>73.4</b>	35,800	<b>55.0</b>	<b>72.6</b>	31,200	<b>55.0</b>	<b>73.7</b>	<b>30,800</b> *
48.0	71.8	37,800	50.0	72.3	35,500	55.0	71.5	31,400	60.0	70.9	27,600	60.0	72.0	27,400
<b>50.0</b> 55.0	<b>71.0</b> 68.8	<b>35,800</b> 31,400	<b>55.0</b> 60.0	<b>70.3</b> 68.2	<b>31,200</b> 27,600	<b>60.0</b> 65.0	<b>69.6</b> 67.7	<b>27,800</b> 25,000	<b>65.0</b> 70.0	<b>69.1</b> 67.3	<b>24,600</b> 22,300	<b>65.0</b> 70.0	<b>70.3</b> 68.6	<b>24,400</b> 21,900
60.0	66.6	27,800	65.0	66.2	24,800	70.0	65.8	22,600	75.0	65.4	20,300	75.0	66.9	19,900
65.0 <b>70.0</b>	64.3 <b>62.0</b>	25,000 <b>22,600</b>	70.0 <b>75.0</b>	64.0 <b>61.9</b>	22,400 <b>20,300</b>	75.0 <b>80.0</b>	63.8 <b>61.8</b>	20,500 <b>18,700</b>	80.0 <b>85.0</b>	63.5 <b>61.6</b>	18,500 <b>16,800</b>	80.0 <b>85.0</b>	65.2 <b>63.4</b>	18,100 <b>16,600</b>
75.0	59.7	20,500	80.0	59.6	18,500	85.0	59.7	17,000	90.0	59.7	15,400	90.0	61.6	15,200
80.0	57.3	18,700	85.0	<b>57.4</b> 55.2	<b>17,000</b> 15,700	90.0	<b>57.6</b> 55.4	15,700	95.0	<b>57.8</b> 55.8	14,300	95.0	59.8	14,000
85.0 <b>90.0</b>	54.8 <b>52.2</b>	17,200 <b>15,900</b>	90.0 <b>95.0</b>	52.2 <b>52.8</b>	15,700 <b>14,400</b>	95.0 <b>100.0</b>	53.4 53.2	14,500 <b>13,500</b>	100.0 <b>110.0</b>	51.5	13,300 <b>11,500</b>	100.0 <b>110.0</b>	57.9 <b>54.0</b>	12,900 <b>11,100</b>
95.0	49.5	14,600	100.0	50.3	13,400	110.0	48.6	11,700	120.0	47.0	9,800	120.0	49.9	9,600
<b>100.0</b> 110.0	<b>46.8</b> 40.8	<b>13,600</b> 11,900	<b>110.0</b> 120.0	<b>45.1</b> 39.3	<b>11,700</b> 10,300	<b>120.0</b> 130.0	<b>43.6</b> 38.1	<b>10,100</b> 8,900	<b>130.0</b> 140.0	<b>42.2</b> 36.8	<b>8,700</b> 7,700	<b>130.0</b> 140.0	<b>45.6</b> 40.9	<b>8,500</b> 7,400
120.0	34.0	10,300	130.0	32.8	8,900	140.0	31.6	7,900	150.0	30.5	6,800	150.0	35.7	6,500
130.0 <b>135.0</b>	25.7 <b>20.5</b>	9,200 <b>8,830</b>	140.0	24.3	8,000	150.0	23.7	7,100	160.0	23.2	5,900	160.0 <b>165.0</b>	29.7 <b>26.5</b>	5,600 <b>5,100</b>
		-												0,:00
Ree	ves	4	Ree	ves	4	Ree	ves	2	Ree	ves	2	Ree	ves	2
	ves 0' Boo	om		ves 0' Boo	om 💮	Ree	eves	2	Ree	eves	2	Ree	eves	2
19 Load Radius	0' Boom Boom Angle	360° Rated Load	20 Load Radius	0' Boom Boom Angle	360° Rated Load	Ree	eves	2	Rec	eves	2	Ree	eves	2
Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Ree	eves	2	Ree	eves	2	Ree	eves	2
19 Load Radius	0' Boom Boom Angle	360° Rated Load	20 Load Radius	0' Boom Boom Angle	360° Rated Load	Ree	eves	2	Ree	eves	2	Ree	eves	2
Load Radius (ft) 32.0 34.0 36.0	81.6 81.0 80.4	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 *	Load Radius (ft) 34.0 36.0 38.0	0' Boom Angle (deg.) 81.5 80.9 80.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 *	Rec	eves	2	Ree	eves	2	Ree	eves	2
Load Radius (ft) 32.0 34.0 36.0 38.0	81.6 80.4 79.8	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0	81.5 80.3 81.7	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 *	Rec	eves	2	Ree	eves	2	Ree	eves	2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0	81.6 81.0 80.4 79.8 79.2 78.6	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0	81.5 80.9 80.3 79.7 79.1 78.6	360 Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,200 * 27,700 *	Ree	eves	2	Rec	eves	2	Ree	eves	2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 *	Ree	eves	2	Rec	eves	2	Ree	eves	2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0	81.6 81.0 80.4 79.8 79.2 78.6	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8	360 Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,200 * 27,700 *	Ree	eves	2	Ree	eves	2	Ree	eves	2
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 42.0 44.0 48.0 50.0	D' Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 48.0 50.0 55.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 * 26,300 * 24,900 *	Ree	eves	2	Ree	eves	2	Ree	eves	2
Load Radius (ft)  32.0 34.0 36.0 40.0 44.0 44.0 48.0 50.0 55.0	0' Boom Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 *	Ree	eves	2	Ree	eves	2	Ree	eves	2
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 46.0 55.0 60.0 65.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 26,200 * 24,000 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 46.0 48.0 50.0 65.0 70.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 20,000 *	Ree	eves	2	Ree	eves	2	Ree	eves	2
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 46.0 55.0 60.0 65.0 70.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.8	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 28,100 * 24,000 * 21,800	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 46.0 48.0 50.0 60.0 65.0 70.0 75.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 *	Ree	eves	2	Ree	eves	2	Ree	eves	2
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 75.0 80.0	81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800 19,900 18,000	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 75.0 80.0 85.0	81.5 80.9 80.3 79.7 79.1 78.6 76.8 75.3 73.8 72.4 70.9 69.3 66.2	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 18,500 * 17,100 * 15,900 *	Ree	eves	2	Ree	eves	2	Ree	eves	
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0 60.0 65.0 75.0 80.0 85.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 21,800 19,900 18,000 16,400	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 70.0 75.0 80.0 90.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700	Ree	eves	2	Ree	eves	2	Ree	eves	
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 75.0 80.0	81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800 19,900 18,000	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 75.0 80.0 85.0	81.5 80.9 80.3 79.7 79.1 78.6 76.8 75.3 73.8 72.4 70.9 69.3 66.2	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 18,500 * 17,100 * 15,900 *	Ree	eves	2	Ree	eves	2	Ree	eves	
Load Radius (ft)  32.0 34.0 36.0 40.0 44.0 44.0 48.0 55.0 65.0 70.0 85.0 90.0 95.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 24,000 * 24,000 * 24,000 * 24,000 * 21,800 19,900 18,000 15,000 13,900 12,900	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0	80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,300 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600	Ree	eves	2	Ree	eves		Ree	eves	
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 48.0 55.0 65.0 75.0 85.0 90.0 91.0 110.0	81.6 81.0 80.4 79.8 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7 56.2	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 30,600 * 29,600 * 24,000 * 24,000 * 21,800 19,900 18,000 15,000 13,900 11,000	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 75.0 80.0 90.0 95.0 100.0 110.0 120.0	81.5 80.9 81.5 80.9 80.3 79.7 79.1 78.6 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1 54.6	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200	Ree	eves	2	Ree	eves		Ree	eves	
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 44.0 55.0 65.0 65.0 75.0 85.0 90.0 110.0 120.0 130.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 24,000 * 21,800 16,400 15,000 13,900 12,900 11,000 9,400 8,200	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0 75.0 90.0 90.0 100.0 110.0 130.0 140.0	81.5 80.9 80.3 79.7 79.1 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 54.6 51.1 47.2	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	Ree	eves		Ree	eves		Ree	eves	
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 44.0 55.0 65.0 75.0 85.0 95.0 100.0 120.0 130.0 140.0	81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 48.5 44.3	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 24,000 * 21,900 15,000 13,900 12,900 11,000 9,400 8,200 7,200	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0 75.0 90.0 90.0 100.0 110.0 130.0 140.0 150.0	81.5 80.9 80.3 79.7 79.1 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2 43.1	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500 5,200 *	Ree	eves		Ree	eves		Ree	eves	
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0 65.0 75.0 85.0 90.0 95.0 100.0 120.0 130.0 140.0 150.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7 56.2 59.7 56.3 39.7	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 29,600 * 24,000 * 24,000 * 21,800 15,000 16,400 15,000 11,000 9,400 8,200 7,200 6,300	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0 75.0 90.0 90.0 100.0 110.0 130.0 140.0	81.5 80.9 80.3 79.7 79.1 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 54.6 51.1 47.2	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	Ree	eves		Ree	eves		Ree	eves	
Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 55.0 65.0 75.0 85.0 95.0 100.0 120.0 130.0 140.0	81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5 59.7 56.2 52.5 48.5 44.3	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 24,000 * 21,900 15,000 13,900 12,900 11,000 9,400 8,200 7,200	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 70.0 75.0 90.0 90.0 100.0 110.0 130.0 140.0 150.0	81.5 80.9 80.3 79.7 79.1 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2 43.1	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 17,100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500 5,200 *	Ree	eves		Ree	eves		Ree	eves	

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	80	<b>'</b> Boor	n																				
		30 t	t <b>J</b> ib					40 f	t <b>J</b> ib					50 t	t <b>J</b> ib					60 t	t <b>J</b> ib		
	(	O set Ar	igle (d	leg.)			(	) set An	gle (a	leg.)			(	O set Ar	igle (d	eg.)			(	O set Ar	gle (d	eg.)	
land	10		1	30		Land	10	Detect	Land	30		Land	10		Land	30		Land	10		Land	30	Datast
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (Ibs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
30.0 <b>32.0</b>	79.3 <b>78.0</b>	24,000* <b>24,000</b> *				34.0 <b>36.0</b>	79.3 <b>78.3</b>	24,000* <b>24,000</b> *				38.0 <b>40.0</b>	79.3 <b>78.4</b>	20,000* <b>20,000</b> *				40.0 <b>45.0</b>	79.8 <b>77.7</b>	18,000* <b>18,000</b> *			
34.0	77.0	24,000*				38.0	77.4	24,000*				45.0	76.1	20,000*				50.0	75.6	17,850*			
36.0	75.9	24,000*	20.0	70.6	21 000*	40.0	76.4	24,000*	45.0	70.7	1F 2C0*	50.0	73.8	20,000*	55.0	70.0	11 000*	55.0	73.3	16,180*	600	70.7	0.050*
38.0 <b>40.0</b>	74.9 <b>73.8</b>	24,000* <b>24,000</b> *	38.0 <b>40.0</b>	79.6 <b>78.5</b>	21,000* <b>21,000</b> *	45.0 <b>50.0</b>	73.9 <b>71.4</b>	24,000* <b>24,000</b> *	45.0 <b>50.0</b>	79.7 <b>77.1</b>	15,360* <b>14,480</b> *	55.0 <b>60.0</b>	71.3 <b>68.9</b>	18,560* <b>17,080</b> *	55.0 <b>60.0</b>	78.0 <b>75.5</b>	11,080* <b>10,490</b> *	60.0 <b>65.0</b>	71.2 <b>69.0</b>	14,850* <b>13,730</b> *	60.0 <b>65.0</b>	78.7 <b>76.4</b>	8,950* <b>8,480</b> *
45.0	71.1	24,000*	45.0	75.7	20,700*	55.0	68.7	22,480*	55.0	74.3	13,640*	65.0	66.5	15,800*	65.0	73.0	9,980*	70.0	66.7	12,760*	70.0	74.1	8,060*
50.0	68.3	24,000*	50.0	72.8	19,510*	60.0	66.1	20,700*	60.0	71.6	12,980*	70.0	64.0	14,720*	70.0	70.4	9,540*	75.0	64.3	11,860*	75.0	71.5	7,670*
55.0 <b>60.0</b>	65.3 <b>62.4</b>	24,000* <b>24,000</b> *	55.0 <b>60.0</b>	69.7 <b>66.7</b>	18,380* <b>17,500</b> *	65.0 <b>70.0</b>	63.4 <b>60.6</b>	19,180* <b>17,870</b> *	65.0 <b>70.0</b>	68.8 <b>65.9</b>	12,360* <b>11,830</b> *	75.0 <b>80.0</b>	61.3 <b>58.7</b>	13,710* <b>12,870</b> *	75.0 <b>80.0</b>	67.6 <b>64.8</b>	9,100* <b>8,730</b> *	80.0 <b>85.0</b>	61.9 <b>59.5</b>	11,130* <b>10,470</b> *	80.0 <b>85.0</b>	69.0 <b>66.5</b>	7,340* <b>7,030</b> *
65.0	59.3	22,920	65.0	63.6	16,710*	75.0	57.6	16,660*	75.0	62.7	11,350*	85.0	56.0	12,140*	85.0	62.0	8,420*	90.0	57.0	9,870*	90.0	63.9	6,760*
70.0	56.2	20,810	70.0	60.3	16,020*	80.0	54.6	15,670*	80.0	59.6	10,930*	90.0	53.2	11,500*	90.0	59.0	8,130*	95.0	54.2	9,320*	95.0	60.9	6,500*
75.0	52.8	18,910	75.0	56.7	15,380*	85.0	51.5	14,810*	85.0	56.3	10,560*	95.0	50.0	10,890*	95.0	55.6	7,840*	100.0	51.5	8,860*	100.0	58.1	6,280*
<b>80.0</b> 85.0	<b>49.3</b> 45.7	<b>17,370</b> 16,020	80.0	53.1	14,850*	<b>90.0</b> 95.0	<b>48.3</b> 44.6	<b>14,040</b> * 13,310*	90.0	52.9	10,250*	<b>100.0</b> 105.0	<b>46.9</b> 43.6	<b>10,360</b> * 9,890*	100.0	52.3	7,620*	<b>105.0</b> 110.0	<b>48.7</b> 45.7	<b>8,440</b> * 8,060*	<b>105.0</b> 110.0	<b>55.0</b> 51.8	<b>6,100</b> * 5,930*
90.0	41.8	14,850				100.0	40.8	12,690*				110.0	40.0	9,470*				115.0	42.3	7,690*	110.0	31.0	3,730
95.0	37.2	13,750				105.0	36.7	12,120				115.0	35.8	9,080*				120.0	38.8	7,380*			
100.0	32.4	12,830				110.0	32.1	11,350*										125.0	35.1	7,120*			
Ree	ves	1	Ree	eves	1	Ree	ves	1	Ree	eves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1	Ree	eves	1
	90	' Boor	n																				
		30 t	t Jib					40 f	t <b>J</b> ib					501	t Jib					601	t <b>J</b> ib		
	(	30 t O set An	t <b>J</b> ib	leg.)			(	40 f O set An		leg.)			(	50 t O set Ar		eg.)			(	60 t O set Ar		eg.)	
	10	O set An	t Jib gle (d	30			10	Set An	gle (a	30			10	O set An	gle (d	30			10	O set An	gle (d	30	
Load Radius (ft)		O set An	t <b>J</b> ib	30 Boom	Rated Load (lbs)	Load Radius (ft)				30   Boom	Rated Load (lbs)	Load Radius (ft)		O set Ar		<u> </u>	Rated Load (lbs)	Load Radius (ft)		O set Ar		30 Boom	Rated Load (lbs)
Radius (ft) 32.0	Boom Angle (deg.) 79.1	Rated Load (lbs) 24,000*	egle (d Load Radius	30 Boom Angle	Rated Load	Radius (ft) 36.0	Boom Angle (deg.) 79.3	Pated Load (lbs) 24,000*	gle (a Load Radius	30 Boom Angle	Rated Load	Radius (ft) 38.0	Boom Angle (deg.)	Rated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Rated Load	Radius (ft) 45.0	Boom Angle (deg.) 78.6	Rated Load (lbs) 18,000*	gle (d Load Radius	30 Boom Angle	Load
Radius (ft) 32.0 <b>34.0</b>	10 Boom Angle (deg.) 79.1 <b>78.1</b>	Rated Load (lbs) 24,000*	egle (d Load Radius	30 Boom Angle	Rated Load	Radius (ft) 36.0 <b>38.0</b>	10 Boom Angle (deg.) 79.3 <b>78.4</b>	Pated Load (lbs) 24,000*	gle (a Load Radius	30 Boom Angle	Rated Load	Radius (ft) 38.0 <b>40.0</b>	80.0 79.2	Rated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Rated Load	### Radius (ft) 45.0 <b>50.0</b>	10 Boom Angle (deg.) 78.6 <b>76.6</b>	Rated Load (lbs) 18,000* 18,000*	gle (d Load Radius	30 Boom Angle	Load
32.0 34.0 36.0	79.1 77.1	Rated Load (lbs) 24,000* 24,000*	egle (d Load Radius	30 Boom Angle	Rated Load	### Radius (ft)  36.0  38.0  40.0	79.3 78.4 77.5	Rated Load (lbs) 24,000* 24,000*	gle (a Load Radius	30 Boom Angle	Rated Load	Radius (ft) 38.0 40.0 45.0	80.0 79.2 77.1	Rated Load (lbs) 20,000* 20,000*	Load Radius	30 Boom Angle	Rated Load	### Adius (ft) 45.0	78.6 74.5	Rated Load (lbs) 18,000* 16,970*	Load Radius (ft)	30 Boom Angle (deg.)	Load (lbs)
Radius (ft) 32.0 <b>34.0</b>	79.1 77.1	Rated Load (lbs) 24,000*	egle (d Load Radius	30 Boom Angle	Rated Load	Radius (ft) 36.0 <b>38.0</b>	10 Boom Angle (deg.) 79.3 <b>78.4</b>	Pated Load (lbs) 24,000*	gle (a Load Radius	30 Boom Angle	Rated Load	Radius (ft) 38.0 <b>40.0</b>	80.0 79.2	Rated Load (lbs) 20,000*	Load Radius	30 Boom Angle	Rated Load	### Radius (ft) 45.0 <b>50.0</b>	10 Boom Angle (deg.) 78.6 <b>76.6</b>	Rated Load (lbs) 18,000* 18,000*	Load Radius (ft)	30 Boom Angle	Load
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0	79.1 77.1 76.2 75.2 72.7	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)  40.0  45.0	30 Boom Angle (deg.) 79.5 77.0	Rated Load (lbs)  21,000* 21,000*	36.0 38.0 40.0 45.0 50.0 55.0	79.3 78.4 77.5 75.2 72.9	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)  50.0 55.0	30 Boom Angle (deg.) 78.2 75.6	Rated Load (lbs)  14,810* 14,020*	88.0 40.0 45.0 50.0 60.0	80.0 79.2 77.1 75.0 72.7	Rated Load (lbs) 20,000* 20,000* 20,000* 19,550* 18,000*	Load Radius (ft) 55.0 60.0	30 Boom Angle (deg.) 78.9 76.7	Rated Load (lbs)  11,300* 10,730*	45.0 50.0 55.0 60.0 65.0 70.0	78.6 76.6 74.5 70.5 68.4	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470*	Load Radius (ft)  60.0 65.0 70.0	30 Boom Angle (deg.) 79.5 77.4 75.3	9,100* 8,660* 8,240*
32.0 34.0 36.0 38.0 40.0 45.0 50.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2	Pated Load (lbs)  24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)  40.0 45.0	30 Boom Angle (deg.) 79.5 77.0 74.4	Pated Load (lbs)  21,000* 21,000* 20,100*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 60.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020*	Load Radius (ft) 50.0 55.0 60.0	30 Boom Angle (deg.) 78.2 75.6 73.2	Rated Load (lbs)  14,810* 14,020* 13,330*	Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0	80.0 79.2 77.1 75.0 72.7 70.5 68.3	Pated Load (lbs)  20,000* 20,000* 20,000* 19,550* 18,000* 16,730*	Load Radius (ft)  55.0 60.0 65.0	30 Boom Angle (deg.) 78.9 76.7 74.4	Rated Load (lbs)  11,300* 10,730* 10,250*	### Radius (ft)   45.0   50.0   55.0   60.0   65.0   70.0   75.0	78.6 76.6 74.5 72.5 70.5 68.4 66.1	Pated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520*	Load Radius (ft)  60.0 65.0 70.0 75.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9	9,100* 8,660* 8,240* 7,870*
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0	79.1 77.1 76.2 75.2 72.7	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)  40.0  45.0	30 Boom Angle (deg.) 79.5 77.0	Rated Load (lbs)  21,000* 21,000*	36.0 38.0 40.0 45.0 50.0 55.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)  50.0 55.0	30 Boom Angle (deg.) 78.2 75.6	Rated Load (lbs)  14,810* 14,020*	88.0 40.0 45.0 50.0 60.0	80.0 79.2 77.1 75.0 72.7	Rated Load (lbs) 20,000* 20,000* 20,000* 19,550* 18,000*	Load Radius (ft) 55.0 60.0	30 Boom Angle (deg.) 78.9 76.7	Rated Load (lbs)  11,300* 10,730*	45.0 50.0 55.0 60.0 65.0 70.0	78.6 76.6 74.5 70.5 68.4	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470*	Load Radius (ft)  60.0 65.0 70.0	30 Boom Angle (deg.) 79.5 77.4 75.3	9,100* 8,660* 8,240*
82.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000*	Load Radius (ft)  40.0  45.0  50.0  60.0  65.0	30 Boom Angle (deg.) 79.5 77.0 74.4 71.6 68.9 66.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 17,320*	<b>Radius</b> (ft) 36.0 38.0 40.0 45.0 50.0 55.0 60.0 70.0 75.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 22,000* 22,020* 20,410* 19,040* 17,760*	Load Radius (ft)  50.0  55.0  60.0  65.0  70.0  75.0	78.2 75.6 73.2 768.1 65.3	Pated Load (lbs)  14,810* 14,020* 13,330* 12,760* 12,230* 11,720*	Radius (ft) 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0	### To Provide the Control of the Co	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,660*	55.0 60.0 65.0 70.0 75.0 80.0	78.9 76.7 74.4 72.0 69.5 67.0	Pated Load (lbs)  11,300* 10,730* 10,250* 9,780* 9,360* 8,990*	### Radius (ft)   45.0   50.0   55.0   60.0   65.0   70.0   75.0   80.0   85.0   90.0	76.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 12,520* 11,770* 11,080* 10,470*	60.0 65.0 70.0 80.0 85.0 90.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0	9,100* 8,660* 8,240* 7,870* 7,230* 6,960*
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 20,540	40.0 45.0 55.0 65.0 70.0	30 Boom Angle (deg.) 79.5 77.0 74.4 71.6 68.9 66.1 63.3	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 17,320* 16,620*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 60.0 70.0 75.0 80.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 16,730*	50.0 55.0 60.0 65.0 70.0 75.0 80.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5	14,810* 14,020* 13,330* 12,760* 11,720* 11,300*	<b>Radius</b> (ft) 38.0 40.0 45.0 50.0 65.0 65.0 70.0 75.0 80.0 85.0	80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3 58.8	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,890*	55.0 60.0 65.0 75.0 80.0 85.0	78.9 76.7 74.4 72.0 69.5 67.0 64.5	11,300* 10,730* 10,250* 9,360* 8,990* 8,680*	<b>Radius</b> (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	76.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890*	60.0 65.0 70.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4	9,100* 8,660* 8,240* 7,870* 7,530* 7,230* 6,960* 6,700*
Radius (ft) 32.0 34.0 36.0 40.0 45.0 50.0 55.0 60.0 70.0 75.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 56.4	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000* 21,000*	Load Radius (ft)  40.0  45.0  50.0  60.0  65.0	30 Boom Angle (deg.) 79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960*	75.0 80.0 70.0 75.0 75.0 80.0 85.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 15,800*	50.0 55.0 65.0 65.0 70.0 75.0 80.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7	14,810* 14,020* 13,330* 12,760* 11,720* 11,300* 10,930*	Radius (ft) 38.0 40.0 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0	80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3 58.8 56.3	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,660* 12,890* 12,210*	55.0 60.0 65.0 70.0 85.0 90.0	78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8	11,300* 10,730* 10,730* 10,250* 9,360* 8,990* 8,680* 8,370*	### Radius (ft)   45.0   50.0   55.0   60.0   65.0   70.0   75.0   80.0   90.0   95.0   100.0	78.6 76.6 74.5 72.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390*	60.0 65.0 70.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4 60.9	9,100* 8,660* 8,240* 7,870* 7,230* 6,960* 6,700* 6,480*
70.0 Radius (ft) 32.0 34.0 36.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 53.5	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 20,540	40.0 45.0 55.0 60.0 65.0 70.0 75.0	30 Boom Angle (deg.) 79.5 77.0 74.4 71.6 68.9 66.1 63.3	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 17,320* 16,620*	<b>Radius</b> (ft) 36.0 38.0 40.0 45.0 50.0 65.0 60.0 70.0 75.0 80.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 16,730*	50.0 55.0 60.0 65.0 70.0 75.0 80.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5	14,810* 14,020* 13,330* 12,760* 11,720* 11,300*	<b>Radius</b> (ft) 38.0 40.0 45.0 50.0 65.0 65.0 70.0 75.0 80.0 85.0	80.0 79.2 77.1 75.0 72.7 70.5 68.3 66.1 63.6 61.3 58.8	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,890*	55.0 60.0 65.0 75.0 80.0 85.0	78.9 76.7 74.4 72.0 69.5 67.0 64.5	11,300* 10,730* 10,250* 9,360* 8,990* 8,680*	<b>Radius</b> (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	76.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890*	60.0 65.0 70.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.5 77.4 75.3 72.9 70.7 68.4 66.0 63.4	9,100* 8,660* 8,240* 7,870* 7,530* 7,230* 6,960* 6,700*
Radius (ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 675.0 80.0 85.0 90.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 53.5 50.4 47.1	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,00	40.0 45.0 45.0 65.0 77.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 15,800* 14,740 13,620 12,690	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 11,220* 11,300* 10,930* 10,580*	Radius (ft) 38.0 40.0 45.0 50.0 65.0 65.0 70.0 85.0 90.0 95.0 100.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 68.3 66.1 63.6 61.3 58.8 56.3 53.6 50.9 48.0	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,890* 11,570* 11,020* 10,530*	55.0 60.0 65.0 75.0 80.0 90.0 95.0	78.9 76.7 74.4 72.0 69.5 67.0 64.5 61.8 58.9	11,300* 10,730* 10,250* 9,360* 8,990* 8,680* 8,370* 8,110*	### Radius (ft)   45.0   50.0   55.0   60.0   65.0   75.0   80.0   85.0   90.0   100.0   115.0   115.0	76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390* 8,950* 8,550* 8,150*	Gle (d Radius (ft) 60.0 65.0 70.0 80.0 85.0 90.0 95.0 100.0 105.0	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) 32.0 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	70.2 67.5 64.9 62.2 59.4 47.1 43.4	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,00	40.0 45.0 45.0 65.0 77.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 105.0	70 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0 42.7	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 15,800* 14,740 13,620 12,690 11,860	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 11,220* 11,300* 10,930* 10,580*	Redius (ft)  38.0  40.0  45.0  50.0  65.0  70.0  85.0  90.0  95.0  100.0  110.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 68.3 66.1 63.6 61.3 58.8 553.6 50.9 48.0 45.1	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,890* 12,210* 11,570* 11,020* 10,530* 10,070*	Load   Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	7,870* Rated Load (lbs)  11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	### Radius (ft)   45.0   50.0   55.0   60.0   65.0   70.0   75.0   80.0   95.0   100.0   105.0   115.0   120.0	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	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390* 8,950* 8,550* 8,150* 7,820*	Gle (d Load Padius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	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) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 90.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 47.1 43.4 39.7	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,00	40.0 45.0 45.0 65.0 77.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft) 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	70 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0 42.7 39.1	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 17,760* 15,800* 14,740 13,620 12,690	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 11,220* 11,300* 10,930* 10,580*	Radius (ft) 38.0 40.0 45.0 50.0 65.0 65.0 70.0 85.0 90.0 95.0 100.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 68.3 66.1 63.6 61.3 58.8 56.3 53.6 50.9 48.0	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,890* 11,570* 11,020* 10,530*	Load   Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	7,870* Rated Load (lbs)  11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	### Radius (ft)   45.0   50.0   55.0   60.0   65.0   75.0   80.0   85.0   90.0   100.0   115.0   115.0	76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390* 8,950* 8,550* 8,150*	Gle (d Load Padius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	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) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	79.1 78.1 77.1 76.2 75.2 72.7 70.2 67.5 64.9 62.2 59.4 47.1 43.4 39.7	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,00	40.0 45.0 45.0 65.0 77.0 80.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft)  36.0  38.0  40.0  45.0  55.0  60.0  65.0  70.0  75.0  80.0  85.0  90.0  95.0  100.0  105.0  110.0	70 Boom Angle (deg.) 79.3 78.4 77.5 75.2 72.9 70.4 68.1 65.6 63.2 60.4 57.8 55.1 52.3 49.1 46.0 42.7 39.1	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 11,740 13,620 12,690 11,860 11,080	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 11,220* 11,300* 10,930* 10,580*	Redius (ft)  38.0  40.0  45.0  55.0  60.0  75.0  80.0  95.0  100.0  110.0  115.0	70.5 66.1 63.6 61.3 58.8 50.9 48.0 48.0 48.1 48.0 48.1 48.0 48.1 41.7	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 18,000* 15,580* 14,520* 13,660* 12,890* 12,210* 11,570* 11,020* 10,530* 10,070* 9,650*	Load   Radius (ft)	78.9 76.7 74.4 72.0 69.5 61.8 58.9 56.1	7,870* Rated Load (lbs)  11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	Radius (tt) 45.0 50.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 100.0 110.0 115.0 120.0 125.0	76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7 43.8 40.7	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390* 8,950* 8,550* 8,150* 7,820* 7,530*	Gle (d Load Padius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	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) 32.0 34.0 36.0 38.0 40.0 45.0 55.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.1 78.1 77.1 76.2 75.2 77.7 70.2 67.5 64.9 62.2 59.4 47.1 43.4 39.7 35.6	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,00	40.0 45.0 45.0 65.0 75.0 85.0 85.0	79.5 77.0 74.4 71.6 68.9 66.1 63.3 60.2 57.1	21,000* 21,000* 21,000* 20,100* 19,020* 18,120* 16,620* 15,960* 15,430*	Radius (ft)  36.0  38.0  40.0  45.0  55.0  60.0  65.0  70.0  75.0  80.0  85.0  90.0  95.0  100.0  105.0  110.0	70.4 46.0 42.7 39.1 35.0	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 22,020* 20,410* 19,040* 11,740 13,620 12,690 11,860 11,080	Load   Radius (ft)	78.2 75.6 73.2 70.7 68.1 65.3 62.5 59.7 56.7	14,810* 14,020* 13,330* 12,760* 11,220* 11,300* 10,930* 10,580*	Radius (tt)  38.0  40.0  45.0  50.0  55.0  60.0  65.0  70.0  75.0  90.0  105.0  115.0  125.0	70 Boom Angle (deg.) 80.0 79.2 77.1 75.0 68.3 66.1 63.6 61.3 58.8 553.6 50.9 48.0 45.1 41.7 38.2	Rated Load (lbs)  20,000* 20,000* 20,000* 20,000* 19,550* 16,730* 15,580* 14,520* 13,660* 12,210* 11,570* 11,020* 10,530* 10,070* 9,650* 9,300*	Load   Radius (ft)	78.9 76.7 76.7 76.7 69.5 67.0 64.5 61.8 58.9 56.1 53.1	7,870* Rated Load (lbs)  11,300* 10,730* 10,250* 9,780* 9,360* 8,990* 8,680* 8,370* 8,110* 7,870*	Fadius (ft) 45.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 105.0 115.0 120.0 135.0	78.6 76.6 74.5 70.5 68.4 66.1 64.0 61.8 59.5 57.1 54.7 52.2 49.6 46.7 43.8 40.7	Rated Load (lbs)  18,000* 18,000* 16,970* 15,630* 14,460* 13,470* 12,520* 11,770* 11,080* 10,470* 9,890* 9,390* 8,950* 8,550* 8,150* 7,820* 7,530* 7,270*	Gle (d Radius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 115.0	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*

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	100	)' Boo	m																				
			t <b>J</b> ib					40 f	t <b>J</b> ib					50 f	t <b>J</b> ib					60 t	t <b>J</b> ib		
		O set An	gle (d	<u> </u>				O set An	igle (d	<u> </u>				) set An	gle (d	0 /				O set An	igle (d	<u> </u>	
Load Radius	Boom Angle	Rated Load	Load Radius	30 Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	30 Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	30 Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	30 Boom Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
32.0 <b>34.0</b>	79.9 <b>79.0</b>	24,000* <b>24,000</b> *				36.0 <b>38.0</b>	80.0 <b>79.2</b>	24,000* <b>24,000</b> *				40.0 <b>45.0</b>	79.9 <b>78.0</b>	20,000* <b>20,000</b> *				45.0 <b>50.0</b>	79.3 <b>77.5</b>	18,000* <b>18,000</b> *			
36.0	78.1	24,000*				40.0	78.4	24,000*				50.0	76.0	20,000*				55.0	75.5	17,720*			
38.0	77.2	24,000*				45.0	76.3	24,000*			4= 4000	55.0	73.9	20,000*	55.0	79.7	11,500*	60.0	73.7	16,350*			
40.0 <b>45.0</b>	76.4 <b>74.1</b>	24,000* <b>24,000</b> *	45.0	78.0	21,000*	50.0 <b>55.0</b>	74.2 <b>71.9</b>	24,000* <b>24,000</b> *	50.0 <b>55.0</b>	79.1 <b>76.7</b>	15,100* <b>14,320</b> *	60.0 <b>65.0</b>	71.9 <b>69.9</b>	18,930* <b>17,590</b> *	60.0 <b>65.0</b>	77.7 <b>75.5</b>	10,950* <b>10,470</b> *	65.0 <b>70.0</b>	71.8 <b>69.9</b>	15,160* <b>14,130</b> *	65.0 <b>70.0</b>	78.3 <b>76.3</b>	8,810* <b>8,420</b> *
50.0	71.8	24,000*	50.0	75.7	20,650*	60.0	69.7	23,280*	60.0	74.5	13,660*	70.0	67.8	16,420*	70.0	73.4	10,030*	75.0	67.8	13,160*	75.0	74.2	8,040*
55.0	69.3	24,000*	55.0	73.2	19,570*	65.0	67.5	21,620*	65.0	72.2	13,090*	75.0	65.6	15,340*	75.0	71.1	9,610*	80.0	65.8	12,360*	80.0	72.1	7,710*
60.0 <b>65.0</b>	67.0 <b>64.5</b>	24,000* <b>22,440</b>	60.0 <b>65.0</b>	70.7 <b>68.2</b>	18,690* <b>17,900</b> *	70.0 <b>75.0</b>	65.3 <b>62.8</b>	20,190* <b>18,620</b>	70.0 <b>75.0</b>	69.9 <b>67.3</b>	12,560* <b>12,050</b> *	80.0 <b>85.0</b>	63.4 <b>61.2</b>	14,440* <b>13,640</b> *	80.0 <b>85.0</b>	68.8 <b>66.5</b>	9,230* <b>8,920</b> *	85.0 <b>90.0</b>	63.8 <b>61.7</b>	11,660* <b>11,040</b> *	85.0 <b>90.0</b>	70.0 <b>67.9</b>	7,420* <b>7,160</b> *
70.0	62.1	20,320	70.0	65.7	17,190*	80.0	60.4	17,060	80.0	64.9	11,640*	90.0	59.0	12,910*	90.0	64.2	8,610*	95.0	59.5	10,420*	95.0	65.5	6,900*
75.0	.0 59.4 18,400 75.0 62.9 16,510* 85.0 58.0 15,710 85.0					62.4	11,260*	95.0	56.5	12,230*	95.0	61.6	8,330*	100.0	57.3	9,920*	100.0	63.2	6,670*				
80.0 <b>85.0</b>	0 56.7 16,860 80.0 60.2 15,960* 90.0 55. 0 <b>54.0 15,520 85.0 57.4 15,450* 95.0 52</b> .						14,500	90.0	59.8 <b>56.9</b>	10,910* <b>10,580</b> *	100.0 <b>105.0</b>	54.1 <b>51.6</b>	11,660* <b>11,150</b> *	100.0 <b>105.0</b>	59.1 <b>56.4</b>	8,090* <b>7,870</b> *	105.0 <b>110.0</b>	55.1 <b>52.7</b>	9,450* <b>9,030</b> *	105.0 <b>110.0</b>	60.9 <b>58.4</b>	6,450* <b>6,280</b> *	
90.0	5.0         54.0         15,520         85.0         57.4         15,450*         95.0         52.8         13,380         95.0           0.0         51.2         14,320         90.0         54.5         14,570         100.0         50.1         12,450         100.0					54.0	10,310*	110.0	49.0	10,670*	110.0	53.7	7,690*	115.0	50.2	8,610*	115.0	55.7	6,100*				
95.0	48.1	13,220	95.0	51.2	13,420	105.0	47.2	11,590				115.0	46.1	10,200*				120.0	47.7	8,280*	120.0	53.1	5,950*
100.0 <b>105.0</b>	45.0 <b>41.7</b>	12,270 <b>11,460</b>				110.0 <b>115.0</b>	44.3 <b>40.9</b>	10,840 <b>10,110</b>				120.0 <b>125.0</b>	43.2 <b>40.2</b>	9,590 <b>9,010</b>				125.0 <b>130.0</b>	45.1 <b>42.3</b>	7,950* <b>7,670</b> *			
110.0	38.1	10,690				120.0	37.4	9,470				130.0	36.8	8,480				135.0	39.4	7,400*			
115.0	34.0	9,980				125.0	33.7	8,860*				135.0	33.2	7,800*				140.0	35.9	7,140*			
						<b>D</b>			- Do-			<b>D</b>			- Do-			145.0	32.4	6,810*	- Do		
Ree		1 V Doc		ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1
	110	)' Boo						40.4	. FL					F0.4	. FL			_		004	. FL		
		30 t Oset An	it Jib ale (d	ea.)			(	3 set An	t <b>J</b> ib ale (d	ea.)				out O set An	t <b>J</b> ib ale (d	ea.)				O set An	t <b>Ji</b> b ale (d	ea.)	
	10		9.0 (4	30	)		10		9.0 (4	30			10		9.0 (4	30			10		9.0 (0	30	
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
34.0	79.8	24,000*				38.0	79.9	24,000*				45.0	78.8	20,000*				45.0	80.0	18,000*			
<b>36.0</b> 38.0	<b>79.0</b> 78.2	<b>24,000</b> * 24,000*				<b>40.0</b> 45.0	<b>79.2</b> 77.2	<b>24,000</b> * 24,000*				<b>50.0</b> 55.0	<b>76.9</b> 75.0	<b>20,000</b> * 20,000*				<b>50.0</b> 55.0	<b>78.3</b> 76.4	<b>18,000*</b> 18,000*			
40.0	77.3	24,000*				50.0	75.3	24,000*	50.0	79.9	15,360*	60.0	73.1	19,810*	60.0	78.5	11,150*	60.0	74.7	17,040*			
45.0	75.3	24,000*	45.0	79.0	21,000*	55.0		24,000*	55.0	77.7	14,610*	65.0	71.2	18,430*	65.0	76.5	10,670*	65.0	72.9	15,820*	65.0		8,970*
<b>50.0</b> 55.0	<b>73.2</b> 70.9	<b>24,000</b> * 24,000*	<b>50.0</b> 55.0	<b>76.8</b> 74.5	<b>21,000</b> * 20,100*	<b>60.0</b> 65.0		<b>24,000</b> * 22,500	<b>60.0</b> 65.0	<b>75.6</b> 73.5	<b>13,970</b> * 13,400*	<b>70.0</b> 75.0	<b>69.3</b> 67.2	<b>17,230</b> * 16,110*	<b>70.0</b> 75.0	<b>74.6</b> 72.4	<b>10,250</b> * 9,830*	<b>70.0</b> 75.0	<b>71.1</b> 69.2	<b>14,770</b> * 13,800*	<b>70.0</b> 75.0	<b>77.2</b> 75.2	<b>8,570</b> * 8,200*
60.0	68.7	24,000*	60.0		19,220*	70.0		20,370	70.0	71.4	12,870*	80.0	65.2	15,160*	80.0	70.4	9,470*	80.0	67.3	12,960*	80.0		7,890*
65.0	66.5	22,260	65.0	70.0	18,430*	75.0		18,450	75.0	69.1	12,380*	85.0	63.2	14,350*	85.0	68.3	9,140*	85.0	65.5	12,230*	85.0	71.4	7,580*
<b>70.0</b> 75.0	<b>64.3</b> 61.8	<b>20,150</b> 18,230	<b>70.0</b> 75.0	<b>67.7</b> 65.1	<b>17,700</b> * 17,040*	<b>80.0</b> 85.0		<b>16,880</b> 15,520	<b>80.0</b> 85.0	<b>66.9</b> 64.6	<b>11,940</b> * 11,570*	<b>90.0</b> 95.0	<b>61.2</b> 58.9	<b>13,600</b> * 12,890*	<b>90.0</b> 95.0	<b>66.1</b> 63.8	<b>8,840</b> * 8,550*	<b>90.0</b> 95.0	<b>63.6</b> 61.5	<b>11,590</b> * 10,950*	<b>90.0</b> 95.0	<b>69.4</b> 67.2	<b>7,310</b> * 7,050*
80.0	59.4	16,680	80.0	<b>62.7</b>	16,460*	90.0		14,320	90.0	62.2	11,220*	100.0	56.7	12,890 12,300*	100.0	61.5	8,310*	100.0	<b>59.5</b>	10,930	100.0		6,830*
85.0		15,340	85.0	60.2	15,650	95.0		13,200	95.0	59.7	10,890*	105.0	54.5	11,530	105.0		8,090*	105.0	57.5	9,940*	105.0	63.0	6,630*
<b>90.0</b> 95.0	<b>54.5</b> 51.8	<b>14,150</b> 13,020	<b>90.0</b> 95.0	<b>57.6</b> 54.8	<b>14,440</b> 13,270	100.0 105.0		<b>12,250</b> 11,410	100.0 105.0	<b>57.1</b> 54.5	<b>10,600</b> * 10,330*	<b>110.0</b> 115.0	<b>52.2</b> 49.6	<b>10,780</b> 10,030	<b>110.0</b> 115.0		<b>7,890</b> * 7,690*	<b>110.0</b> 115.0	<b>55.4</b> 53.1	<b>9,500</b> * 9,080*	<b>110.0</b> 115.0	<b>60.8</b> 58.4	<b>6,430</b> * 6,260*
100.0	49.1	12,100	100.0	l	12,320	110.0		10,640	110.0	51.8	10,330** 10,110*	120.0	49.0 47.1	9,390	113.0	J4.0	7,030	120.0		8,700*	120.0	56.1	6,100*
105.0	46.3	11,260				115.0		9,920				125.0	44.5	8,810				125.0	48.6	8,370*	125.0	53.6	5,970*
<b>110.0</b> 115.0	<b>43.3</b> 39.9	<b>10,510</b> 9,780				<b>120.0</b> 125.0		<b>9,300</b> 8,730				<b>130.0</b> 135.0	<b>41.8</b> 38.8	<b>8,280</b> 7,800				<b>130.0</b> 135.0	<b>46.2</b> 43.6	<b>8,060</b> * 7,780*			
120.0		9,780				130.0		8,730 <b>8,200</b>				140.0	35.4	7,800 <b>7,250</b> *				140.0	43.0 <b>40.8</b>	7,780° <b>7,380</b>			
125.0			1	1	1							1		, -					37.9		1	ı	
	32.7	8,420*				135.0	32.5	7,420*										145.0		6,960			
	32.7	8,420*				135.0	32.5	7,420*										150.0		6,370*			

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	ft <b>J</b> ib		ft <b>J</b> ib		ft Jib		ft Jib
	ngle (deg.) 30	O set Ai	ngle (deg.) 30	O set Ai	ngle (deg.) 30	0 set A	ngle (deg.) 30
Load Boom Rated Radius Angle Load	Load Boom Rated Radius Angle Load	Load Boom Rated Radius Angle Load	Load Boom Rated Radius Angle Load	Load Boom Rated Radius Angle Load	Load Boom Rated Radius Angle Load	Load Boom Rated Radius Angle Load	Load Boom Rated Radius Angle Load
(ft)         (deg.)         (lbs)           36.0         79.7         24,000°           38.0         79.0         24,000°           40.0         78.2         24,000°           50.0         74.3         24,000°           60.0         70.2         24,000°           65.0         68.2         21,970           70.0         66.1         19,860           75.0         63.9         17,940           85.0         59.5         15,050           90.0         57.3         13,860           95.0         54.8         12,740           100.0         52.4         11,790           105.0         47.3         10,950           115.0         44.4         9,470           120.0         41.6         8,860	(ft) (deg.) (lbs)  45.0 79.7 21,000* 55.0 77.7 21,000* 55.0 75.6 20,560* 60.0 73.5 19,680* 65.0 71.4 18,910* 70.0 69.3 18,180* 75.0 67.0 17,500* 80.0 64.8 16,790 85.0 62.6 15,410 90.0 60.2 14,170 95.0 57.7 13,020 100.0 55.2 12,050 105.0 52.6 11,170	(ft) (deg.) (lbs)  40.0 79.9 24,000* 45.0 78.1 24,000* 55.0 74.3 24,000* 60.0 72.4 24,000* 65.0 70.5 22,240 70.0 68.6 20,100 75.0 66.5 18,160 80.0 64.5 16,620 85.0 62.5 15,250 90.0 60.5 14,040 95.0 58.2 12,910 100.0 56.0 11,970 105.0 53.8 11,130 110.0 51.5 10,360 115.0 48.9 9,630 125.0 43.8 8,420 130.0 41.1 7,890	(ft) (deg.) (lbs)   (lbs)	(tt) (deg.) (lbs)  45.0 79.5 20,000* 50.0 77.7 20,000* 55.0 75.9 20,000* 66.0 74.2 20,000* 65.0 72.4 19,240* 70.0 70.6 18,010* 75.0 68.7 16,840* 80.0 66.8 15,890* 85.0 65.0 15,030* 90.0 63.1 14,190 95.0 61.0 13,050 100.0 59.0 12,100 105.0 57.0 11,260 110.0 54.9 10,490 115.0 52.6 9,740 120.0 50.4 9,100 125.0 48.1 8,530 130.0 45.6 8,000	(ft) (deg.) (lbs)  60.0 79.2 11,330* 65.0 77.4 10,860* 70.0 75.6 10,420* 75.0 73.6 10,030* 80.0 71.7 9,670* 85.0 69.7 9,340* 90.0 67.8 9,060* 105.0 63.6 8,700* 105.0 61.4 8,280* 115.0 59.3 8,060* 115.0 56.8 7,870* 120.0 54.5 7,690* 125.0 52.1 7,530*	(ft) (deg.) (lbs)  50.0 78.9 18,000°  55.0 77.2 18,000°  60.0 75.5 17,720°  65.0 73.9 16,460°  70.0 72.2 15,380°  75.0 70.4 14,390°  80.0 68.7 13,550°  85.0 67.0 12,780°  90.0 65.2 12,120°  95.0 63.3 11,480°  100.0 61.5 10,930°  105.0 59.6 10,420°  115.0 55.6 9,520°  120.0 53.6 9,140°  125.0 51.5 8,610  130.0 49.3 8,060  135.0 47.1 7,580  140.0 44.6 7,990	6         65.0         79.7         9,080*           7         70.0         78.0         8,700*           7         75.0         76.1         8,350*           8         80.0         74.4         8,040*           9         70.7         7,470*           9         90.0         70.7         7,470*           9         50.0         68.7         7,230*           1         100.0         66.8         7,010*           1         105.0         64.9         6,790*           1         115.0         60.7         6,410*           115.0         60.7         6,410*
120.0 41.6 8,860 <b>125.0 38.5 8,280</b> 130.0 35.2 7,690* <b>135.0 31.6 6,830</b> *	Prove	130.0 41.1 7,890 135.0 38.1 7,420 140.0 34.7 6,700*	Paring 4	135.0 43.1 7,510 140.0 40.3 7,030 145.0 37.4 6,540* 150.0 34.3 5,880*	Proves 4	140.0 44.6 7,090 145.0 42.2 6,670 150.0 39.6 6,300 155.0 36.8 5,730* 160.0 33.6 5,090*	Province of
Reeves 1	Reeves 1	Reeves 1	Reeves 1	Reeves 1	Reeves 1	Reeves 1	Reeves 1
130' Boo	ft Jib	40	ft Jib	50	ft <b>J</b> ib	60	) ft Jib
	ngle (deg.)		ngle (deg.)		ngle (deg.)		ingle (deg.)
10	30	10	30	10	30	10	30
Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)	Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)	Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)	Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)	Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)	Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)	Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)	Load Boom Rated Radius Angle Load (ft) (deg.) (lbs)
38.0 79.7 24,000* 40.0 79.0 24,000* 45.0 77.1 24,000* 55.0 73.4 24,000* 66.0 71.5 24,000* 65.0 69.6 21,730 75.0 65.6 17,680 80.0 63.7 16,130 85.0 61.6 14,790 90.0 59.6 13,600 95.0 57.3 12,470 100.0 55.2 11,530 105.0 52.9 10,690 110.0 50.6 9,940 115.0 48.1 9,210 120.0 45.6 8,570	50.0 78.5 21,000* 55.0 76.5 20,980* 60.0 74.6 20,120* 65.0 72.7 19,350* 70.0 70.7 18,650* 75.0 68.6 17,960* 80.0 66.6 16,600 85.0 64.5 15,180 90.0 62.4 13,950 95.0 60.1 12,780 100.0 57.9 11,810 105.0 55.6 10,950 110.0 53.2 10,160	45.0         78.8         24,000*           50.0         77.1         24,000*           55.0         75.2         24,000*           60.0         73.5         24,000*           65.0         71.7         22,000           70.0         69.9         19,860           75.0         68.0         17,920           80.0         66.2         16,350           85.0         64.3         14,990           95.0         60.3         12,650           100.0         58.3         11,700           105.0         56.3         10,860           115.0         51.9         9,360           120.0         49.7         8,730           125.0         47.4         8,150           130.0         45.0         7,620           135.0         42.5         7,140           140.0         39.6         6,670           145.0         36.8         6,040*	55.0 79.3 15,100* 60.0 77.5 14,500* 65.0 75.7 13,930* 70.0 73.8 13,420* 75.0 71.8 12,940* 80.0 69.9 12,520* 85.0 68.0 12,140* 90.0 66.1 11,770* 95.0 63.9 11,440* 100.0 61.9 11,130* 105.0 59.8 10,860* 110.0 57.6 10,420 115.0 55.2 9,650 120.0 52.9 8,990	45.0         80.0         20,000*           50.0         78.4         20,000*           55.0         76.7         20,000*           60.0         75.1         20,000*           65.0         73.4         20,000*           70.0         71.7         18,760*           75.0         69.9         17,570*           80.0         68.2         16,530           85.0         66.5         15,160           90.0         64.7         13,950           95.0         62.8         12,800           100.0         61.0         11,860           105.0         59.1         11,000           110.0         57.2         10,220           115.0         55.1         9,470           120.0         53.1         8,840           135.0         48.8         7,730           135.0         44.6         7,250           140.0         44.1         6,760           145.0         41.7         6,340	60.0 79.9 11,480* 65.0 78.2 11,020* 70.0 76.5 10,620* 75.0 74.6 10,200* 80.0 72.8 9,850* 85.0 71.0 9,540* 90.0 69.2 9,230* 95.0 67.2 8,950* 100.0 65.3 8,700* 105.0 63.4 8,480* 110.0 61.4 8,260* 115.0 59.2 8,040* 120.0 57.1 7,870* 125.0 54.9 7,710* 130.0 52.6 7,560*	50.0 79.5 18,000° 55.0 77.9 18,000° 60.0 76.3 18,000° 75.0 74.8 17,100° 75.0 71.5 14,960° 80.0 69.9 14,100° 85.0 68.3 13,330° 90.0 66.6 12,630° 95.0 64.8 11,970° 100.0 63.1 11,410° 105.0 61.4 10,890° 115.0 57.7 9,560 120.0 55.9 8,920 125.0 54.0 8,350 130.0 52.0 7,820 135.0 50.0 7,310 140.0 47.8 6,830 145.0 45.6 6,410 150.0 43.3 6,040	70.0 78.7 8,840* 75.0 76.9 8,480* 80.0 75.3 8,170* 85.0 73.6 7,890* 90.0 71.9 7,620* 95.0 70.0 7,360* 100.0 68.3 7,140*

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	140	)' Boo	m																				
		30 f	t <b>J</b> ib					40 f	t <b>J</b> ib					50 f	t <b>J</b> ib					60 t	t <b>J</b> ib		
	(	O set An	gle (d	eg.)			(	O set An	igle (d	eg.)			(	O set An	gle (d	eg.)			(	O set Ar	igle (d	eg.)	
Land	10		Land	30		Land	10		land	30	Detect	Land	10		Land	30		Land	10	Detect	Land	30	Detect
Load Radius	Boom Angle	Rated Load	Load Radius		Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load
(ft) 40.0	(deg.) 79.6	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 45.0	(deg.) 79.4	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 50.0	(deg.) 79.1	(lbs) 20,000*	(ft)	(deg.)	(lbs)	(ft) 55.0	(deg.) 78.5	(lbs) 18,000*	(ft)	(deg.)	(lbs)
45.0	77.9	<b>24,000</b> *				50.0	77.8	<b>24,000</b> *				55.0	77.4	20,000*				60.0	77.0	18,000*			
50.0	76.2	24,000*	50.0	79.2	21,000*	55.0	76.1	24,000*	55.0	79.9	15,320*	60.0	75.9	20,000*				65.0	75.6	17,700*			
<b>55.0</b> 60.0	<b>74.4</b> 72.6	24,000*	<b>55.0</b> 60.0	<b>77.4</b> 75.6	21,000*	<b>60.0</b> 65.0	<b>74.4</b> 72.8	<b>24,000</b> *	60.0	<b>78.2</b> 76.5	14,720*	<b>65.0</b> 70.0	<b>74.3</b> 72.8	20,000*	<b>65.0</b> 70.0	<b>78.8</b> 77.2	11,170*	<b>70.0</b> 75.0	<b>74.1</b> 72.5	16,570*	<b>70.0</b> 75.0	79.3	<b>8,950</b> * 8,590*
65.0	70.9	23,980 <b>21,450</b>	65.0	73.8	20,540* <b>19,770</b> *	<b>70.0</b>	71.1	21,730 <b>19,590</b>	65.0 <b>70.0</b>	76.5 <b>74.8</b>	14,170* <b>13,690</b> *	75.0	71.1	19,480* <b>17,850</b>	75.0	77.2 75.5	10,780* <b>10,380</b> *	80.0	71.0	15,520* <b>14,630</b> *	80.0	77.7 <b>76.1</b>	8,310*
70.0	69.1	19,330	70.0	72.0	19,060*	75.0	69.3	17,650	75.0	72.9	13,180*	80.0	69.4	16,260	80.0	73.8	10,030*	85.0	69.4	13,840*	85.0	74.5	8,020*
75.0	67.2	17,390	75.0	70.0	17,940	80.0	67.6	16,090	80.0	71.2	12,760*	85.0	67.8	14,880	85.0	<b>72.1</b>	9,720*	90.0	67.9	13,130*	90.0	72.9	7,760*
80.0 <b>85.0</b>	65.3 <b>63.5</b>	15,850 <b>14,480</b>	80.0 <b>85.0</b>	68.1 <b>66.2</b>	16,330 <b>14,940</b>	85.0 <b>90.0</b>	65.9 <b>64.1</b>	14,720 <b>13,510</b>	85.0 <b>90.0</b>	69.4 <b>67.6</b>	12,380* <b>12,030</b> *	90.0 <b>95.0</b>	66.2 <b>64.4</b>	13,660 <b>12,520</b>	90.0 <b>95.0</b>	70.4 <b>68.6</b>	9,430* <b>9,120</b> *	95.0 <b>100.0</b>	66.2 <b>64.6</b>	12,450* <b>11,680</b>	95.0 <b>100.0</b>	71.2 <b>69.5</b>	7,510* <b>7,270</b> *
90.0	61.6	13,290	90.0	64.3	13,690	95.0	62.2	12,360	95.0	65.6	11,680*	100.0	62.7	11,570	100.0	66.8	8,880*	105.0	63.0	10,820	105.0	67.8	7,070*
95.0	59.5	12,160	95.0	62.2	12,540	100.0	60.3	11,410	100.0	63.7	11,370*	105.0	60.9	10,710	105.0	65.0	8,660*	110.0	61.4	10,050	110.0	66.1	6,870*
100.0 <b>105.0</b>	57.5 <b>55.5</b>	11,220 <b>10,380</b>	100.0 <b>105.0</b>	60.1 <b>58.1</b>	11,550 <b>10,690</b>	105.0 <b>110.0</b>	58.5 <b>56.6</b>	10,580 <b>9,810</b>	105.0 <b>110.0</b>	61.8 <b>59.8</b>	10,970 <b>10,180</b>	110.0 <b>115.0</b>	59.2 <b>57.3</b>	9,940 <b>9,190</b>	110.0 <b>115.0</b>	63.2 <b>61.2</b>	8,440* <b>8,220</b> *	115.0 <b>120.0</b>	59.6 <b>57.9</b>	9,300 <b>8,660</b>	115.0 <b>120.0</b>	64.3 <b>62.5</b>	6,700* <b>6,520</b> *
110.0	53.4	9,630	110.0	55.9	9,890	115.0	54.5	9,060	115.0	57.6	9,410	120.0	55.4	8,550	120.0	59.3	8,040*	125.0	56.1	8,060	125.0	60.7	6,370*
115.0	51.1	8,900	115.0	53.5	9,120	120.0	52.5	8,420	120.0	55.5	8,730	125.0	53.5	7,980	125.0	57.3	7,870*	130.0	54.3	7,530	130.0	58.8	6,230*
120.0 <b>125.0</b>	48.9 <b>46.6</b>	8,260 <b>7,690</b>	120.0	51.3	8,480	125.0 <b>130.0</b>	50.4 <b>48.2</b>	7,840 <b>7,310</b>	125.0	53.4	8,130	130.0 <b>135.0</b>	51.6 <b>49.5</b>	7,450 <b>6,940</b>	130.0 <b>135.0</b>	55.3 <b>53.1</b>	7,710* <b>7,250</b>	135.0 <b>140.0</b>	52.5 <b>50.5</b>	7,030 <b>6,540</b>	135.0 <b>140.0</b>	56.9 <b>54.7</b>	6,100* <b>5,970</b> *
130.0	44.2	7,180				135.0	46.0	6,830				140.0	47.3	6,450	155.0	55.1	1,200	145.0	48.5	6,120	145.0	52.7	5,860*
135.0	41.7	6,700				140.0	43.5	6,370				145.0	45.1	6,040				150.0	46.5	5,730			
140.0 <b>145.0</b>	38.8 <b>36.0</b>	6,060* <b>5,400</b> *				145.0 <b>150.0</b>	41.1 <b>38.5</b>	5,880* <b>5,290</b> *				150.0 <b>155.0</b>	42.9 <b>40.5</b>	5,640* <b>5,090</b> *				155.0 <b>160.0</b>	44.4 <b>42.0</b>	5,350* <b>4,820</b> *			
150.0	32.9	4,760*				155.0	35.7	4,690*				160.0	37.8	4,540*				165.0	39.7	4,340*			
		,				160.0	32.5	4,070*				165.0	35.1	4,010*				170.0	37.3	3,880*			
		_	_		_			_				170.0	32.2	3,500*				175.0	34.7	3,410*			
l Ree	VOC		Dog			Doo												Doo	100	1	Do.		4
1400		1		ves	1	ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	_ '	Ree	ves	1
160		)' Boo	m	eves	1	Ree	ves			ves	1	Ree	eves			ves	1	Ree	ves			eves	'
TREC	150	)' Boo 30 f	m t Jib		1	Ree		40 f	t Jib		1	Ree		50 f	t Jib		1	Ree		601	t Jib		
TAGE	150	30 f 30 set An	m t Jib	eg.)		Ree	(	40 f O set An	t Jib	eg.)	1	Ree	(	50 t O set An	t Jib	eg.)		Ree	(		t Jib	'eg.)	•
Load	150 10 Boom	30 f 30 set An	m ft Jib gle (d	eg.) 30 Boom	Rated	Load	10 Boom	40 f O set An	ft Jib ngle (d	eg.) 30 Boom	Rated	Load	10 Boom	50 f O set An	t Jib gle (de	eg.) 30 Boom	Rated	Load	10 Boom	60 t O set Ar	ft Jib ngle (d	eg.) 30 Boom	Rated
	150	30 f 30 set An	m it Jib gle (d	eg.) 30 Boom			10	40 t O set An	ft Jib ngle (d	eg.) 30			10	50 f O set An	t Jib gle (d	eg.) 30			10	60 t O set Ar	ft Jib ngle (d	eg.) 30 Boom	
Load Radius (ft) 45.0	150 10 Boom Angle (deg.) 78.6	30 f 30 f 2 set An	m ft Jib gle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 45.0	10 Boom Angle	40 f O set An	et Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 50.0	10 Boom Angle (deg.) 79.6	50 f O set An	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 55.0	10 Boom Angle (deg.) 79.1	Rated Load (lbs) 18,000*	ft Jib ngle (d Load Padius	eg.) 30 Boom Angle	Rated Load
Load Radius (ft) 45.0 50.0	150 10 Boom Angle (deg.) 78.6 77.0	30 f 30 f 30 set An Rated Load (lbs) 24,000* 24,000*	t Jib gle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.) 79.9	Rated Load (lbs) 21,000*	Load Radius (ft) 45.0 50.0	10 Boom Angle (deg.) 80.0 78.5	## A0 f  O set An  Rated Load (lbs)  24,000*  24,000*	et Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 50.0 55.0	79.6 78.1	750 f 70 set And Rated Load (lbs) 20,000* 20,000*	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 55.0 60.0	79.1 77.7	Rated Load (lbs) 18,000* 18,000*	ft Jib ngle (d Load Padius	eg.) 30 Boom Angle	Rated Load
Load Radius (ft) 45.0 50.0 55.0	150 10 Boom Angle (deg.) 78.6 77.0 75.3	30 f 30 f 2) set An Rated Load (lbs) 24,000* 24,000* 24,000*	t Jib gle (d Load Radius (ft) 50.0	eg.) 30 Boom Angle (deg.) 79.9 78.1	Rated Load (lbs)  21,000* 21,000*	Load Radius (ft) 45.0 50.0	10 Boom Angle (deg.) 80.0 78.5 76.8	## Application	ft Jib ngle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft) 50.0 55.0 60.0	79.6 76.6	50 f O set An Rated Load (lbs) 20,000* 20,000* 20,000*	Et Jib gle (di Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft) 55.0 <b>60.0</b> 65.0	79.1 77.7 76.3	Rated Load (lbs) 18,000* 18,000* 18,000*	ft Jib ngle (d Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	150 10 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0	30 f 30 f 30 set And 24,000* 24,000* 24,000* 23,800 21,270	Et Jib  gle (d  Load Radius (ft)  50.0 60.0 65.0	eg.) 30 Boom Angle (deg.) 79.9 78.1 76.4 74.8	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	80.0 78.5 76.8 73.7	## A0 f    Pated   Load (lbs)     24,000*     24,000*     24,000*     24,000*     21,580	Load Radius (ft) 60.0 65.0	eg.) 30 Boom Angle (deg.) 78.9 77.3	Rated Load (lbs)  14,920* 14,390*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0	79.6 78.1 76.6 75.1 73.7	50 f Set And Pated Load (lbs)  20,000* 20,000* 20,000* 19,640	Load Radius (ft) 65.0 70.0	eg.) 30 Boom Angle (deg.) 79.4 77.9	Rated Load (lbs)  11,330* 10,930*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0	79.1 76.3 74.9 73.4	60 ft Set Ard Load (lbs)  18,000* 18,000* 17,120* 16,040*	Load Radius (ft) 70.0 75.0	eg.) 30 Boom Angle (deg.) 79.9 78.3	Rated Load (lbs)  9,060* 8,700*
Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0	150 10 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3	30 f 30 f 30 set And Rated Load (lbs) 24,000* 24,000* 24,000* 23,800 21,270 19,150	Load Radius (ft)  50.0 55.0 60.0 65.0 70.0	79.9 78.1 76.4 74.8	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0	80.0 78.5 76.8 75.3 73.7	## A0 f    Pated   Load (lbs)     24,000*     24,000*     24,000*     24,000*     21,580     19,420	Load Radius (ft)  60.0 65.0 70.0	eg.) 30 Boom Angle (deg.) 78.9 77.3 75.7	Rated Load (lbs)  14,920* 14,390* 13,910*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0	79.6 78.1 76.6 75.1 73.7	750 f Set And Pated Load (lbs) 20,000* 20,000* 20,000* 19,640 17,680	Load Radius (ft)  65.0 70.0 75.0	eg.) 30 Boom Angle (deg.) 79.4 77.9 76.3	Rated Load (/lbs)  11,330* 10,930* 10,530*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0	79.1 77.7 76.3 74.9 73.4 71.9	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 15,160*	Load Radius (ft)  70.0 75.0 80.0	79.9 78.3 76.8	## Rated Load (lbs)  9,060* 8,700* 8,420*
Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	150 10 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5	30 f 30 f 30 set And 24,000* 24,000* 24,000* 23,800 21,270	Et Jib  gle (d  Load Radius (ft)  50.0 60.0 65.0	79.9 78.1 76.4 74.8 73.1 71.2	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	80.0 78.5 76.8 73.7	## A0 f    Pated   Load (lbs)     24,000*     24,000*     24,000*     24,000*     21,580	Load Radius (ft) 60.0 65.0	eg.) 30 Boom Angle (deg.) 78.9 77.3	Rated Load (lbs)  14,920* 14,390*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0	79.6 78.1 76.6 75.1 73.7	50 f Set And Pated Load (lbs)  20,000* 20,000* 20,000* 19,640	Load Radius (ft) 65.0 70.0	eg.) 30 Boom Angle (deg.) 79.4 77.9	Rated Load (lbs)  11,330* 10,930*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0	79.1 76.3 74.9 73.4	60 to Set Ard Pated Load (lbs)  18,000* 18,000* 17,120* 16,040*	Load Radius (ft) 70.0 75.0	eg.) 30 Boom Angle (deg.) 79.9 78.3 76.8 75.3	Rated Load (lbs)  9,060* 8,700*
Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	150 10 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1	7 Set And Cload (bs)  Rated Load (bs)  24,000* 24,000* 23,800 21,270 19,150 17,210 15,670 14,300	Et Jib gle (de Radius (ft) 50.0 65.0 70.0 75.0 80.0 85.0	eg.) 30 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7	Pated Load (lbs)  21,000* 20,150* 19,440* 17,810 16,200 14,790	Load Radius (ft) 45.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2	Rated Load (lbs) 24,000* 24,000* 24,000* 21,580 11,7480 15,890 14,520	ft Jib ogle (d Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0	eg.) 30 Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 13,000* 12,630*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.6 78.1 76.6 75.1 70.5 69.0 67.5	Rated Load (lbs) 20,000* 20,000* 20,000* 11,680 16,090 14,700 13,490	65.0 70.0 75.0 80.0 85.0 90.0	eg.) 30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,870* 9,590*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.1 77.7 76.3 74.9 70.5 69.0 67.4	Rated Load (lbs) 18,000* 18,000* 18,000* 11,120* 16,040* 15,160* 14,350* 13,620 12,450	Ft Jib ogle (d Load Radius (ft) 70.0 75.0 80.0 85.0 90.0 95.0	79.9 78.3 76.8 75.3 73.8 72.2	9,060* 8,700* 8,420* 8,130* 7,890* 7,620*
Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	150 100 Boom Angle (deg.) 78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 23,800 11,210 15,670 14,300 13,110	Et Jib ggle (d Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	eg.) 300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9	Pated Load (lbs)  21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530	Load Radius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6	Rated Load (lbs) 24,000* 24,000* 24,000* 21,580 19,420 17,480 15,890 14,520 13,310	60.0 65.0 70.0 85.0 90.0	eg.) 30 Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6 68.9	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 13,000* 12,630* 12,270*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.6 78.1 76.6 75.1 70.5 69.0 67.5 65.8	Fated Load (lbs) 20,000* 20,000* 20,000* 19,640 11,690 14,700 13,490 12,340	65.0 70.0 75.0 80.0 85.0 90.0 95.0	eg.) 30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5 69.8	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0	79.1 77.7 76.3 74.9 73.4 71.9 70.5 69.0 67.4 65.9	Rated Load (lbs) 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620 12,450 11,500	70.0 75.0 80.0 95.0 100.0	79.9 78.3 76.8 75.3 73.8 72.2 70.6	9,060* 8,700* 8,420* 8,130* 7,620* 7,400*
Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	150 100 100 100 100 100 100 100	7 Set And Cload (bs)  Rated Load (bs)  24,000* 24,000* 23,800 21,270 19,150 17,210 15,670 14,300	Et Jib gle (de Radius (ft) 50.0 65.0 70.0 75.0 80.0 85.0	eg.) 300 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9	Pated Load (lbs)  21,000* 20,150* 19,440* 17,810 16,200 14,790	Load Radius (ft) 45.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0	80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2	Rated Load (lbs) 24,000* 24,000* 24,000* 21,580 11,7480 15,890 14,520	ft Jib ogle (d Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0	eg.) 30 Boom Angle (deg.) 78.9 77.3 75.7 73.9 72.3 70.6	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 13,000* 12,630*	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.6 78.1 76.6 75.1 70.5 69.0 67.5	Rated Load (lbs) 20,000* 20,000* 20,000* 11,680 16,090 14,700 13,490	65.0 70.0 75.0 80.0 85.0 90.0	eg.) 30 Boom Angle (deg.) 79.4 77.9 76.3 74.7 73.1 71.5	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,870* 9,590*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.1 77.7 76.3 74.9 70.5 69.0 67.4	Rated Load (lbs) 18,000* 18,000* 18,000* 11,120* 16,040* 15,160* 14,350* 13,620 12,450	Ft Jib ogle (d Load Radius (ft) 70.0 75.0 80.0 85.0 90.0 95.0	79.9 78.3 76.8 73.8 72.2 70.6 69.1	9,060* 8,700* 8,420* 8,130* 7,890* 7,620*
Load Radius (ft) 45.0 50.0 65.0 60.0 65.0 70.0 80.0 85.0 90.0 90.0 100.0 105.0	150 (0 10 10 10 10 10 10 10 10 10 1	7 Set And Load (lbs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 11,1990 11,040 10,200	Load Radius (ft)  50.0 65.0 65.0 75.0 80.0 95.0 90.0 90.0 100.0 105.0	79.9 78.1 76.4 74.8 73.1 76.5 69.5 69.5 63.9 62.1 60.2	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 11,390 10,510	Load Radius (ft) 45.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 90.0 100.0	70.8 80.0 78.5 76.8 75.3 73.7 72.1 70.5 66.8 66.2 65.6 63.8 62.1 60.3	## Act of Control of C	Control of the state of the sta	78.9 77.3 75.7 76.6 68.9 67.1 65.3 63.5	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820	Load Radius (ft) 50.0 65.0 65.0 75.0 80.0 85.0 90.0 105.0 110.0	79.6 78.1 76.6 75.1 77.2 72.1 70.5 69.0 67.5 69.0 64.2 62.6 60.9	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 10,530 9,760	65.0 70.0 75.0 80.0 85.0 90.0 105.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8	Pated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300* 9,060* 8,810* 8,590*	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 91.00.0 1100.0 115.0	(deg.) 79.1 77.7 76.3 74.9 73.4 71.9 65.9 64.4 62.9 61.2	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 13,620 12,450 11,500 10,640 9,850 9,100	70.0 Ro.0 Pos.0 Po	79.9 78.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.5 65.7	Pated Load (lbs)  9,060* 8,700* 8,420* 8,130* 7,690* 7,620* 7,400* 7,010* 6,830*
Load Radius (ft) 45.0 50.0 65.0 60.0 65.0 75.0 80.0 85.0 90.0 100.0 105.0 110.0	150 100 100 100 100 100 100 100	7 Set And Cload (Ibs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 11,1990 11,040 10,200 9,430	Load Radius (ft)  50.0 65.0 65.0 77.0 99.0 99.0 100.0 110.0 110.0	eg.) 30  Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 62.1 60.2 58.2	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720	Load Radius (t) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 105.0 110.0	70.5 68.8 62.1 60.3 58.6	## Act of Control of C	60.0 65.0 70.0 99.0 90.0 100.0 110.0 110.0	78.9 77.3 75.7 73.9 72.3 70.6 68.9 65.3 63.5 61.7	Rated Load (lbs)  14,920* 14,390* 13,910* 13,020* 12,630* 12,270* 11,610* 10,820 10,030	Load Radius (ft) 50.0 65.0 65.0 75.0 80.0 85.0 99.0 105.0 110.0 115.0 115.0	79.6 78.1 76.6 75.1 73.7 72.1 70.5 69.0 67.5 69.0 67.5 69.0 60.9 59.1	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 11,3490 10,530 9,760 9,010	Control of the contro	79.4 77.9 76.3 74.7 73.1 71.5 69.8 66.5 64.8 62.9	Pated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,306* 8,810* 8,590* 8,390*	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 99.0 110.0 115.0 120.0 120.0	70.5 69.0 66.9 66.9 66.9 66.9 66.9 66.9 61.2 69.0	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 13,620 12,450 11,500 9,850 9,100 8,460	70.0 R5.0 P9.0 P9.0 110.0 115.0 120.0 120.0	79.9 78.3 76.8 75.3 76.6 76.1 67.5 65.7 64.1	9,060* 8,700* 8,420* 8,130* 7,890* 7,400* 7,400* 7,010* 6,830* 6,650*
Load Radius (ft) 45.0 50.0 65.0 65.0 75.0 88.0 85.0 99.0 100.0 110.0 115.0 120.0	150 100 100 100 100 100 100 100	7 Set And Load (lbs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 11,1990 11,040 10,200	Load Radius (ft)  50.0 65.0 65.0 75.0 80.0 95.0 90.0 90.0 100.0 105.0	eg.) 30 Boom Angle (deg.) 79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 63.2 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 11,390 10,510	Load Radius (ft) 45.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 90.0 100.0	70.8 80.0 78.5 76.8 75.3 73.7 72.1 70.5 66.8 66.2 65.6 63.8 62.1 60.3	## Act of Control of C	Control of the contro	78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 66.3 66.3 59.7 59.7	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570	Load Radius (ft) 50.0 65.0 65.0 75.0 80.0 85.0 90.0 105.0 110.0	79.6 78.1 76.6 75.1 77.2 72.1 70.5 69.0 67.5 69.0 64.2 62.6 60.9	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 10,530 9,760	65.0 70.0 75.0 80.0 85.0 90.0 105.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 64.8	Pated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,870* 9,590* 9,300* 9,060* 8,810* 8,590*	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 91.00.0 1100.0 115.0	(deg.) 79.1 77.7 76.3 74.9 73.4 71.9 65.9 64.4 62.9 61.2	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 13,620 12,450 11,500 10,640 9,850 9,100	70.0 Ro.0 Pos.0 Po	79.9 78.3 76.8 75.3 76.8 75.3 76.8 75.3 76.8 75.3 76.5 65.7	Pated Load (lbs)  9,060* 8,700* 8,420* 8,130* 7,690* 7,620* 7,400* 7,010* 6,830*
Load Radius (ft) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0	150 100 100 100 100 100 100 100	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,940 11,040 10,200 9,430 8,700 8,090 7,510	Toda Radius (ft)  50.0 65.0 65.0 75.0 80.0 85.0 99.0 100.0 115.0 115.0	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970	Load Radius (ft) 45.0 50.0 65.0 75.0 80.0 85.0 995.0 1100.0 115.0 1220.0 125.0	78.5 76.8 77.5 68.8 67.2 65.6 63.8 62.1 60.3 65.6 65.7 54.8 52.9	## Au f ## Set An  ##	60.0 65.0 70.0 85.0 99.0 110.0 115.0 125.0 125.0	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	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570 7,950	Load Radius (ft) 50.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0 130.0	79.6 78.1 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	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 12,340 11,390 10,530 9,760 9,010 8,370 7,780 7,250	65.0 70.0 85.0 90.0 90.0 105.0 115.0 120.0 125.0 130.0	eg.) 30 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	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 8,020* 7,620	Load Radius (ft) 55.0 60.0 75.0 80.0 85.0 90.0 100.0 110.0 120.0 130.0 135.0	79.1 77.7 76.3 74.9 70.5 69.0 67.4 65.9 64.4 62.9 58.0 56.3 54.6	Rated Load (lbs) 18,000* 18,000* 17,120* 16,040* 15,160* 14,350* 12,450 11,500 10,640 9,850 9,100 8,460 7,870 7,340 6,830	70.0 75.0 80.0 85.0 90.0 105.0 125.0 135.0 135.0 135.0	79.9 78.3 76.8 75.3 76.8 75.3 76.6 69.1 67.5 64.1 62.4 60.7 58.9	Pated Load (/bs)  9,060* 8,700* 8,420* 8,130* 7,890* 7,620* 7,400* 7,010* 6,830* 6,650* 6,500* 6,370* 6,210*
Load Radius (ft) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0 130.0	78.6 66.8 65.1 63.3 61.4 59.6 57.7 55.8 51.7 49.6 47.5	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,940 10,200 9,430 8,700 8,090 7,510 6,980	Total Part of the Control of the Con	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Load Radius (ft) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 130.0	78.5 76.8 77.5 68.8 67.2 65.6 63.8 62.1 60.3 58.6 52.9 51.0	## Au f ## Set An  ## Rated Load (Ibs) 24,000* 24,000* 24,000* 24,000* 24,000* 17,480 15,890 14,520 13,310 12,190 11,240 10,380 9,610 8,860 8,240 7,670 7,140	60.0 65.0 70.0 85.0 99.0 110.0 115.0 120.0	78.9 77.3 75.7 73.9 72.3 70.6 68.9 67.1 65.3 66.3 66.3 59.7 59.7	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570	Load Radius (ft) 50.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0 130.0 135.0	79.6 78.1 73.7 72.1 70.5 69.0 67.5 65.8 64.2 62.6 60.9 55.7 53.9 52.0	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 12,340 11,390 10,530 9,760 9,010 8,370 7,780 7,250 6,740	65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 135.0 135.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 62.9 61.2 59.3 57.5 55.6	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 7,620 7,090	Load Radius (ft) 55.0 60.0 65.0 75.0 80.0 85.0 90.0 100.0 110.0 125.0 130.0 135.0 140.0	79.1 77.7 76.3 74.9 70.5 69.0 67.4 65.9 64.4 62.9 58.0 56.3 54.6 52.8	Rated Load (lbs) 18,000* 18,000* 17,120* 16,040* 15,160* 14,350* 13,620 12,450 11,500 10,640 9,850 9,100 8,460 7,870 7,340 6,830 6,340	70.0 75.0 80.0 85.0 90.0 115.0 125.0 135.0 140.0 140.0	79.9 78.3 76.8 75.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 64.1 60.7 58.9 57.0	Pated Load (/lbs)  9,060* 8,700* 8,420* 8,130* 7,890* 7,620* 7,400* 7,0010* 6,830* 6,650* 6,500* 6,370* 6,210* 6,080*
Load Radius (ft) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0	78.6 66.8 65.1 63.3 61.4 59.6 57.7 55.8 67.7 49.6 47.5 45.3	7 Set An Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,940 11,040 10,200 9,430 8,700 8,090 7,510	Total Part of the Control of the Con	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Load Radius (ft) 45.0 50.0 65.0 75.0 80.0 85.0 995.0 1100.0 115.0 1220.0 125.0	78.5 76.8 77.5 68.8 67.2 65.6 63.8 62.1 60.3 65.6 65.7 54.8 52.9	## Au f ## Set An  ##	60.0 65.0 70.0 85.0 99.0 110.0 115.0 125.0 125.0	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	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570 7,950	Load Radius (ft) 50.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 125.0 130.0	79.6 78.1 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	Rated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 12,340 11,390 10,530 9,760 9,010 8,370 7,780 7,250	65.0 70.0 85.0 90.0 90.0 105.0 115.0 120.0 125.0 130.0	eg.) 30 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	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 8,020* 7,620	Load Radius (ft) 55.0 60.0 75.0 80.0 85.0 90.0 100.0 110.0 120.0 130.0 135.0	79.1 77.7 76.3 74.9 70.5 69.0 67.4 65.9 64.4 62.9 58.0 56.3 54.6	Rated Load (lbs) 18,000* 18,000* 17,120* 16,040* 15,160* 14,350* 12,450 11,500 10,640 9,850 9,100 8,460 7,870 7,340 6,830	70.0 75.0 80.0 85.0 90.0 105.0 125.0 135.0 135.0 135.0	79.9 78.3 76.8 75.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0 55.1	Pated Load (/bs)  9,060* 8,700* 8,420* 8,130* 7,890* 7,620* 7,400* 7,010* 6,830* 6,650* 6,500* 6,370* 6,210*
Load Radius (ft) 45.0 65.0 65.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 1330.0 1440.0 145.0	150 100 100 100 100 100 100 100	7 Set And Load (lbs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,090 9,430 8,700 8,090 7,510 6,980 6,500 6,010* 5,420*	Total Paris (ft)  Load Radius (ft)  50.0  55.0  60.0  65.0  75.0  80.0  85.0  90.0  1100.0  115.0  120.0	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 120.0 130.0 135.0 140.0 145.0	70.0 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 62.1 60.3 58.6 62.1 60.3 58.6 56.7 54.8 52.9 51.0 46.7 44.6	## Act of Control of C	60.0 65.0 70.0 85.0 99.0 110.0 115.0 125.0 125.0	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	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570 7,950	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 130.0 145.0 145.0 150.0	70.0 70.0	7,780 9,010 8,370 7,780 9,010 8,370 7,780 6,260 5,460	65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 135.0 135.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 62.9 61.2 59.3 57.5 55.6	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 7,620 7,090	Load Radius (t) 55.0 60.0 65.0 70.0 75.0 88.0 90.0 105.0 115.0 125.0 135.0 140.0 155.0 155.0	70.5 69.0 66.4 62.9 61.2 59.6 63.3 64.0 62.9 61.2 64.4 62.9 61.2 64.0 64.0 65.8 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	Rated Load (lbs) 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 13,620 12,450 11,500 11,500 10,640 9,850 9,100 8,460 7,870 7,340 6,830 6,340 5,930 5,530 5,150*	70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 135.0 140.0 145.0 145.0	79.9 78.3 76.8 75.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,200* 6,650* 6,500* 6,500* 6,210* 6,080* 5,970*
Load Radius (ft) 45.0 50.0 60.0 65.0 70.0 75.0 80.0 105.0 115.0 125.0 130.0 140.0 145.0 145.0 150.0	150 100 100 100 100 100 100 100	7.500 30 ft 24,000* 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 10,200 9,430 8,700 8,090 7,510 6,980 6,500 6,010* 5,420* 4,820*	Total Paris (ft)  Load Radius (ft)  50.0  55.0  60.0  65.0  75.0  80.0  85.0  90.0  1100.0  115.0  120.0	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Load Radius (t) 45.0 50.0 65.0 60.0 65.0 70.0 105.0 110.0 125.0 130.0 140.0 145.0 150.0 145.0 150.0	700 Boom Angle (deg.) 78.5 76.8 75.3 73.7 72.1 70.5 68.8 67.2 65.6 65.7 54.8 52.9 46.7 44.6 42.3	## Act of Control of C	60.0 65.0 70.0 85.0 99.0 110.0 115.0 125.0 125.0	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	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570 7,950	Load Radius (ft) 50.0 65.0 65.0 65.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0 155.0	76.6 75.1 73.7 72.1 70.5 69.0 67.5 69.0 67.5 69.0 67.5 65.8 60.9 59.1 57.4 55.7 53.9 52.0 48.1 46.0 43.9	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 10,530 9,760 9,010 8,370 7,780 7,780 7,780 7,750 6,740 6,260 5,840 5,460 4,980*	65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 135.0 135.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 62.9 61.2 59.3 57.5 55.6	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 7,620 7,090	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 135.0 140.0 155.0 155.0 160.0	70.5 69.0 65.9 65.9 65.9 61.2 69.0 61.2 65.9 61.2 65.9 65.3 64.4 62.9 61.2 65.3 64.4 62.9 61.2 64.4 62.9 61.2 64.4 62.9 61.2 64.4 64.7 65.3 65.3 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,120* 16,040* 13,620 12,450 11,500 10,640 9,850 9,100 8,460 7,870 7,340 6,830 6,340 5,930 5,530 5,150* 4,670*	70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 135.0 140.0 145.0 145.0	79.9 78.3 76.8 75.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,0130* 6,650* 6,500* 6,370* 6,210* 6,080* 5,970*
Load Radius (ft) 45.0 65.0 65.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 1330.0 1440.0 145.0	150 100 100 100 100 100 100 100	7 Set And Load (lbs) 24,000* 24,000* 24,000* 21,270 19,150 17,210 15,670 14,300 13,110 11,090 9,430 8,700 8,090 7,510 6,980 6,500 6,010* 5,420*	Total Paris (ft)  Load Radius (ft)  50.0  55.0  60.0  65.0  75.0  80.0  85.0  90.0  1100.0  115.0  120.0	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 120.0 130.0 135.0 140.0 145.0	70.0 80.0 78.5 76.8 75.3 73.7 72.1 70.5 68.8 62.1 60.3 58.6 62.1 60.3 58.6 56.7 54.8 52.9 51.0 46.7 44.6	## Act of Control of C	60.0 65.0 70.0 85.0 99.0 110.0 115.0 125.0 125.0	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	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570 7,950	Load Radius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 130.0 145.0 145.0 150.0	79.6 79.6 75.1 76.6 75.1 70.5 69.0 67.5 66.2 62.6 60.9 59.1 57.4 55.7 53.9 52.0 48.1 46.0 43.9 41.6	7,780 9,010 8,370 7,780 9,010 8,370 7,780 6,260 5,460	65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 135.0 135.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 62.9 61.2 59.3 57.5 55.6	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 7,620 7,090	Load Radius (t) 55.0 60.0 65.0 70.0 75.0 88.0 90.0 105.0 115.0 125.0 135.0 140.0 155.0 155.0	70.5 69.0 66.4 62.9 61.2 59.6 63.3 64.0 62.9 61.2 64.4 62.9 61.2 64.0 64.0 65.8 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0	Rated Load (lbs) 18,000* 18,000* 18,000* 16,040* 15,160* 14,350* 11,500 11,500 11,500 11,640 9,850 9,100 8,460 7,870 7,340 6,830 6,340 5,930 5,530 5,150*	70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 135.0 140.0 145.0 145.0	79.9 78.3 76.8 75.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,0130* 6,650* 6,500* 6,370* 6,210* 6,080* 5,970*
Load Radius (ft) 45.0 50.0 60.0 65.0 70.0 75.0 80.0 115.0 125.0 125.0 135.0 140.0 145.0 155.0 155.0	150 100 100 100 100 100 100 100	7.510 6,980 6,500 6,010 7.52 8,000 7.510 6,980 6,500 6,010 7,510 6,980 6,500 6,010 4,250 4,250 8,200 4,250 4,250	Total Paris (ft)  Load Radius (ft)  50.0  55.0  60.0  65.0  75.0  80.0  85.0  90.0  1100.0  115.0  120.0	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Load Radius (t) 45.0 50.0 65.0 70.0 75.0 88.0 99.0 105.0 125.0 125.0 135.0 140.0 145.0 155.0 155.0	70.5 68.8 67.2 65.6 65.6 65.7 54.8 52.9 51.0 46.7 44.6 42.3 39.9	## Act of Control of C	60.0 65.0 70.0 85.0 99.0 110.0 115.0 125.0 125.0	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	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570 7,950	Load Radius (ft) 50.0 65.0 70.0 75.0 80.0 85.0 90.0 910.0 115.0 125.0 135.0 140.0 145.0 155.0 160.0 165.0 170.0	79.6 78.1 78.1 78.7 72.1 70.5 69.0 67.5 65.8 64.2 60.9 59.1 57.4 55.7 53.9 52.0 50.0 48.1 46.0 43.9 41.6 39.3 36.8	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 12,340 10,530 9,760 9,010 8,370 7,780 7,250 6,740 6,260 5,840 5,460 4,980* 4,450* 3,990* 3,520*	65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 135.0 135.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 68.2 66.5 62.9 61.2 59.3 57.5 55.6	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 7,620 7,090	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 100.0 115.0 125.0 130.0 145.0 155.0 160.0 165.0	70.5 69.0 67.4 65.9 61.2 59.6 63.3 64.4 62.9 61.2 59.6 54.6 62.9 61.2 54.6 52.8 54.6 49.2 47.3 45.2 43.1	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 15,160* 11,504 19,850 9,100 8,460 7,870 7,340 6,830 6,340 5,930 5,530 5,150* 4,670* 4,230*	70.0 75.0 80.0 85.0 90.0 100.0 115.0 125.0 135.0 140.0 145.0 145.0	79.9 78.3 76.8 75.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0 55.1	9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,0130* 6,650* 6,500* 6,370* 6,210* 6,080* 5,970*
Load Radius (ft) 45.0 60.0 65.0 70.0 75.0 80.0 85.0 995.0 100.0 125.0 135.0 140.0 155.0 160.0	150 100 100 100 100 100 100 100	7.510 6,980 6,500 6,010 7.52 8,000 7.510 6,980 6,500 6,010 7,510 6,980 6,500 6,010 4,250 4,250 4,250	Toda Radius (ft)  50.0 65.0 65.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 60.2 58.2 56.1	Pated Load (lbs)  21,000* 21,000* 20,890* 20,150* 19,440* 17,810 16,200 14,790 13,530 12,360 11,390 10,510 9,720 8,970 8,310	Load Radius (t) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 995.0 100.0 125.0 135.0 145.0 155.0 165.0 165.0 165.0	76.8 875.3 73.7 72.1 70.5 68.8 67.2 653.8 62.1 60.3 58.6 56.7 54.8 52.9 51.0 49.0 49.0 37.3	## Act of Control of C	60.0 65.0 70.0 85.0 995.0 100.0 115.0 125.0 130.0	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	Rated Load (lbs)  14,920* 14,390* 13,910* 13,420* 12,630* 12,270* 11,610* 10,820 10,030 9,230 8,570 7,950	Load Radius (ft) 50.0 65.0 65.0 77.0 80.0 85.0 90.0 90.0 115.0 125.0 135.0 140.0 155.0 160.0 165.0 175.0	79.6 78.1 78.1 78.7 72.1 70.5 69.0 67.5 65.8 64.2 60.9 59.1 57.4 55.7 53.9 52.0 50.0 48.1 46.0 43.9 41.6 39.3 36.8	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 20,000* 19,640 17,680 16,090 14,700 13,490 10,530 9,760 9,010 8,370 7,780 7,780 7,750 6,740 6,260 5,840 5,460 4,980* 4,450* 3,990*	65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 135.0 135.0 135.0	79.4 77.9 76.3 74.7 73.1 71.5 69.8 66.5 64.8 62.9 61.2 59.3 57.5 55.6 53.4	Rated Load (lbs)  11,330* 10,930* 10,530* 10,200* 9,590* 9,300* 9,060* 8,810* 8,590* 8,390* 8,200* 7,620 7,090	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 95.0 110.0 125.0 135.0 140.0 150.0 165.0 175.0 175.0	79.1 77.7 76.3 74.9 70.5 69.0 67.4 62.9 61.2 59.6 58.0 54.6 52.8 51.0 49.2 47.3 45.2 43.1 41.0	Rated Load (lbs) 18,000* 18,000* 18,000* 17,120* 16,040* 15,160* 11,504 12,450 11,504 9,850 9,100 8,460 7,870 7,340 6,830 6,340 5,530 5,530 5,530 5,530 4,670* 4,230* 3,790*	70.0 Page (d) Padius (ft) Post of the page (d) Padius (ft) Post of the page (d) Page	79.9 78.3 76.8 75.3 76.8 75.3 73.8 72.2 70.6 69.1 67.5 65.7 64.1 60.7 58.9 57.0 55.1	Pated Load (lbs)  9,060* 8,700* 8,420* 8,130* 7,620* 7,400* 7,200* 7,200* 6,830* 6,650* 6,500* 6,370* 6,210* 6,080* 5,970*

d Ji	b Lif	t Capa	acity												Fu	ıll Cou	nterweig	ht: 69,	000 lb	s Car	body V	Veight:	: 31,800
	160	)' Boo	m																				
		30 f	t <b>J</b> ib					40 f	t <b>J</b> ib					50 t	t <b>J</b> ib					60 f	t <b>J</b> ib		
	(	Set An	igle (d	eg.)			(	) set An	gle (d	eg.)			(	O set Ar	gle (d	eg.)			(	o set An	gle (d	eg.)	
	10			30			10			30	1		10	1		30			10			30	
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
45.0 <b>50.0</b>	79.2 <b>77.7</b>	24,000* <b>24,000</b> *	( )	1 07		50.0 <b>55.0</b>	79.0 <b>77.5</b>	24,000* <b>24,000</b> *		( 0)	,	55.0 <b>60.0</b>	78.7 <b>77.3</b>	20,000* <b>20,000</b> *		( 0)	,	55.0 <b>60.0</b>	79.6 <b>78.3</b>	18,000* <b>18,000</b> *		( 0)	
55.0 <b>60.0</b>	76.1 <b>74.5</b>	24,000* <b>23,720</b>	55.0 <b>60.0</b>	78.8 <b>77.2</b>	21,000* <b>21,000</b> *	60.0 <b>65.0</b>	76.0 <b>74.6</b>	24,000* <b>21,470</b>	60.0 <b>65.0</b>	79.5 <b>78.0</b>	15,120* <b>14,590</b> *	65.0 <b>70.0</b>	75.9 <b>74.5</b>	20,000* <b>19,530</b>	65.0 <b>70.0</b>	80.0 <b>78.5</b>	11,440* <b>11,060</b> *	65.0 <b>70.0</b>	76.9 <b>75.6</b>	18,000* <b>17,650</b> *	70.0	80.4	9,140*
65.0 <b>70.0</b> 75.0	73.0 <b>71.4</b> 69.7	21,180 <b>19,040</b> 17,100	65.0 <b>70.0</b> 75.0	75.6 <b>74.0</b> 72.3	20,500* <b>19,730</b> 17,720	70.0 <b>75.0</b> 80.0	73.1 <b>71.5</b> 70.0	19,310 <b>17,370</b> 15,780	70.0 <b>75.0</b> 80.0	76.4 <b>74.8</b> 73.2	14,100* 13,640* 13,220*	75.0 <b>80.0</b> 85.0	72.9 <b>71.5</b> 70.1	17,570 <b>15,980</b> 14,590	75.0 <b>80.0</b> 85.0	77.0 <b>75.5</b> 74.0	10,670* 10,330* 10,030*	75.0 <b>80.0</b> 85.0	74.1 <b>72.8</b> 71.4	16,570* <b>15,670</b> * 14,700	75.0 <b>80.0</b> 85.0	78.9 <b>77.5</b> 76.1	8,810* <b>8,530</b> * 8,240*
<b>80.0</b> 85.0	<b>68.1</b> 66.5	<b>15,540</b> 14,190	<b>80.0</b> 85.0	<b>70.7</b> 69.0	<b>16,090</b> 14,680	<b>85.0</b> 90.0	<b>68.4</b> 66.9	<b>14,410</b> 13,200	<b>85.0</b> 90.0	<b>71.7</b> 70.1	<b>12,850</b> * 12,500*	<b>90.0</b> 95.0	<b>68.6</b> 67.0	<b>13,350</b> 12,210	<b>90.0</b> 95.0	<b>72.5</b> 70.9	<b>9,740</b> * 9,450*	<b>90.0</b> 95.0	<b>70.0</b> 68.5	<b>13,490</b> 12,340	<b>90.0</b> 95.0	<b>74.6</b> 73.1	8,000* 7,760*
<b>90.0</b> 95.0	<b>64.8</b> 63.0	<b>12,980</b> 11,860	<b>90.0</b> 95.0	<b>67.3</b> 65.5	<b>13,440</b> 12,270	<b>95.0</b> 100.0	<b>65.2</b> 63.6	<b>12,050</b> 11,110	<b>95.0</b> 100.0	<b>68.4</b> 66.7	<b>12,140*</b> 11,640	<b>100.0</b> 105.0	<b>65.5</b> 64.0	<b>11,260</b> 10,400	<b>100.0</b> 105.0	<b>69.3</b> 67.8	<b>9,210</b> * 8,970*	<b>100.0</b> 105.0	<b>67.1</b> 65.7	<b>11,370</b> 10,490	<b>100.0</b> 105.0	<b>71.6</b> 70.2	<b>7,530*</b> 7,310*
<b>100.0</b> 105.0	<b>61.3</b> 59.6 <b>57.9</b>	<b>10,910</b> 10,070	100.0 105.0 110.0	<b>63.8</b> 62.0 <b>60.2</b>	<b>11,280</b> 10,400	<b>105.0</b> 110.0	<b>62.0</b> 60.4 <b>58.6</b>	<b>10,250</b> 9,470	105.0 110.0 115.0	<b>65.1</b> 63.4 <b>61.5</b>	<b>10,730</b> 9,920	<b>110.0</b> 115.0	<b>62.5</b> 60.8 <b>59.2</b>	<b>9,610</b> 8,860	110.0 115.0	<b>66.2</b> 64.5 <b>62.8</b>	<b>8,770</b> * 8,550*	110.0 115.0 120.0	<b>64.2</b> 62.7 <b>61.2</b>	<b>9,720</b> 8,970	110.0 115.0	<b>68.7</b> 67.0 <b>65.5</b>	<b>7,140</b> * 6,940*
<b>110.0</b> 115.0 <b>120.0</b>	55.9 <b>54.1</b>	<b>9,300</b> 8,550 <b>7,930</b>	110.0 115.0 <b>120.0</b>	58.2 <b>56.3</b>	<b>9,610</b> 8,840 <b>8,200</b>	<b>115.0</b> 120.0 <b>125.0</b>	56.9 <b>55.1</b>	<b>8,730</b> 8,090 <b>7,510</b>	120.0 125.0	59.8 <b>58.0</b>	<b>9,120</b> 8,460 <b>7,840</b>	120.0 125.0 130.0	57.6 <b>55.9</b>	<b>8,220</b> 7,620 <b>7,090</b>	120.0 125.0 130.0	61.1 <b>59.4</b>	<b>8,350</b> * 8,090 <b>7,510</b>	120.0 125.0 <b>130.0</b>	59.7 <b>58.1</b>	<b>8,310</b> 7,730 <b>7,180</b>	120.0 125.0 130.0	63.9 <b>62.3</b>	<b>6,790</b> * 6,610* <b>6,480</b> *
125.0 <b>130.0</b>	52.2 <b>50.2</b>	7,360 <b>6,830</b>	125.0 <b>130.0</b>	54.4 <b>52.4</b>	7,580 <b>7,030</b>	130.0 <b>135.0</b>	53.3 <b>51.5</b>	6,960 <b>6,480</b>	130.0 <b>135.0</b>	56.1 <b>54.2</b>	7,270 <b>6,760</b>	135.0 <b>140.0</b>	54.2 <b>52.4</b>	6,590 <b>6,100</b>	135.0 <b>140.0</b>	57.6 <b>55.7</b>	6,980 <b>6,450</b>	135.0 <b>140.0</b>	56.5 <b>54.8</b>	6,670 <b>6,190</b>	135.0 <b>140.0</b>	60.7 <b>58.9</b>	6,340* <b>6,210</b> *
135.0 <b>140.0</b>	48.2 <b>46.0</b>	6,320 <b>5,860</b>				140.0 <b>145.0</b>	49.5 <b>47.5</b>	5,990 <b>5,570</b>	140.0	52.1	6,260	145.0 <b>150.0</b>	50.6 <b>48.7</b>	5,680 <b>5,290</b>	145.0 <b>150.0</b>	53.8 <b>51.9</b>	5,990 <b>5,570</b>	145.0 <b>150.0</b>	53.2 <b>51.5</b>	5,770 <b>5,370</b>	145.0 <b>150.0</b>	57.1 <b>55.4</b>	6,080* <b>5,750</b>
145.0 <b>150.0</b> 155.0	43.9 <b>41.6</b> 39.2	5,310* <b>4,760</b> * 4,230*				150.0 <b>155.0</b> 160.0	45.5 <b>43.4</b> 41.1	5,090* <b>4,580</b> * 4,050*				155.0 <b>160.0</b> 165.0	46.8 <b>44.7</b> 42.7	4,800* <b>4,320</b> * 3,880*				155.0 <b>160.0</b> 165.0	49.7 <b>47.8</b> 46.0	4,960* <b>4,490</b> * 4,050*	155.0 <b>160.0</b>	53.5 <b>51.5</b>	5,350 <b>4,960</b>
<b>160.0</b> 165.0	<b>36.6</b> 33.9	<b>3,680</b> * 3,170*				<b>165.0</b> 170.0	<b>38.7</b> 36.3	<b>3,590</b> * 3,100*				<b>170.0</b> 175.0	<b>40.6</b> 38.3	<b>3,430</b> * 3,020*				<b>170.0</b> 175.0	<b>44.1</b> 42.1	<b>3,650</b> * 3,240*			
Ree		1	Ree	ves	1	Ree	ves	1	Rec	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1
	170	)' Boo	m																				
			t <b>J</b> ib						t <b>J</b> ib						t <b>J</b> ib						t <b>J</b> ib		
	(	o set An	igle (d	eg.)			(	O set An	gle (d	eg.)			(	O set Ar	gle (d	eg.)			(	O set An	gle (d	eg.)	

	170	)' Boo	m																				
		30 f	t <b>Ji</b> b					40 f	t <b>J</b> ib					50 f	t <b>J</b> ib					601	t <b>J</b> ib		
	(	Set An	gle (d	eg.)			(	O set An	gle (d	eg.)			(	O set An	gle (d	eg.)			(	O set Ar	igle (d	eg.)	
	10			30			10			30			10			30			10			30	
Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (Ibs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)
45.0 <b>50.0</b>	79.8 <b>78.3</b>	24,000* <b>24,000</b> *				50.0 <b>55.0</b>	79.6 <b>78.1</b>	24,000* <b>24,000</b> *				55.0 <b>60.0</b>	79.2 <b>77.9</b>	20,000* <b>20,000</b> *				55.0 <b>60.0</b>	80.0 <b>78.8</b>	18,000* <b>18,000</b> *			
55.0 <b>60.0</b>	76.8 <b>75.3</b>	24,000* <b>23,500</b>	55.0 <b>60.0</b>	79.4 <b>77.9</b>	21,000* <b>21,000</b> *	60.0 <b>65.0</b>	76.7 <b>75.3</b>	23,800 <b>21,250</b>	60.0 <b>65.0</b>	80.0 <b>78.6</b>	15,290* <b>14,770</b> *	65.0 <b>70.0</b>	76.5 <b>75.2</b>	20,000* <b>19,310</b>	70.0	79.1	11,170*	65.0 <b>70.0</b>	77.5 <b>76.2</b>	18,000* <b>18,000</b> *			
65.0 <b>70.0</b>	73.8 <b>72.4</b>	20,940 <b>18,820</b>	65.0 <b>70.0</b>	76.4 <b>74.9</b>	20,830* <b>19,530</b>	70.0 <b>75.0</b>	73.9 <b>72.4</b>	19,090 <b>17,150</b>	70.0 <b>75.0</b>	77.1 <b>75.6</b>	14,300* <b>13,840</b> *	75.0 <b>80.0</b>	73.8 <b>72.4</b>	17,350 <b>15,760</b>	75.0 <b>80.0</b>	77.6 <b>76.2</b>	10,800* <b>10,490</b> *	75.0 <b>80.0</b>	74.9 <b>73.6</b>	17,080* <b>15,890</b>	75.0 <b>80.0</b>	79.4 <b>78.1</b>	8,900* <b>8.610</b> *
75.0	70.8	16,880	75.0	73.2	17,520	80.0	71.0	15,560	80.0	74.1	13,420*	85.0	71.0	14,370	85.0	74.8	10,180*	85.0	72.3	14,500	85.0	76.7	8,350*
<b>80.0</b> 85.0	<b>69.3</b> 67.7	<b>15,320</b> 13,950	<b>80.0</b> 85.0	<b>71.7</b> 70.1	<b>15,890</b> 14,480	<b>85.0</b> 90.0	<b>69.5</b> 68.1	<b>14,170</b> 12,960	<b>85.0</b> 90.0	<b>72.6</b> 71.1	<b>13,050</b> * 12,690*	<b>90.0</b> 95.0	<b>69.6</b> 68.2	<b>13,130</b> 11,990	<b>90.0</b> 95.0	<b>73.4</b> 71.9	<b>9,890</b> * 9,610*	<b>90.0</b> 95.0	<b>71.0</b> 69.5	<b>13,270</b> 12,100	<b>90.0</b> 95.0	<b>75.4</b> 73.9	<b>8,110*</b> 7,870*
<b>90.0</b> 95.0	<b>66.2</b> 64.5	<b>12,740</b> 11,610	<b>90.0</b> 95.0	<b>68.6</b> 66.9	<b>13,240</b> 12,050	<b>95.0</b> 100.0	<b>66.5</b> 65.0	<b>11,810</b> 10,860	<b>95.0</b> 100.0	<b>69.5</b> 68.0	<b>12,360</b> * 11,440	<b>100.0</b> 105.0	<b>66.7</b> 65.3	<b>11,020</b> 10,160	<b>100.0</b> 105.0	<b>70.4</b> 68.9	<b>9,360</b> * 9,120*	<b>100.0</b> 105.0	<b>68.2</b> 66.8	<b>11,150</b> 10,270	<b>100.0</b> 105.0	<b>72.5</b> 71.1	<b>7,640*</b> 7,450*
100.0	62.9	10,670	100.0	65.2	11,080	105.0	63.5	10,000	105.0	66.4	10,530	110.0	63.9	9,390	110.0	67.4	8,900*	110.0	65.5	9,470	110.0	69.7	7,250*
105.0 <b>110.0</b>	61.3 <b>59.7</b>	9,810 <b>9,060</b>	105.0 <b>110.0</b>	63.6 <b>61.9</b>	10,200 <b>9,390</b>	110.0 <b>115.0</b>	61.9 <b>60.3</b>	9,230 <b>8,480</b>	110.0 <b>115.0</b>	64.8 <b>63.1</b>	9,720 <b>8,920</b>	115.0 <b>120.0</b>	62.3 <b>60.8</b>	8,610 <b>7,980</b>	115.0 <b>120.0</b>	65.8 <b>64.3</b>	8,680* <b>8,500</b>	115.0 <b>120.0</b>	64.0 <b>62.6</b>	8,730 <b>8,090</b>	115.0 <b>120.0</b>	68.2 <b>66.7</b>	7,050* <b>6,900</b> *
115.0 <b>120.0</b>	57.9 <b>56.2</b>	8,310 <b>7,670</b>	115.0 <b>120.0</b>	60.1 <b>58.3</b>	8,610	120.0 <b>125.0</b>	58.7 <b>57.0</b>	7,840 <b>7,270</b>	120.0 <b>125.0</b>	61.5 <b>59.8</b>	8,240	125.0 <b>130.0</b>	59.3 <b>57.7</b>	7,400	125.0 <b>130.0</b>	62.7 <b>61.1</b>	7,890	125.0 <b>130.0</b>	61.1 <b>59.7</b>	7,490	125.0 <b>130.0</b>	65.2 <b>63.7</b>	6,740* <b>6,590</b> *
125.0	54.4	7,090	125.0	56.5	<b>7,980</b> 7,360	130.0	55.4	6,720	130.0	58.1	<b>7,640</b> 7,070	135.0	56.1	<b>6,850</b> 6,340	135.0	59.5	<b>7,310</b> 6,760	135.0	58.2	<b>6,940</b> 6,450	135.0	62.2	6,450*
<b>130.0</b> 135.0	<b>52.6</b> 50.8	<b>6,560</b> 6,080	<b>130.0</b> 135.0	<b>54.7</b> 52.8	<b>6,810</b> 6,300	<b>135.0</b> 140.0	<b>53.7</b> 51.8	<b>6,230</b> 5,750	<b>135.0</b> 140.0	<b>56.3</b> 54.4	<b>6,540</b> 6,040	<b>140.0</b> 145.0	<b>54.4</b> 52.8	<b>5,860</b> 5,440	<b>140.0</b> 145.0	<b>57.7</b> 56.0	<b>6,260</b> 5,790	<b>140.0</b> 145.0	<b>56.6</b> 55.1	<b>5,950</b> 5,530	<b>140.0</b> 145.0	<b>60.5</b> 58.9	<b>6,300</b> * 5,970
<b>140.0</b> 145.0	<b>48.8</b> 46.8	<b>5,590</b> 5,040*				<b>145.0</b> 150.0	<b>50.1</b> 48.2	<b>5,290</b> * 4.780*	145.0	52.6	5,590	<b>150.0</b> 155.0	<b>51.1</b> 49.3	<b>4,960</b> * 4,490*	<b>150.0</b> 155.0	<b>54.2</b> 52.4	<b>5,370</b> 4,930*	<b>150.0</b> 155.0	<b>53.5</b> 51.9	<b>5,070</b> * 4,620*	<b>150.0</b> 155.0	<b>57.3</b> 55.6	<b>5,550</b> 5,150
150.0	44.8	4,540*				155.0	46.3	4,320*				160.0	47.4	4,030*	133.0	32.4	4,730"	160.0	50.1	4,160*	160.0	53.8	4,670*
155.0 <b>160.0</b>	42.7 <b>40.4</b>	4,030* <b>3,520</b> *				160.0 <b>165.0</b>	44.2 <b>42.2</b>	3,810* <b>3,370</b> *				165.0 <b>170.0</b>	45.6 <b>43.7</b>	3,610* <b>3,190</b> *				165.0 <b>170.0</b>	48.5 <b>46.7</b>	3,760* <b>3,370</b> *	165.0	52.0	4,250*
165.0	38.1	3,040*						-,-						., .,						-,-,-			
Ree	ves	1	Rec	ves	1																		

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	180	)' Boo	m																				
	100		t Jib					40 f	t <b>J</b> ib					50 1	ft <b>J</b> ib					60 t	t <b>J</b> ib		
		) set An		eg.)			(	) set An		eg.)			(	O set Ar		eg.)			(	O set An		eg.)	
	10			30			10			30			10		ļ.,	30			10			30	
Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load									
(ft) 50.0	(deg.) 78.9	(lbs) 22,200*	(ft)	(deg.)	(lbs)	(ft) 55.0	(deg.) 78.7	(lbs) 21,670*	(ft)	(deg.)	(lbs)	(ft) 55.0	(deg.) 79.7	(lbs) 20,000*	(ft)	(deg.)	(lbs)	(ft) 60.0	(deg.) 79.3	(lbs) 18,000*	(ft)	(deg.)	(lbs)
55.0	77.4	21,750*	55.0	79.9	21,000*	60.0	77.3	21,070*				60.0	78.4	20,000*				<b>65.0</b>	<b>78.0</b>	18,000*			
60.0	76.0	21,360*	60.0	78.5	20,870*	65.0	76.0	20,870*	65.0	79.1	14,940*	65.0	77.1	20,000*				70.0	76.8	18,000*			
65.0	74.6	20,700	65.0	77.1	20,500*	70.0	74.7	18,840	70.0	77.7	14,480*	70.0	75.9	19,060	70.0	79.6	11,300*	75.0	75.5	17,230	75.0	79.9	8,990*
70.0 <b>75.0</b>	73.2 <b>71.7</b>	18,560 <b>16,600</b>	70.0 <b>75.0</b>	75.6 <b>74.1</b>	19,310 <b>17,300</b>	75.0 <b>80.0</b>	73.2 <b>71.9</b>	16,880 <b>15,290</b>	75.0 <b>80.0</b>	76.3 <b>74.9</b>	14,020* <b>13,620</b> *	75.0 <b>80.0</b>	74.5 <b>73.2</b>	17,100 <b>15,490</b>	75.0 <b>80.0</b>	78.2 <b>76.9</b>	10,930* <b>10,600</b> *	80.0 <b>85.0</b>	74.3 <b>73.0</b>	15,650 <b>14,240</b>	80.0 <b>85.0</b>	78.6 <b>77.3</b>	8,700* <b>8,460</b> *
80.0	70.3	15,030	80.0	72.6	15,670	85.0	70.5	13,910	85.0	73.5	13,240*	85.0	71.9	14,100	85.0	75.5	10,310*	90.0	71.8	13,020	90.0	76.0	8,200*
85.0	68.8	13,660	85.0	71.2	14,240	90.0	69.1	12,690	90.0	72.1	12,890*	90.0	70.6	12,890	90.0	74.2	10,030*	95.0	70.4	11,860	95.0	74.6	7,950*
90.0 <b>95.0</b>	67.4 <b>65.8</b>	12,470 <b>11,330</b>	90.0 <b>95.0</b>	69.7 <b>68.1</b>	13,000 <b>11,810</b>	95.0 <b>100.0</b>	67.6 <b>66.2</b>	11,550 <b>10,600</b>	95.0 <b>100.0</b>	70.5 <b>69.1</b>	12,210 <b>11,190</b>	95.0 <b>100.0</b>	69.2 <b>67.8</b>	11,720 <b>10,750</b>	95.0 <b>100.0</b>	72.7 <b>71.4</b>	9,740* <b>9,500</b> *	100.0 <b>105.0</b>	69.2 <b>67.9</b>	10,890 <b>10,000</b>	100.0 <b>105.0</b>	73.3 <b>72.0</b>	7,760* <b>7,530</b> *
100.0	64.3	10,380	100.0	66.5	10,820	105.0	64.8	9,740	105.0	67.6	10,290	105.0	66.5	9,890	105.0	70.0	9,280*	110.0	66.6	9,230	110.0	70.7	7,360*
105.0	62.8	9,540	105.0	65.0	9,940	110.0	63.3	8,970	110.0	66.1	9,470	110.0	65.1	9,100	110.0	68.5	9,060*	115.0	65.2	8,460	115.0	69.2	7,160*
110.0	61.3	8,770	110.0	63.4	9,140	115.0	61.8	8,200 7,500	115.0	64.5	8,680	115.0	63.6	8,350	115.0	67.0	8,840*	120.0	63.8	7,820	120.0	67.8	7,010*
<b>115.0</b> 120.0	<b>59.6</b> 58.0	<b>8,020</b> 7,380	<b>115.0</b> 120.0	<b>61.7</b> 60.1	<b>8,370</b> 7,710	<b>120.0</b> 125.0	<b>60.3</b> 58.8	<b>7,560</b> 6,980	<b>120.0</b> 125.0	<b>63.0</b> 61.4	<b>8,000</b> 7,380	<b>120.0</b> 125.0	<b>62.2</b> 60.8	<b>7,710</b> 7,120	120.0 125.0	<b>65.6</b> 64.1	<b>8,280</b> 7,640	<b>125.0</b> 130.0	<b>62.5</b> 61.1	<b>7,230</b> 6,670	<b>125.0</b> 130.0	<b>66.4</b> 65.0	<b>6,850</b> * 6,700*
125.0	56.4	6,810	125.0	58.4	7,090	130.0	57.2	6,430	130.0	59.8	6,830	130.0	59.3	6,560	130.0	62.6	7,070	135.0	59.7	6,150*	135.0	63.6	6,540*
130.0	54.7	6,280	130.0	56.8	6,540	135.0	55.6	5,950	135.0	58.2	6,300	135.0	57.8	6,080	135.0	61.1	6,540	140.0	58.2	5,590*	140.0	62.0	6,210
<b>135.0</b> 140.0	<b>53.0</b> 51.2	<b>5,770</b> * 5,180*	<b>135.0</b> 140.0	<b>55.0</b> 53.1	<b>6,040</b> 5,480*	<b>140.0</b> 145.0	<b>53.9</b> 52.3	<b>5,370</b> * 4,870*	140.0 145.0	<b>56.4</b> 54.7	<b>5,770</b> 5,260*	<b>140.0</b> 145.0	<b>56.2</b> 54.7	<b>5,510</b> * 5,020*	140.0 145.0	<b>59.4</b> 57.8	<b>6,010</b> 5,510*	<b>145.0</b> 150.0	<b>56.8</b> 55.3	<b>5,110</b> * 4,620*	1 <b>45.0</b> 150.0	<b>60.5</b> 59.0	<b>5,700</b> * 5,220*
145.0	49.4	4,650*	145.0	51.3	4,960*	150.0	<b>50.6</b>	4,380*	150.0	53.0	4,760*	150.0	53.1	4,540*	150.0	56.2	5,020*	155.0	<b>53.8</b>	4,210*	155.0	<b>57.5</b>	4,760*
150.0	47.6	4,160*			,	155.0	48.8	3,920*			,	155.0	51.5	4,100*	155.0	54.5	4,560*	160.0	52.2	3,760*	160.0	55.8	4,290*
155.0	45.7	3,680*				160.0	46.9	3,460*				160.0	49.8	3,630*	160.0	52.7	4,070*	165.0	50.6	3,370*	165.0	54.1	3,880*
160.0	43.6	3,210*				165.0	45.1	3,040*				165.0	48.1	3,240*							170.0	52.4	3,480*
Ree	ves	1	Rec	eves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1									
	190	)' Boo	m																				
		30 t	t <b>J</b> ib					40 f	t <b>J</b> ib					50 t	ft <b>J</b> ib					60 t	t <b>J</b> ib		
		O set An	gle (d	<u> </u>				O set An	gle (d	<u> </u>				O set Ar	ngle (d	<u> </u>				O set An	gle (d	<u> </u>	
Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated	Load	10 Boom	Rated	Load	30 Boom	Rated
Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)									
50.0	79.4	19,440*	(11)	(uog.)	(100)	55.0	79.2	18,950*	(11)	(ucg.)	(100)	60.0	78.9	18,470*	(11)	(ucg.)	(100)	60.0	79.7	18,000*	(11)	(dog.)	(100)
55.0	78.0	19,020*				60.0	77.9	18,560*				65.0	77.7	18,070*				65.0	78.5	17,960*			
60.0 <b>65.0</b>	76.7 <b>75.4</b>	18,620* <b>18,250</b> *	60.0 <b>65.0</b>	79.0 <b>77.7</b>	18,250* <b>17,870</b> *	65.0 <b>70.0</b>	76.6 <b>75.4</b>	18,160* <b>17,810</b> *	65.0 <b>70.0</b>	79.6 <b>78.3</b>	15,100* <b>14,660</b> *	70.0 <b>75.0</b>	76.5 <b>75.2</b>	17,700* <b>16,930</b>	75.0	78.7	11,040*	70.0 <b>75.0</b>	77.4 <b>76.1</b>	17,590* <b>17,080</b>			
70.0	74.0	17,870*	70.0	76.3	17,520*	75.0		16,710	75.0	76.9	14,190*	80.0	73.9	15,320	80.0	77.5	10,730*	80.0	74.9	15,470	80.0	79.1	8,790*
75.0	72.6	16,420	75.0	74.9	17,150	80.0	72.7	15,120	80.0	75.6	13,800*	85.0	72.7	13,930	85.0	76.2	10,420*	85.0	73.8	14,060	85.0	77.9	8,550*
80.0 <b>85.0</b>	71.2 <b>69.9</b>	14,850 <b>13,490</b>	80.0 <b>85.0</b>	73.5 <b>72.1</b>	15,520 <b>14,080</b>	85.0 <b>90.0</b>	71.4 <b>70.1</b>	13,730 <b>12,520</b>	85.0 <b>90.0</b>	74.3 <b>72.9</b>	13,420* <b>13,090</b> *	90.0 <b>95.0</b>	71.4 <b>70.1</b>	12,690 <b>11,550</b>	90.0 <b>95.0</b>	74.9 <b>73.5</b>	10,160* <b>9,870</b> *	90.0 <b>95.0</b>	72.6 <b>71.3</b>	12,830 <b>11,680</b>	90.0 <b>95.0</b>	76.6 <b>75.3</b>	8,310* <b>8,060</b> *
90.0	68.5	12,270	90.0	70.7	12,850	95.0	68.7	11,370	95.0	71.5	12,050	100.0	68.8	10,580	100.0	72.2	9,630*	100.0	70.1	10,710	100.0	74.1	7,840*
95.0	67.0	11,150	95.0	69.2	11,660	100.0	67.3	10,420	100.0	<b>70.1</b>	11,040	105.0	67.5	9,720	105.0		9,410*	105.0	68.8	9,830	105.0	72.8	<b>7,640</b> *
100.0 <b>105.0</b>	65.6 <b>64.1</b>	10,200 <b>9,340</b>	100.0 <b>105.0</b>	67.7 <b>66.3</b>	10,670 <b>9,780</b>	105.0 <b>110.0</b>	66.0 <b>64.6</b>	9,540 <b>8,770</b>	105.0 <b>110.0</b>	68.7 <b>67.3</b>	10,140 <b>9,320</b>	110.0 <b>115.0</b>	66.2 <b>64.8</b>	8,920 <b>8,170</b>	110.0 <b>115.0</b>		9,190* <b>8,810</b>	110.0 <b>115.0</b>	67.6 <b>66.3</b>	9,030 <b>8,260</b> *	110.0 <b>115.0</b>	71.5 <b>70.2</b>	7,450* <b>7,270</b> *
110.0	62.7	8,570	110.0	64.8	8,970	115.0	63.1	8,020	115.0	65.8	8,530	120.0	63.5	7,510	120.0	66.7	8,130	120.0	65.0	7,580*	120.0	68.9	7,090*
115.0	<b>61.1</b>	<b>7,840</b>	115.0	<b>63.2</b>	<b>8,200</b>	120.0	<b>61.7</b>	<b>7,380</b>	120.0	62.0	<b>7,840</b>	125.0	<b>62.1</b>	<b>6,900</b> *	125.0		<b>7,490</b>	<b>125.0</b>	63.7	<b>6,940</b> *	<b>125.0</b>	66.2	<b>6,940</b> *
120.0 <b>125.0</b>	59.6 <b>58.1</b>	7,200 <b>6,630</b>	120.0 <b>125.0</b>	61.7 <b>60.1</b>	7,530 <b>6,940</b>	125.0 <b>130.0</b>	60.3 <b>58.8</b>	6,790 <b>6,190</b> *	125.0 <b>130.0</b>	62.9 <b>61.4</b>	7,230 <b>6,650</b>	130.0 <b>135.0</b>	60.8 <b>59.4</b>	6,300* <b>5,750</b> *	130.0 <b>135.0</b>	63.9 <b>62.5</b>	6,870* <b>6,300</b> *	130.0 <b>135.0</b>	62.4 <b>61.1</b>	6,370* <b>5,820</b> *	130.0 <b>135.0</b>	66.2 <b>64.8</b>	6,790* <b>6,480</b> *
130.0	56.6	6,040*	130.0	58.5	6,370	135.0	57.4	5,640*	135.0	59.9	6,080*	140.0	57.9	5,200*	140.0	60.9	5,730*	140.0	59.7	5,260*	140.0	63.4	5,900*
<b>135.0</b> 140.0	<b>55.0</b> 53.3	<b>5,460</b> * 4,890*	<b>135.0</b> 140.0	<b>56.9</b> 55.2	<b>5,790</b> * 5,220*	<b>140.0</b> 145.0	<b>55.8</b> 54.2	<b>5,070</b> * 4,580*	<b>140.0</b> 145.0	<b>58.2</b> 56.6	<b>5,510</b> * 4,980*	<b>145.0</b> 150.0	<b>56.4</b> 55.0	<b>4,710</b> * 4,250*	145.0 150.0	<b>59.5</b> 57.9	<b>5,220</b> * 4,730*	<b>145.0</b> 150.0	<b>58.3</b> 56.9	<b>4,780</b> * 4,340*	145.0 150.0	<b>62.0</b> 60.5	<b>5,400</b> * 4,930*
145.0		4,380*	145.0	<b>53.5</b>	4,690*	150.0	<b>52.7</b>	4,120*	150.0	<b>55.0</b>	4,490*	155.0	53.5	3,810*	155.0		4,290*	155.0	55.5	3,900*	155.0	<b>59.1</b>	4,470*
150.0		3,920*	150.0	51.8	4,210*	155.0	51.0	3,680*	155.0	53.4	4,030*	160.0	51.8	3,370*	160.0		3,830*	160.0	54.0	3,480*	160.0	57.5	4,030*
155.0	48.2	3,460*				160.0	49.3	3,210*							165.0	53.1	3,410*	165.0	52.6	3,080*	<b>165.0</b> 170.0	<b>56.0</b> 54.4	<b>3,610*</b> 3,240*
																							-,0
I Poo	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Rec	eves	1	Ree	eves	1	Ree	ves	1	Ree	ves	1

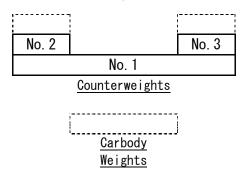
### **Supplemental Data - Clamshell**

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- Rated loads do not exceed 66% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk \* in the charts.
- The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
  - Machine shall be positively secured to prevent shifting.
  - Boom backstops are required for all boom length.
  - Gantry must be fully raised position for all operations.
  - Crawlers must be fully extended and be locked in position.
  - Must have 43,600 lbs (2) Counterweights installed, and without carbody weights.
- Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- 7. The boom should be erected over the front of the crawlers, not laterally.
- 8. Least stable position is over the side.
- Maximum hoist load for number of reeving parts of line for hoist rope.

#### Maximum Load for Main Boom

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

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



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

#### Clamshell

#### Boom:

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

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

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

#### **Boom Component Chart:**

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

Base = Boom Base

Insert: A = 10 ft (3.05 m)

B = 20 ft (6.10 m)

C = 40 ft (12.2 m)

Tip = Boom Tip

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

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

40	0' Boo	m	50	)' Boo	m	60	)' Boo	m 💮
Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (Ibs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (Ibs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	63.7 60.5 57.1 53.5 49.8 45.9 41.7 37.0 31.8 25.7	22,000 * 22,000 * 22,000 * 22,000 * 22,000 * 21,400 * 20,200 * 19,200 * 18,200 *	26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 48.0	64.3 61.7 59.0 56.3 53.5 50.5 47.4 44.2 40.7 37.0 32.9 28.3	22,000 * 22,000 * 22,000 * 22,000 * 21,400 * 20,200 * 19,200 * 17,300 * 16,500 * 15,800 * 15,200 *	30.0 32.0 34.0 36.0 38.0 40.0 42.0 46.0 48.0 50.0 54.0 56.0 58.0	64.6 62.5 60.3 58.1 55.8 53.4 51.0 48.4 45.8 43.0 40.1 37.0 33.6 29.9 25.7	22,000 * 22,000 * 21,400 * 20,200 * 19,200 * 18,200 * 17,300 * 16,500 * 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,500 * 12,500 *

## Clamshell

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

70	)' Boo	m	80	)' Boo	m	90	)' Boo	m
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius		Rated Load	Radius		Rated Load	Radius		Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
34.0	64.9	21,400 *	38.0	65.1	19,200 *	42.0	65.2	17,300 *
36.0	63.1	20,200 *	40.0	63.5	18,200 *	44.0	63.8	16,500 *
38.0 40.0	61.2 59.3	19,200 * 18,200 *	<b>42.0</b> 44.0	61.9 60.2	17,300 * 16,500 *	46.0 <b>48.0</b>	62.4 60.9	15,800 * 15,200 *
42.0	57.4	17,300 *	46.0	58.6	15,800 *	50.0	59.5	14,600 *
44.0	55.4	16,500 *	48.0	56.9	15,200 *	52.0	58.0	14,000 *
46.0 48.0	53.4 51.3	15,800 * 15,200 *	50.0 52.0	55.1 53.3	14,600 * 14,000 *	54.0 56.0	56.4 54.9	13,500 * 13,000 *
50.0	49.1	14,600 *	54.0	51.5	13,500 *	58.0	53.3	12,500 *
52.0	46.9	14,000 *	56.0	49.6	13,000 *	60.0	51.7	12,100 *
54.0	44.6	13,500 *	58.0	47.7	12,500 *	62.0	50.0	11,700 *
56.0 58.0	42.2 39.6	13,000 * 12,500 *	60.0 62.0	45.7 43.7	12,100 * 11,700 *	64.0 66.0	48.3 46.6	11,400 * 11,000 *
60.0	37.0	12,100 *	64.0	41.5	11,400 *	68.0	44.8	10,700 *
62.0	34.1	11,700 *	66.0	39.3	11,000 *	70.0	43.0	10,400 *
64.0 66.0	31.0 27.6	11,400 * 11,000 *	68.0 70.0	37.0 34.5	10,700 * 10,400 *	72.0 74.0	41.0 39.0	10,100 * 9,700
00.0	27.0	11,000	72.0	31.8	10,100 *	76.0	36.9	9,200
			74.0	28.9	9,800 *	78.0	34.7	9,000
			76.0	25.7	9,400 *	80.0 82.0	32.4 29.9	8,500 8,300
						84.0	27.2	7,900
								·
10	0' Boo	om	11	0' Boo	om	12	0' Boo	om
10 Load	Boom	om 360°	11 Load	0' Boom	om 360°	12 Load	0' Boom	om 360°
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) 46.0	Boom Angle (deg.) 65.4	360° Rated Load (lbs) 15,800 *	Load Radius (ft) 56.0	Boom Angle (deg.) 62.0	360° Rated Load (lbs) 11,900 *	Load Radius (ft) 56.0	Boom Angle (deg.) 64.5	360° Rated Load (lbs) 11,400 *
Load Radius (ft)	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) 46.0 48.0 50.0 52.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 *
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 *
Load Radius (ft) 46.0 48.0 50.0 52.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 *	Load Radius (ft) 56.0 58.0 60.0 62.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3	360° Rated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 *
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3	360° Rated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900
Load Radius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0 62.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0	360° Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0 60.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3	360° Rated Load (lbs) 15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6	360° Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 62.0 64.0 66.0 68.0 70.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 66.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300	Load Radius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300 8,900 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800
Load Radius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,400 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400	Load Radius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,500 7,200 7,000 6,800 6,600 6,400 6,200	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000
Load Radius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,400 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200	Load Radius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700
Load Radius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9 30.7	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200 7,000	Load Radius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500
Load Radius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0 32.9	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,400 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200	Load Radius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0 104.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9 35.3 33.6	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500 5,300 5,100
Load Radius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 40.6 38.8 36.9 35.0 32.9 30.7 28.3	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200 7,000 6,800	Load Radius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2 27.0	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700 5,500	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9 35.3	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500 5,300
Load Padius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8 50.4 48.8 47.3 45.7 44.1 40.6 38.8 36.9 35.0 32.9 30.7 28.3	360° Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200 7,000 6,800	Load Radius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2 27.0	360' Rated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,500 7,200 7,000 6,800 6,600 6,400 6,200 5,900 5,700 5,500	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0 104.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9 41.5 40.0 38.5 36.9 35.3 33.6	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800 6,600 6,400 6,200 6,000 5,700 5,500 5,300 5,100

Refer to notes on page 29.

#### Supplemental Data - Barge

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk \* in the charts.
- The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
  - Machine shall be positively secured to prevent shifting.
  - Boom backstops are required for all boom length.
  - Gantry must be fully raised position for all operations.
  - Crawlers must be fully extended and be locked in position.
  - Must have 69,000 lbs (5) Counterweights fully installed.
  - Must have 31,700 lbs (2) Carbody weights fully installed.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib Length	Aux Sheave	30 ft	40 ft	50 ft	60 ft
Deduct (lbs)	430		Not Ap	plicable	

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

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

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

#### Maximum Load for Main Boom

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

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

#### Maximum Load for Auxiliary Sheave

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

14. Weight of recommended hook block.

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

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

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

Barge

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

	40'	'Boor	n				50	Boon	n				60	' Boon	n		
				d Load (lk	ns)				60° Rated	l Load (It	ns)				60° Rated	d Load (Ir	ns)
Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)		Machine List	Machine List	Machine List	Machine List
11.0	80.5	220,000 *				12.0	81.2	213,200*				13.0	81.7	200,400 *			
12.0	79.0	213,300 *				13.0	80.0	200,600 *				14.0	80.7	187,400 *			
13.0 14.0	77.5 76.0	200,800 * 188,100 *				14.0 15.0	78.9 77.7	187,800 * 175,600 *				15.0 16.0	79.8 78.8	175,200 * 164,800 *			
15.0	74.6	175,900 *	175,900 *			16.0	76.6	165,300 *				17.0	77.8	155,500 *			
16.0	73.1	165,500 *	165,500 *			17.0	75.4	156,000 *				18.0	76.8	146,900 *			
17.0	71.6	156,300 *	156,300 *	127,700 *		18.0	74.2	147,400 *	143,200 *			19.0	75.9	139,800 *	123,900 *		
18.0	70.1	147,800 * 140,500 *	146,400 * 134,600 *	126,100 *		19.0	72.9	140,100 *	132,200 *			20.0	74.9	132,200	118,100 *		
19.0 20.0	68.5 66.9	132,800	124,900	122,400 * 116,500 *	100,300 *	20.0	71.7 69.3	132,400 115,300	122,900 106,800	98,500 *		24.0	72.9 70.9	115,100	105,300 93,000	81,600 *	
22.0	63.7	115,600	108,300	103,400	97,800 *	24.0	66.8	101,000	94,400	89,500 *	77,800 *	26.0	68.8	89,100	83,200	78,700	
24.0	60.4	101,300	95,600	92,000	88,400	26.0	64.3	89,400	84,500	80,700	75,600 *	28.0	66.7	80,500	75,300	71,600	63,000 *
26.0	57.0	89,600	85,600	82,700	79,900	28.0	61.7	80,700	76,400	73,400	70,700	30.0	64.6	72,800	68,700	65,700	61,500 *
28.0 30.0	53.4 49.8	80,900 73,300	77,400 70,600	75,100 68,700	72,900 67,000	30.0 32.0	59.1 56.3	73,000 67,000	69,700 63,900	67,200 61,900	64,900 60,000	32.0 34.0	62.5 60.3	66,600 61,600	63,200 58,400	60,600 56,200	58,400 54,400
32.0	45.8	67,200	64,800	63,400	62,000	34.0	53.4	62,000	59,100	57,400	55,900	36.0	58.0	57,300	54,200	52,400	50,800
34.0	41.2	61,700	60,000	58,900	57,800	36.0	50.3	57,800	55,000	53,600	52,300	38.0	55.7	53,100	50,600	49,100	47,700
36.0	36.2	56,600	55,700 *	54,700 *	53,700 *	38.0	47.3	53,600	51,400	50,100	49,000	40.0	53.4	49,300	47,500	46,100	44,900
38.0 40.0	31.1 25.4	51,500 45,900 *	51,000 * 44,800 *	49,700 * 43,600 *	48,400 * 42,500 *	40.0 42.0	44.0 40.4	49,800 47,000	48,100 45,400	47,200 44,600	46,300 43,800	42.0 44.0	50.9 48.3	46,600 43,800	44,600 42,100	43,500 41,100	42,400 40,200
40.0	23.4	43,900	44,000	43,000	42,300	44.0	36.7	44,300	42,900	42,200	41,500	46.0	45.8	41,100	39,800	38,900	38,100
						46.0	62.9	41,500	40,600	40,000	39,500	48.0	42.8	39,200	37,700	37,000	36,300
						48.0	27.6	38,300	38,200 *	37,400 *	36,700 *	50.0	39.9	37,200	35,900	35,300	34,800
						50.0	22.3	35,100	34,800 *	33,900 *		55.0	31.2	32,900	31,900 *	31,500 *	31,100 *
												60.0	20.7	28,600 *			
Don		_												_	_		
Ree	eves	8	7	6	4	Ree	eves	8	6	4	4	Ree	eves	8	5	4	4
Ree		Boor		6	4	Ree		8 Boon		4	4	Ree		' <mark>Boo</mark> r	_	4	4
ree		Boor	n	d Load (lk		Ree		Boon				Rec		'Boor	_		
Load Radius	<b>70</b> Boom	Boor	n			Load Radius	80 Boom	Boon	n			Load Radius	90 Boom	'Boor	n		
Load Radius (ft)	Boom Angle (deg.)	Boon 3  O Degree Machine List	n 60° Rated	d Load (II).	os) 2 Degree	Load Radius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	n 60° Rateo	Load (Ik	os) 2 Degree	Load Padius (ft)	Boom Angle (deg.)	Boon 3 0 Degree Machine List	n 60° Rated	d Load (Ik	os) 2 Degree
Load Radius (ft)	Boom Angle (deg.)	Boor  O Degree Machine List  151,000 *	60° Rateo	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.) 81.6	Boon 30 0 Degree Machine List 151,000*	1 Degree Machine	Load (II) 2 Degree Machine	2 Degree Machine	Load Padius (ft)	Boom Angle (deg.) 81.9	Boor  3  O Degree Machine List  125,800 *	60° Rateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0	Boom Angle (deg.) 81.3 80.4	30 Degree Machine List 151,000 * 151,000 *	60° Rateo	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 16.0 17.0	Boom Angle (deg.) 81.6 80.9	30 Degree Machine List 151,000 * 149,300 *	1 Degree Machine	Load (II) 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0	Boom Angle (deg.) 81.9 81.3	30 Degree Machine List 125,800 * 125,800 *	60° Rateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft)	Boom Angle (deg.)	Boor  O Degree Machine List  151,000 *	60° Rateo	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)	Boom Angle (deg.) 81.6	Boon 30 0 Degree Machine List 151,000*	1 Degree Machine	Load (II) 2 Degree Machine	2 Degree Machine	Load Padius (ft)	Boom Angle (deg.) 81.9	Boor  3  O Degree Machine List  125,800 *	60° Rateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Padius (ft)  15.0 16.0 17.0	Boom Angle (deg.) 81.3 80.4 79.6	30 Degree Machine List 151,000 * 151,000 * 149,400 *	60° Rateo	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0	Boom Angle (deg.) 81.6 80.9 80.2	Degree Machine List  151,000 * 149,300 * 146,500 *	1 Degree Machine	Load (II) 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0	Boom Angle (deg.) 81.9 81.3 80.7	30 Degree Machine List 125,800 * 125,800 * 125,800 *	60° Rateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1	30 Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200	60° Rateo	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)  16.0 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100	1 Degree Machine	Load (II) 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	60° Rateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4	30 Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400	1 Degree Machine List	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)  16.0 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8	## Degree Machine List   151,000 * 149,300 * 146,500 * 139,400 * 115,100	1 Degree Machine List	Load (II) 2 Degree Machine	2 Degree Machine	Load Radius (ft)  17.0 18.0 19.0 20.0 22.0 24.0 26.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100	10 Degree Machine List	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1	30 Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200	60° Rateo	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft)  16.0 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100	1 Degree Machine	Load (II) 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800	60° Rateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3	30 Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800	92,400 82,800 75,000	2 Degree Machine List  68,700 * 67,400 *	2 Degree Machine List	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2	## December 1	1 Degree Machine List  81,800 74,100 67,700	List 2 Degree Machine List 58,100 *	2 Degree Machine List	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 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1	30 Degree Machine List 125,800 * 125,800 * 124,000 * 112,500 * 112,500 * 110,800 89,100 80,500 72,800 66,600	1 Degree Machine List  73,000 * 66,900 61,600	2 Degree Machine List	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5	30 Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000	92,400 82,800 75,000 68,500	2 Degree Machine List  68,700 * 67,400 * 65,000	2 Degree Machine List 53,600 *	Load Radius (ft)  16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2 69.7	## December 1	1 Degree Machine List  81,800 74,100 67,700 62,200	# Load (III) 2 Degree Machine List 58,100 * 57,100 *	2 Degree Machine List	Load Radius (ft)  17.0  18.0  19.0  20.0  24.0  26.0  28.0  30.0  32.0  34.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 110,800 89,100 80,500 72,800 66,600 61,600	73,000 * 66,900 61,600 56,900	2 Degree Machine List  50,600 * 49,600 *	2 Degree Machine List
Load Radius (ft) 15.0 16.0 17.0 18.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7	## Degree Machine List	92,400 82,800 75,000 68,500 63,000	68,700 * 67,400 * 65,000 60,100	2 Degree Machine List 53,600 * 51,800 *	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0	80 Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2 69.7 68.2	## Degree Machine List	81,800 74,100 67,700 62,200 57,500	58,100 * 54,700	2 Degree Machine List  46,400 * 44,700 *	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 77.4 76.1 74.8 73.5 72.1 70.8 69.4	## Door   30 Degree   Machine List   125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 110,800   89,100   80,500   72,800   66,600   61,600   57,300	73,000 * 66,900 61,600 56,900 53,000	2 Degree Machine List  50,600 * 49,600 * 49,000 *	2 Degree Machine List  39,900 *
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3 68.5	30 Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200 115,400 101,300 89,600 80,800 73,000	92,400 82,800 75,000 68,500	2 Degree Machine List  68,700 * 67,400 * 65,000	2 Degree Machine List 53,600 *	Load Radius (ft)  16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2 69.7	## December 1	1 Degree Machine List  81,800 74,100 67,700 62,200	# Load (III) 2 Degree Machine List 58,100 * 57,100 *	2 Degree Machine List	Load Radius (ft)  17.0  18.0  19.0  20.0  24.0  26.0  28.0  30.0  32.0  34.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 110,800 89,100 80,500 72,800 66,600 61,600	73,000 * 66,900 61,600 56,900	2 Degree Machine List  50,600 * 49,600 *	2 Degree Machine List
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 72.0 68.5 66.7 64.9 63.0 61.2	## Company of the com	92,400 82,800 75,000 68,500 63,000 58,300	68,700 * 67,400 * 65,000 60,100 55,700	2 Degree Machine List 53,600 * 51,800 * 49,900 *	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	800 800 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8 71.2 69.7 68.2 66.6	## Degree Machine List	81,800 74,100 67,700 62,200 57,500 53,500	58,100 * 57,100 * 54,700 51,000	2 Degree Machine List  46,400 * 44,700 * 43,300 *	Load Padius (t) 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0	900 Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500	73,000 * 66,900 61,600 56,900 49,500	50,600 * 49,000 * 47,000	2 Degree Machine List  39,900 * 38,500 *
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3	## Company	92,400 82,800 75,000 68,500 63,000 58,300 54,200 50,600 47,400	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 43,800	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 71.2 69.7 68.2 66.6 65.1 63.5 61.8	## Description	81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800 44,100	58,100 * 57,100 * 54,700 \$ 54,700 \$ 54,700 45,000 \$ 45,000 \$ 42,400	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 *	Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	900  Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8	## Company	73,000 * 66,900 61,600 56,900 49,500 46,300 43,600 41,100	50,600 * 49,600 * 47,000 44,200 41,700 39,500	39,900 * 38,500 * 37,600 * 36,400 * 35,400 *
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0 42.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3	## Deprive Machine List	92,400 82,800 75,000 68,500 63,000 58,300 54,200 50,600 47,400 44,600	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 43,800 41,500	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	800 Angle (deg.) 81.6 80.9 80.2 79.5 78.8 74.3 75.8 71.2 69.7 68.2 66.6 65.1 63.5 61.8 60.2	## Description	81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800 44,100 41,600	58,100 * 57,100 * 54,700 * 51,000 47,800 42,400 40,100	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0	900  Boom Angle (deg.) 81.9 81.3 80.7 77.4 80.0 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 89,100 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900	73,000 * 66,900 61,600 56,900 49,500 46,300 43,600 41,100 38,900	50,600 * 49,600 * 47,000 * 44,200 * 41,700 39,500 37,400	39,900 * 38,500 * 37,600 * 36,400 * 35,400 * 34,300
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 55.3	## Deprive Machine List	92,400 82,800 75,000 68,500 63,000 58,300 54,200 50,600 47,400 44,600 42,100	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800	25)  2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 71.2 69.7 68.2 66.6 65.1 63.5 61.8 60.2 58.5	## Description	81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800 44,100 41,600 39,300	58,100 * 57,100 * 54,700 * 51,000 47,800 42,400 40,100 38,000	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700 36,200	Load Padius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	900  Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8	## Degree Machine List   125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 * 89,100 * 66,600 * 61,600 * 57,300 * 53,100 * 49,300 * 46,500 * 43,700 * 40,900 * 38,900 * 100,000 * 1	73,000 * 66,900 61,600 56,900 53,000 49,500 46,300 43,600 41,100 38,900 36,900	50,600 * 49,000 * 47,000 41,700 39,500 37,400 35,600	39,900 * 38,500 * 36,400 * 36,400 * 34,300 33,200
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3	## Deprive Machine List	92,400 82,800 75,000 68,500 63,000 58,300 54,200 50,600 47,400 44,600	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 43,800 41,500	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0	800 Angle (deg.) 81.6 80.9 80.2 79.5 78.8 74.3 75.8 71.2 69.7 68.2 66.6 65.1 63.5 61.8 60.2	## Description	81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800 44,100 41,600	58,100 * 57,100 * 54,700 * 51,000 47,800 42,400 40,100	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 34.0 38.0 40.0 44.0 46.0 48.0	900  Boom Angle (deg.) 81.9 81.3 80.7 77.4 80.0 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 89,100 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900	73,000 * 66,900 61,600 56,900 49,500 46,300 43,600 41,100 38,900	50,600 * 49,600 * 47,000 * 44,200 * 41,700 39,500 37,400	39,900 * 38,500 * 37,600 * 36,400 * 35,400 * 34,300
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 70.3 68.5 66.7 64.9 63.0 61.2 59.3 55.3 55.3 51.2 49.0	## Company	92,400 82,800 75,000 68,500 63,000 54,200 50,600 47,400 44,600 42,100 39,800 37,700 35,900	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 35,100	53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 55.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 71.2 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5	## Company	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500 31,500	58,100 * 57,100 * 57,100 * 51,000 47,800 42,400 40,100 38,000 36,200 34,500 30,800	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700 36,200 34,800 33,600 30,000	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 34.0 34.0 44.0 44.0 46.0 48.0 55.0 60.0	900  Boom Angle (deg.) 81.9 81.3 80.7 78.7 77.4 76.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7	## Degree Machine List   125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 * 89,100 * 66,600 * 61,600 * 57,300 * 53,100 * 49,300 * 46,500 * 43,700 * 40,900 * 38,900 * 36,900 * 32,500 * 29,000 * 100,	73,000 * 60° Ratece 1 Degree Machine List  73,000 * 66,900 61,600 56,900 56,900 49,500 46,300 43,600 41,100 38,900 36,900 35,100 31,200 28,100	50,600 * 49,600 * 47,000 44,200 41,700 39,500 37,400 35,600 30,300 27,400	39,900 * 38,500 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 29,200 26,600
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 55.3 51.2 49.0 43.2	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,000 58,300 54,200 50,600 47,400 44,600 42,100 39,800 37,700 35,900 32,000	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400	53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 30.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 71.2 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7	## Open Company	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500 31,500 28,300	58,100 * 57,100 * 57,100 * 51,000 47,800 42,400 40,100 38,000 36,200 34,500 30,800 27,700	25)  2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 37,700 36,200 34,800 33,600 30,000 27,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 33.0 34.0 34.0 44.0 46.0 48.0 55.0 60.0 65.0	900  Boom Angle (deg.) 81.9 81.3 80.7 78.7 77.4 76.1 74.8 73.5 72.1 70.8 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4	## Degree Machine List   125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 * 89,100 * 80,500 * 66,600 * 61,600 * 57,300 * 53,100 * 49,300 * 46,500 * 43,700 * 40,900 * 38,900 * 36,900 * 32,500 * 29,000 * 26,100 * 100,00	73,000 * 60° Ratece 1 Degree Machine List  73,000 * 66,900 61,600 56,900 53,000 49,500 46,300 43,600 41,100 38,900 36,900 31,200 28,100 25,400	50,600 * 49,600 * 47,000 * 44,200 * 41,700 * 39,500 * 37,400 * 35,600 * 30,300 * 27,400 * 24,800 *	39,900 * 38,500 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 29,200 26,600 24,200
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 30.0 33.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	## Property of the content of the co	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,000 58,300 54,200 50,600 47,400 44,600 42,100 39,800 37,700 35,900 32,000 28,800	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400 28,400	53,600 * 51,800 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 24.0 26.0 30.0 33.0 34.0 36.0 38.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7 40.4	## Open Company	81,800 74,100 67,700 62,200 57,500 53,500 46,800 44,100 41,600 39,300 37,300 35,500 31,500 28,300 25,700	58,100 * 57,100 * 57,100 * 57,100 * 57,100 * 51,000 * 51,	25)  2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700 36,200 34,800 33,600 30,000 27,200 24,800	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 32.0 34.0 34.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0	## Page 12	## Company	73,000 * 60° Ratec  1 Degree Machine List  73,000 * 66,900 61,600 56,900 49,500 46,300 41,100 38,900 36,900 31,200 28,100 25,400 23,100	50,600 * 49,600 * 47,000 * 44,200 * 41,700 * 39,500 * 37,400 * 35,600 * 30,300 * 27,400 * 24,800 * 22,700	39,900 * 38,500 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 20,200 24,200 22,200
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 75.4 73.7 70.3 68.5 66.7 64.9 63.0 61.2 59.3 57.3 55.3 51.2 49.0 43.2	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,000 58,300 54,200 50,600 47,400 44,600 42,100 39,800 37,700 35,900 32,000	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400	53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 30.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 71.2 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7	## Open Company	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500 31,500 28,300	58,100 * 57,100 * 57,100 * 51,000 47,800 42,400 40,100 38,000 36,200 34,500 30,800 27,700	25)  2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 37,700 36,200 34,800 33,600 30,000 27,200	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 33.0 34.0 34.0 44.0 46.0 48.0 55.0 60.0 65.0	900  Boom Angle (deg.) 81.9 81.3 80.7 78.7 77.4 76.1 74.8 73.5 72.1 70.8 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4	## Degree Machine List   125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 * 89,100 * 80,500 * 66,600 * 61,600 * 57,300 * 53,100 * 49,300 * 46,500 * 43,700 * 40,900 * 38,900 * 36,900 * 32,500 * 29,000 * 26,100 * 100,00	73,000 * 60° Ratece 1 Degree Machine List  73,000 * 66,900 61,600 56,900 53,000 49,500 46,300 43,600 41,100 38,900 36,900 31,200 28,100 25,400	50,600 * 49,600 * 47,000 * 44,200 * 41,700 * 39,500 * 37,400 * 35,600 * 30,300 * 27,400 * 24,800 *	39,900 * 38,500 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 36,400 * 29,200 26,600 24,200
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 30.0 33.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	## Property of the content of the co	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,000 58,300 54,200 50,600 47,400 44,600 42,100 39,800 37,700 35,900 32,000 28,800	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400 28,400	53,600 * 51,800 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Load Radius (ft) 16.00 17.00 18.00 19.00 22.00 24.00 28.00 30.00 34.00 34.00 34.00 44.00 44.00 45.00 55.00 66.00 65.00 70.00	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7 40.4 34.3	## Degree Machine List	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500 28,300 25,700 23,400	58,100 * 57,100 * 57,100 * 57,100 * 57,100 * 51,000 * 51,	25)  2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700 36,200 34,800 33,600 30,000 27,200 24,800 22,800	Load Radius (t) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 34.0 34.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0	## Page 12	## Company	73,000 * 60° Ratec  1 Degree Machine List  73,000 * 66,900 61,600 56,900 56,900 49,500 46,300 41,100 38,900 36,900 35,100 31,200 28,100 25,400 23,100 21,200	50,600 * 49,600 * 49,000 * 47,000 41,700 39,500 37,400 35,600 34,000 30,300 27,400 24,800 22,700 20,800	39,900 * 38,500 * 37,600 * 36,400 * 34,300 33,200 29,200 26,600 24,200 22,200 20,500
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 30.0 33.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	## Property of the content of the co	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,000 58,300 54,200 50,600 47,400 44,600 42,100 39,800 37,700 35,900 32,000 28,800	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700 45,700 43,100 40,800 38,700 36,700 31,400 28,400	53,600 * 51,800 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Load Radius (ft) 16.00 17.00 18.00 19.00 22.00 24.00 28.00 30.00 34.00 34.00 34.00 44.00 44.00 45.00 55.00 66.00 65.00 70.00	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7 40.4 34.3	## Degree Machine List	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500 28,300 25,700 23,400	58,100 * 57,100 * 57,100 * 57,100 * 57,100 * 57,100 * 51,000 * 51,000 * 42,400 * 40,100 * 38,000 * 36,200 * 30,800 * 27,700 * 25,300 * 23,100 *	25)  2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700 36,200 34,800 33,600 30,000 27,200 24,800 22,800	Load Radius (ft) 17.00 18.00 19.00 22.00 22.00 22.00 33.00 34.00 34.00 44.00 44.00 48.00 55.00 65.00 75.00 80.00	Boom Angle (deg.) 81.9 81.9 81.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 55.7 51.7 47.4 42.9 37.9 32.2	## Company	73,000 * 66,900 61,600 56,900 49,500 43,600 41,100 38,900 35,100 31,200 28,100 25,400 23,100 21,200 19,600	50,600 * 49,600 * 44,200 * 41,700 39,500 37,400 24,800 22,700 20,800 19,300	39,900 * 38,500 * 36,400 * 35,400 * 34,300 32,000 29,200 26,600 24,200 20,500 19,100

Barge

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

	100	)' Booi	m				110	)' Boo	m				120	)' Boo	m		
				d Load (lk	) ()				60° Rated	l Load (It	ns)				60° Rated	d Load (It	ns)
Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree
Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List
19.0	81.6	125,600 *				20.0	81.8	100,800 *				22.0	81.6	98,700 *			
20.0	81.0	123,600 *				22.0	80.8	100,800 *				24.0	80.6	94,200 *			
22.0	79.9	112,200 *				24.0	79.7	96,500 *				26.0	79.6	88,000 *			
24.0 26.0	78.7 77.5	100,600 88,900				26.0 28.0	78.6 77.6	88,500 * 80,200				28.0 30.0	78.6 77.7	79,900 72,200			
28.0	76.3	80,200				30.0	76.5	72,400				32.0	76.7	66,100			
30.0	75.1	72,400				32.0	75.4	66,300				34.0	75.7	61,100	53,000 *		
32.0	74.0	66,300	60,800			34.0	74.3	61,300	55,900 *			36.0	74.7	56,800	51,300		
34.0	72.8	61,300	56,300	42 500 *		36.0	73.2	57,000	51,900			38.0	73.7	52,500	47,900	22.000.*	
36.0 38.0	71.6 70.3	57,000 52,700	52,300 48,900	43,500 * 42,900 *		38.0 40.0	72.2 71.1	52,700 48,900	48,600 45,500	37,900 *		40.0 42.0	72.7 71.7	48,700 45,800	45,000 42,200	33,900 * 33,400 *	
40.0	69.1	48,900	45,800	42,400 *	34,800 *	42.0	70.0	46,200	42,900	37,500 *		44.0	70.7	43,000	39,800	33,000 *	
42.0	67.9	46,200	43,100	40,900 *	33,500 *	44.0	68.9	43,400	40,400	37,000 *	28,900 *	46.0	69.7	40,200	37,600	32,800 *	
44.0	66.6	43,400	40,700	38,800	32,500 *	46.0	67.8	40,700	38,200	36,200 *	28,600 *	48.0	68.6	38,300	35,600	32,300 *	
46.0	65.4	40,700	38,500	36,800	31,700 *	48.0	66.6	38,700	36,300	34,600	28,200 *	50.0	67.6	36,300	34,000	31,700 *	24,800 *
48.0 50.0	64.1 62.8	38,700	36,500 34,700	35,000	30,900 * 30,000 *	50.0 55.0	65.4 62.5	36,600	34,500 30,500	32,900 29,400	27,900 * 27,200 *	55.0 60.0	65.0 62.3	32,000 28,300	30,200	28,900	24,300 * 23,600 *
55.0	59.5	36,600 32,300	30,800	33,400 29,700	27,800 *	60.0	59.5	32,300 28,700	27,400	26,400	25,500	65.0	59.6	25,400	27,100 24,400	26,000 23,500	22,700
60.0	56.1	28,700	27,500	26,700	25,500	65.0	56.5	25,900	24,700	23,900	23,100	70.0	56.8	23,200	22,200	21,400	20,800
65.0	52.5	25,900	24,900	24,300	23,600	70.0	53.2	23,500	22,500	21,800	21,200	75.0	53.8	21,200	20,300	19,700	19,100
70.0	48.8	23,500	22,700	22,100	21,500	75.0	49.9	21,400	20,600	20,000	19,500	80.0	50.8	19,400	18,600	18,100	17,600
75.0	44.8	21,400	20,700	20,300	20,000	80.0	46.4	19,600	19,000	18,600	18,200	85.0	47.7	17,700	17,200	16,700	16,300
80.0 85.0	40.5 36.0	19,600 18,100	19,200 17,700	18,800 17,500	18,500 17,200	85.0 90.0	42.6 38.6	18,100 16,800	17,700 16,400	17,300 16,100	17,000 15,700	90.0 95.0	44.3 40.7	16,500 15,300	15,900 14,800	15,600 14,500	15,300 14,300
90.0	30.5	16,900	16,500	16,300	16,100	95.0	34.1	15,600	15,200	15,000	14,800	100.0	36.9	14,200	13,800	13,600	13,400
95.0	24.0	15,800	15,400	15,300	15,100	100.0	29.1	14,600	14,300	14,200	14,000	110.0	27.8	12,600	12,200	12,000	11,900
						105.0	23.2	13,770	13,500	13,300		115.0	22.2	11,840	11,500		
Ree	ves	5	4	2	2	Rec	eves	4	4	2	2	Rec	eves	4	4	2	2
	130	)' Booi	m				140	)' Boo	m				150	)' Boo	m		
		30	60° Rated	t Load (It	1			2	000 D (		,				000 D /		
Load	_			LOGG (IL	)S)			3	60° Hated	l Load (lk	os)			3	60° Kated	d Load (lk	os)
Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	I Load (II) 2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
Radius (ft) 24.0	Angle (deg.) 81.3	Machine List 85,100 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0	Angle (deg.) 81.9	O Degree Machine List 72,900 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0	Angle (deg.) 81.7	O Degree Machine List 62,200 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0	Angle (deg.) 81.3 80.4	Machine List 85,100 * 83,900 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0	Angle (deg.) 81.9 81.1	0 Degree Machine List 72,900 * 71,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0	Angle (deg.) 81.7 80.9	0 Degree Machine List 62,200 * 61,300 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0	Angle (deg.) 81.3 80.4 79.5	Machine List 85,100 * 83,900 * 78,200 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0	Angle (deg.) 81.9 81.1 80.3	0 Degree Machine List 72,900 * 71,800 * 70,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0	Angle (deg.) 81.7 80.9 80.1	0 Degree Machine List 62,200 * 61,300 * 60,400 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0	Angle (deg.) 81.3 80.4	Machine List  85,100 * 83,900 * 78,200 * 71,900	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 24.0 26.0	Angle (deg.) 81.9 81.1	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0	Angle (deg.) 81.7 80.9	0 Degree Machine List 62,200 * 61,300 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0	81.3 80.4 79.5 78.6	Machine List 85,100 * 83,900 * 78,200 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0	Angle (deg.) 81.9 81.1 80.3 79.4	0 Degree Machine List 72,900 * 71,800 * 70,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0	81.7 80.9 80.1 79.4	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft)  24.0  26.0  28.0  30.0  32.0  34.0  36.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0	81.7 80.9 80.1 79.4 78.6 77.8	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 *	1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300	1 Degree Machine List 46,400 *	2 Degree Machine	2 Degree Machine	Radius (ft)  24.0  26.0  28.0  30.0  32.0  34.0  36.0  38.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9	72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 52,000	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000	1 Degree Machine List	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400	1 Degree Machine List 46,400 * 44,500	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 55,200 48,200	1 Degree Machine List 41,500 *	2 Degree Machine	2 Degree Machine	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200	1 Degree Machine List  37,100 *	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	81.3 80.4 79.5 78.6 77.7 76.9 75.9	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300	1 Degree Machine List 46,400 *	2 Degree Machine	2 Degree Machine	Radius (ft)  24.0  26.0  28.0  30.0  32.0  34.0  36.0  38.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9	72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 52,000	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000	1 Degree Machine List	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	Angle (deg.)  81.3  80.4  79.5  78.6  77.7  76.9  75.9  75.0  74.1  73.2	Machine List  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600	1 Degree Machine List 46,400 * 44,500 41,700	2 Degree Machine List	2 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4	72,900 * 71,800 * 70,800 * 69,000 * 60,500 52,000 48,200 45,400	1 Degree Machine List 41,500 * 40,600 *	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400	1 Degree Machine List 37,100 * 36,600 *	2 Degree Machine	2 Degree Machine
Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000	1 Degree Mechine List  46,400 * 44,500 41,700 39,400 37,200 35,300	2 Degree Machine List  29,700 * 29,400 * 29,400 * 29,100 *	2 Degree Machine	Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 55,000 48,200 45,400 42,600 39,800 37,800	1 Degree Machine List  41,500 * 40,600 * 38,900 36,800 34,900	2 Degree Machine	2 Degree Machine	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 44.0 46.0 48.0 50.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 57,200 * 57,200 * 51,000 * 48,000 45,200 42,400 39,600 37,500 35,500	37,100 * 36,600 * 35,800 * 34,500 32,800	2 Degree Machine List	2 Degree Machine
Redius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 36,000	1 Degree Mechine List  46,400 * 44,500 41,700 39,400 37,200 35,300 33,600	2 Degree Machine List  29,700 * 29,400 * 29,100 * 29,100 * 28,700 *	2 Degree Machine List	Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 71.0	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 52,000 48,200 42,600 39,800 37,800 35,800	1 Degree Machine List  41,500 * 40,600 * 38,900 36,800 34,900 33,200	2 Degree Machine List	2 Degree Machine List	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 50.0 55.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 45,200 42,400 39,600 37,500 35,500 31,200	37,100 * 36,600 * 35,800 * 34,500 32,800 29,000	2 Degree Machine List  23,300 * 22,700 *	2 Degree Machine List
Redius (ft)  24.0  26.0  28.0  30.0  32.0  34.0  36.0  40.0  44.0  46.0  48.0  50.0  55.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600	1 Degree Machine List  46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700	29,700 * 29,400 * 29,100 * 29,100 * 29,700 * 29,400 * 29,100 * 27,900 *	2 Degree Machine List	Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 50.0 55.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 71.0 68.8	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 48,200 42,600 39,800 37,800 35,800 31,400	1 Degree Machine List  41,500 * 40,600 * 38,900 36,800 34,900 33,200 29,400	2 Degree Machine List	2 Degree Machine List	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0	81.7 80.9 80.1 79.4 78.6 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200 42,400 39,600 37,500 31,200 27,600	37,100 * 36,600 * 35,800 * 34,500 32,800 29,000 25,800	2 Degree Machine List  23,300 * 22,700 * 22,000 *	2 Degree Machine List
Redius (ft)  24.0  26.0  28.0  30.0  32.0  34.0  36.0  40.0  44.0  46.0  48.0  50.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100	1.Degree Machine List  46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600	29,700 * 29,400 * 29,100 * 28,700 * 27,900 * 25,500	2 Degree Machine List  21,700 * 21,200 *	Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0	81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 71.0	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 48,200 42,600 39,800 37,800 35,800 31,400 27,800	11.500 * 41,500 * 40,600 * 38,900 34,900 33,200 29,400 26,200	2 Degree Machine List  25,100 * 24,500 *	2 Degree Machine List  19,200 * 18,700 *	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0 50.0 55.0	81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 57,200 * 54,100 * 51,000 * 48,000 37,500 35,500 31,200 27,600 24,800	37,100 * 36,600 * 35,800 * 34,500 32,800 29,000 25,800 23,300	2 Degree Machine List  23,300 * 22,700 * 22,000 * 21,600 *	2 Degree Machine List  16,800 * 16,500 *
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600	1 Degree Machine List  46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700	29,700 * 29,400 * 29,100 * 29,100 * 29,700 * 29,400 * 29,100 * 27,900 *	2 Degree Machine List	Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 55.0 60.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 71.0 68.8 66.6	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 56,200 48,200 42,600 39,800 37,800 35,800 31,400	1 Degree Machine List  41,500 * 40,600 * 38,900 36,800 34,900 33,200 29,400	2 Degree Machine List	2 Degree Machine List	Radius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 50.0 55.0 60.0 65.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 45,200 42,400 39,600 37,500 31,200 27,600	37,100 * 36,600 * 35,800 * 34,500 32,800 29,000 25,800	2 Degree Machine List  23,300 * 22,700 * 22,000 *	2 Degree Machine List
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 56,600 52,300 48,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900	1.Degree Machine List  46,400 * 44,500 41,700 39,400 35,300 29,700 26,600 24,100 21,900 20,000	29,700 * 29,400 * 29,100 * 29,100 * 28,700 * 27,900 * 21,100 19,300	21,700 * 21,200 * 20,700 * 20,000 * 18,700	Redius (ft)  24.0 26.0 28.0 30.0 34.0 34.0 36.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 75.2 74.4 73.5 72.7 71.8 68.8 66.6 64.3 62.0 59.7	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 52,000 48,200 45,400 42,600 39,800 31,400 27,800 25,000 22,600 20,500	11. Degree Machine List  41,500 * 40,600 * 38,900 34,900 33,200 29,400 26,200 23,500 21,300 19,500	2 Degree Machine List  25,100 * 24,500 * 22,400 * 20,500 18,700	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 17,900 * 17,400 *	Redius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9 59.6	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 37,500 31,200 27,600 24,800 22,400 20,300 18,500	37,100 * 36,600 * 34,500 * 32,800 * 29,000 25,800 21,100 19,200 17,600	23,300 * 22,700 * 22,000 * 21,600 * 20,100 * 18,300 17,000	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 15,400 *
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 65,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000	1.Degree Machine List  46,400 * 44,500 41,700 39,400 35,300 29,700 26,600 24,100 21,900 20,000 18,300	29,700 * 29,400 * 29,100 * 29,100 * 29,100 * 21,100 * 21,100 19,300 17,700	21,700 * 21,200 * 20,700 * 20,000 * 18,700 17,200	Redius (ft)  24.0 26.0 28.0 30.0 34.0 34.0 36.0 44.0 44.0 45.0 55.0 60.0 65.0 77.0 80.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 68.8 66.6 64.3 62.0 59.7 57.3	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 52,000 45,400 42,600 37,800 31,400 27,800 22,600 20,500 18,700	11. Degree Machine List  41,500 * 40,600 * 38,900 34,900 33,200 29,400 26,200 23,500 21,300 19,500 17,800	2 Degree Machine List  25,100 * 24,500 * 22,400 * 20,500 18,700 17,200	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 17,400 * 16,600	Redius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9 59.6 57.4	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 37,500 31,200 27,600 24,800 22,400 20,300 18,500 17,000	37,100 * 36,600 * 34,500 * 32,800 * 29,000 25,800 21,100 19,200 17,600 16,200	23,300 * 22,700 * 22,000 * 21,600 * 20,100 * 18,300 17,000 15,500	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 15,400 * 14,900 *
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 56,600 52,300 44,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000 17,500	1 Degree Machine List  46,400 * 44,500 41,700 39,400 35,300 29,700 26,600 24,100 21,900 20,000 18,300 16,900	29,700 * 29,400 * 29,100 * 29,100 * 28,700 * 27,900 * 21,100 19,300 17,700 16,400	21,700 * 21,200 * 21,200 * 20,700 * 20,700 * 20,700 * 18,700 17,200 16,000	Padius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 71.8 71.0 68.8 66.6 64.3 62.0 59.7 57.3 54.8	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 52,000 45,400 42,600 37,800 31,400 27,800 22,600 20,500 18,700 17,200	11. Degree Machine List  41,500 * 40,600 * 38,900 34,900 33,200 29,400 26,200 21,300 19,500 17,800 16,400	2 Degree Machine List  25,100 * 24,500 * 22,400 * 20,500 18,700 17,200 15,800	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 16,600 15,400	Redius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 45.0 65.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 76.3 76.3 76.3 70.3 68.2 66.2 64.0 61.9 59.6 57.4 55.2	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 37,500 31,200 27,600 24,800 22,400 20,300 18,500 17,000 15,700	37,100 * 36,600 * 34,500 * 32,800 * 29,000 25,800 21,100 19,200 17,600 16,200 14,900	23,300 * 22,700 * 22,000 * 21,600 * 20,100 * 18,300 17,000 15,500 14,400	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 15,400 * 14,900 * 14,000
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	Machine List 85,100 * 78,200 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 38,000 31,6000 28,100 22,900 20,900 19,000 17,500 16,100	1 Degree Machine List  46,400 * 44,500 41,700 39,400 35,300 29,700 26,600 24,100 21,900 20,000 18,300 16,900 15,700	29,700 * 29,400 * 29,100 * 25,500 23,100 21,100 19,300 17,700 16,400 15,300	21,700 * 21,200 * 20,700 * 20,700 * 20,700 * 18,700 17,200 14,900	Redius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 71.8 71.0 68.8 66.6 64.3 62.0 59.7 57.3 54.8 52.2	72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 \$ 52,000 \$ 48,200 \$ 45,400 \$ 42,600 \$ 37,800 \$ 31,400 \$ 27,800 \$ 22,600 \$ 20,500 \$ 18,700 \$ 17,200 \$ 15,900	11. Degree Machine List  41,500 * 40,600 * 38,900 36,800 34,900 29,400 26,200 21,300 19,500 17,800 16,400 15,200	2 Degree Machine List  25,100 * 24,500 * 22,400 * 20,500 18,700 17,200 15,800 14,700	19,200 * 18,700 * 17,900 * 16,600 15,400 14,300 * 17,900 * 17,400 * 18,900 * 17,400 * 18,900	Redius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9 59.6 57.4	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 39,600 37,500 31,200 27,600 24,800 22,400 20,300 18,500 17,000 15,700 14,400	37,100 * 36,600 * 34,500 32,800 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800	23,300 * 22,700 * 22,000 * 21,600 * 20,100 * 18,300 17,000 15,500 14,400 13,300	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 15,400 * 14,900 * 14,000 13,000
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 74.1 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7	Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 56,600 52,300 44,400 42,800 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000 17,500	1 Degree Machine List  46,400 * 44,500 41,700 39,400 35,300 29,700 26,600 24,100 21,900 20,000 18,300 16,900	29,700 * 29,400 * 29,100 * 29,100 * 28,700 * 27,900 * 21,100 19,300 17,700 16,400	21,700 * 21,200 * 21,200 * 20,700 * 20,700 * 20,700 * 18,700 17,200 16,000	Padius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 71.8 71.0 68.8 66.6 64.3 62.0 59.7 57.3 54.8	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 52,000 45,400 42,600 37,800 31,400 27,800 22,600 20,500 18,700 17,200	11. Degree Machine List  41,500 * 40,600 * 38,900 34,900 33,200 29,400 26,200 21,300 19,500 17,800 16,400	2 Degree Machine List  25,100 * 24,500 * 22,400 * 20,500 18,700 17,200 15,800	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 16,600 15,400	Redity (ft)  26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 44.0 50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 95.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 76.3 76.3 76.3 76.3 70.3 68.2 66.2 64.0 61.9 59.6 57.4 55.2 52.8	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 37,500 31,200 27,600 24,800 22,400 20,300 18,500 17,000 15,700	37,100 * 36,600 * 34,500 * 32,800 * 29,000 25,800 21,100 19,200 17,600 16,200 14,900	23,300 * 22,700 * 22,000 * 21,600 * 20,100 * 18,300 17,000 15,500 14,400	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 15,400 * 14,900 * 14,000
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 80.0 90.0 95.0 100.0 110.0	Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 51.6 48.7 45.6	Machine List 85,100 * 85,100 * 78,200 * 71,900 65,900 60,900 52,300 48,400 45,600 42,800 40,000 38,000 31,600 22,900 22,900 19,000 17,500 16,100 15,000	1 Degree Machine List  46,400 * 44,500 41,700 39,400 35,300 29,700 26,600 24,100 21,900 20,000 18,300 16,900 15,700 14,600	29,700 * 29,400 * 29,100 * 29,100 * 29,100 * 21,100 19,300 17,700 16,400 15,300 14,200	21,700 * 21,200 * 20,700 * 20,700 * 20,700 * 18,700 17,200 14,900 13,900	Redity (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 95.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0 59.7 57.3 54.8 52.2 49.5	72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 \$ 52,000 \$ 48,200 \$ 45,400 \$ 42,600 \$ 37,800 \$ 31,400 \$ 27,800 \$ 22,600 \$ 20,500 \$ 18,700 \$ 17,200 \$ 15,900 \$ 14,600	11.500 * 41,500 * 40,600 * 38,900 36,800 29,400 26,200 21,300 19,500 17,800 16,400 15,200 14,100	2 Degree Machine List  25,100 * 24,500 * 22,400 * 20,500 18,700 17,200 15,800 14,700 13,700	19,200 * 18,700 * 17,900 * 16,600 15,400 14,300 13,300	Redity (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 88.0 99.0 95.0 100.0	Angle (deg.) 81.7 80.9 80.1 79.4 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.2 64.0 61.9 57.4 55.2 52.8 50.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 42,400 39,600 37,500 31,200 27,600 24,800 22,400 20,300 18,500 17,000 15,700 14,400 13,400	37,100 * 36,600 * 35,800 * 34,500 29,000 21,100 19,200 14,900 13,800 12,800	23,300 * 22,700 * 22,000 * 20,100 * 18,300 15,500 14,400 13,300 12,500	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 11,4000 * 14,000 12,100 10,700 9,400
Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 80.0 90.0 95.0 100.0 110.0 120.0	Angle (deg.) 81.3 80.4 79.5 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 54.3 51.6 48.7 45.6 42.4 35.4 26.6	Machine List 85,100 * 85,100 * 78,200 * 71,900 66,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 22,900 20,900 19,000 17,500 16,100 15,000 14,000 12,100 10,800	1.Degree Machine List  46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 21,900 18,300 16,900 15,700 14,600 13,600 11,900 10,600	29,700 * 29,400 * 29,100 * 29,700 * 29,100 * 21,100 19,300 11,700 16,400 15,300 14,200 13,300	21,700 * 21,200 * 20,700 * 18,700 11,900 13,900 13,000	Reditive (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 85.0 99.0 995.0 110.0 1120.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0 59.7 57.3 54.8 52.2 49.5 46.8 40.8 34.0	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 52,000 48,200 45,400 42,600 39,800 37,800 35,800 31,400 27,800 22,600 20,500 18,700 15,900 14,600 13,600 11,900 10,300	11.500 * 41,500 * 40,600 * 38,900 36,800 34,900 29,400 26,200 21,300 19,500 17,800 16,400 15,200 14,100 13,100 11,400 10,100	25,100 * 24,500 * 22,400 * 20,500 11,200 11,200 9,900	19,200 * 18,700 * 18,300 * 17,400 * 16,600 13,300 12,500 11,000 9,800	Redity (ft)  26.0 28.0 30.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 110.0 130.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.0 61.9 65.6 55.2 52.8 50.3 45.1 39.3 32.8	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 48,000 42,400 39,600 37,500 31,200 27,600 24,800 22,400 20,300 18,500 17,000 15,700 14,400 13,400 11,700 10,300 8,900	37,100 * 36,600 * 36,600 * 35,800 * 34,500 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800 12,800 11,200 9,900 8,800	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 14,400 13,300 12,500 10,900 9,600 8,600	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 14,900 * 14,000 12,100 10,700 9,400 8,400
Redius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 80.0 90.0 95.0 100.0 110.0	Angle (deg.) 81.3 80.4 79.5 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 59.6 54.3 51.6 48.7 45.6 42.4 35.4	Machine List 85,100 * 85,100 * 78,200 * 71,900 65,900 60,900 55,600 42,800 40,000 38,000 31,600 22,900 22,900 17,500 16,100 15,000 14,000 12,100	1.Degree Machine List  46,400 * 44,500 41,700 39,400 37,200 25,600 24,100 20,000 118,300 15,700 14,600 13,600 11,900	29,700 * 29,400 * 29,100 * 29,700 * 29,100 * 21,100 11,700 16,400 15,300 14,200 13,300 11,700	21,700 * 21,200 * 20,700 * 13,900 13,000 11,600	Reditive (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 88.0 99.0 995.0 110.0	Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 72.7 71.8 66.6 64.3 62.0 59.7 57.3 54.8 52.2 49.5 46.8 40.8	0 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600 39,800 37,800 31,400 27,800 22,600 20,500 18,700 15,900 14,600 13,600 11,900	1.500 * 41,500 * 40,600 * 38,900 36,800 29,400 26,200 23,500 117,800 16,400 15,200 14,100 13,100 11,400	2.5,100 * 24,500 * 22,400 * 20,500 11,200 11,200 11,200	19,200 * 18,700 * 18,300 * 17,400 * 16,600 13,300 12,500 11,000	Redity (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 99.0 99.0 110.0 1120.0	Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9 73.1 72.3 70.3 68.2 66.0 61.9 65.6 55.2 52.8 50.3 45.1 39.3	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 42,400 39,600 37,500 31,200 27,600 24,400 20,300 18,500 15,700 14,400 13,400 11,700 10,300	37,100 * 36,600 * 36,600 * 35,800 * 34,500 32,800 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800 12,800 11,200 9,900	23,300 * 22,700 * 22,000 * 20,100 * 18,300 12,500 14,400 13,300 12,500 9,600	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 14,900 * 14,000 12,100 10,700 9,400

## Barge

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

	160	)' Boo	m				170	)' Boo	m				180	)' Boo	m		
	360° Rated Load (lbs)								I Load (Ibs)				360° Rated Load (lbs)				
Load	Boom	0 Degree	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree Machine	1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft)	Angle (deg.)		Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Radius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List
28.0	81.5	50,200 *				30.0	81.3	44,500 *				30.0	81.8	39,300 *			
30.0	80.8	50,100 *				32.0	80.7	43,900 *				32.0	81.2	38,800 *			
32.0	80.1	49,700 *				34.0	80.0	43,200 *				34.0	80.5	38,200 *			
34.0 36.0	79.4 78.6	49,200 * 48,500 *				36.0 38.0	79.3 78.6	42,500 * 41,900 *				36.0 38.0	79.9 79.2	37,600 * 37,000 *			
38.0	77.9	47,800 *				40.0	77.9	41,200 *				40.0	78.6	36,400 *			
40.0	77.2	46,600 *				42.0	77.2	40,600 *				42.0	77.9	35,800 *			
42.0	76.4	44,300 *				44.0	76.5	40,000 *				44.0	77.2	35,100 *			
44.0	75.6	42,100 *	32,200 *			46.0	75.8	39,300 *	20.400 *			46.0	76.6	34,500 *			
46.0 48.0	74.9 74.1	39,800 37,800	31,700 * 31,300 *			48.0 50.0	75.1 74.4	37,400 * 35,400 *	28,400 * 28,100 *			48.0 50.0	75.9 75.3	33,900 * 33,300 *			
50.0	73.4	35,800	31,000 *			55.0	72.6	31,200	27,100*	17,700 *		55.0	73.7	30,800 *	24,200*		
55.0	71.5	31,400	28,900*	20,000 *		60.0	70.9	27,600	25,400 *	17,300 *		60.0	72.0	27,400	22,900*	15,300 *	
60.0	69.6	27,800	26,000	19,300 *		65.0	69.1	24,600	23,000	16,900 *		65.0	70.3	24,400	21,800 *	15,100 *	
65.0	67.7	25,000	23,400	18,900 *	14,400 *	70.0	67.3	22,300	20,900	16,400 *	12,400 *	70.0 75.0	68.6	21,900	20,400*	14,600 *	10,800 *
70.0 75.0	65.8 63.8	22,600 20,500	21,200 19,300	18,500 * 18,000 *	14,000 * 13,700 *	75.0 80.0	65.4 63.5	20,300 18,500	19,000 17,400	16,000 * 15,600 *	12,200 * 11,800 *	80.0	66.9 65.2	19,900 18,100	18,700 17,100	14,200 * 13,800 *	10,600 * 10,400 *
80.0	61.8	18,700	17,700	16,900	13,400 *	85.0	61.6	16,800	16,000	15,300 *	11,500 *	85.0	63.4	16,600	15,700	13,500 *	10,000 *
85.0	59.7	17,000	16,300	15,600	13,100*	90.0	59.7	15,400	14,700	14,000	11,300 *	90.0	61.6	15,200	14,400	12,900 *	9,700 *
90.0	57.6	15,700	15,000	14,300	12,800 *	95.0	57.8	14,300	13,600	13,200	11,100 *	95.0	59.8	14,000	13,200	12,200 *	9,500 *
95.0 100.0	55.4 53.2	14,500 13,500	13,900 12,900	13,500 12,400	12,400 * 12,000	100.0	55.8 51.5	13,300 11,500	12,600 10,900	12,100 10,600	10,800 * 10,100 *	100.0	57.9 54.0	12,900 11,100	12,300 10,600	11,600 * 10,300	9,300 * 8,500 *
110.0	48.6	11,700	11,100	10,900	10,600	120.0	47.0	9,800	9,600	9,300	9,000	120.0	49.9	9,600	9,100	8,800	7,700 *
120.0	43.6	10,100	9,800	9,600	9,300	130.0	42.2	8,700	8,400	8,200	8,000	130.0	45.6	8,500	8,000	7,700	6,900 *
130.0	38.1	8,900	8,600	8,500	8,300	140.0	36.8	7,700	7,300	7,100	7,000	140.0	40.9	7,400	7,000	6,900	6,000 *
140.0	31.6	7,900	7,800	7,600	7,500	150.0	30.5	6,800	6,500	6,400	6,200 *	150.0	35.7	6,500	6,200	6,000	5,000 *
150.0	23.7	7,100	6,900	6,800	6,700	160.0	23.2	5,900	5,800 *	5,800 *	5,100 *	160.0 165.0	29.7 26.5	5,600 5,100	5,400 5,100	5,000 * 4,400 *	4,200 * 3,600 *
Rec	eves	2	2	2	2	Rec	eves	2	2	2	2		eves	2	2	2	2
	190	)' Boo	m				200	)' Boo	m								
		3		d Load (III	os)				60° Rated	l Load (Il	os)						
Load	Boom	0 Degree	60° Rateo	2 Degree	2 Degree	Load	Boom	3 0 Degree	60° Rated	2 Degree	2 Degree						
Load Radius (ft)	Boom Angle (deg.)		60° Rated			Load Radius (ft)		3	60° Rated								
Radius (ft) 32.0	Angle (deg.) 81.6	O Degree Machine List 34,400 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0	Boom Angle (deg.) 81.5	O Degree Machine List 30,300 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0	Angle (deg.) 81.6 81.0	0 Degree Machine List 34,400 * 33,800 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0	Boom Angle (deg.) 81.5 80.9	3 0 Degree Machine List 30,300 * 29,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0	Angle (deg.) 81.6 81.0 80.4	0 Degree Machine List 34,400 * 33,800 * 33,300 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0	Boom Angle (deg.) 81.5 80.9 80.3	3 0 Degree Machine List 30,300 * 29,700 * 29,200 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0	Angle (deg.) 81.6 81.0	0 Degree Machine List 34,400 * 33,800 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0	Boom Angle (deg.) 81.5 80.9	3 0 Degree Machine List 30,300 * 29,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
32.0 34.0 36.0 38.0 40.0 42.0	81.6 81.0 80.4 79.8 79.2 78.6	O Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0	O Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0	30 Degree Mechine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 27,300 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4	0 Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft)  34.0  36.0  38.0  40.0  42.0  44.0  46.0  48.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 * 26,800 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0	O Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0	30 Degree Mechine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 27,300 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 *	1 Degree Machine List	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8	30,300 ** 29,700 ** 29,200 ** 28,700 ** 28,200 ** 27,700 ** 27,300 ** 26,800 ** 26,300 ** 24,900 ** 23,200 **	60° Rateo 1 Degree Machine	2 Degree Machine List	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 *	60° Pated Machine List   21,700 * 20,600 *	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,300 * 26,300 * 24,900 * 23,200 * 21,500 *	60° Patec 1 Degree Machine List 18,200 * 17,100 *	2 Degree Machine List	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 *	1 Degree Machine List  21,700 * 20,600 * 19,500 *	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 *	10 Partect Machine List 18,200 * 17,100 * 16,100 * 16,100 * 16,100 *	2 Degree Machine List  11,700 * 11,300 *	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 26,200 * 24,000 * 21,800	60° Pated Machine List   21,700 * 20,600 *	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4	30,300 * 29,200 * 28,700 * 28,700 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 *	10 Partect Machine List 18,200 * 17,100 * 16,100 * 15,100	2 Degree Machine List  11,700 * 11,300 * 11,000 *	2 Degree Machine List						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 *	21,700 * 20,600 * 18,400 *	2 Degree Machine List  13,300 * 13,100 *	2 Degree Machine List	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 75.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3	30 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 *	10 Partect Machine List 18,200 * 17,100 * 16,100 * 16,100 * 16,100 *	2 Degree Machine List  11,700 * 11,300 *	2 Degree Machine						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 31,100 * 30,600 * 29,600 * 24,000 * 21,800 19,900 18,000 16,400	21,700 * 20,600 * 11,300 * 16,200 * 15,300 *	2 Degree Machine List  13,300 * 13,100 * 12,700 * 12,400 * 11,900 *	2 Degree Machine List  9,200 * 9,000 * 8,800 *	Radius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 70.9 69.3 67.8 66.2 64.6	30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 26,300 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700	18,200 * 17,100 * 16,100 * 14,100 * 13,300 * 12,400 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 *	2 Degree Machine List 7,700 * 7,500 * 7,200 * 7,200 *						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 24,000 * 24,000 * 21,800 19,900 18,000 16,400 15,000	21,700 * 20,600 * 11,300 * 16,200 * 15,300 * 14,100	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,	9,200 * 9,000 * 8,800 * 8,600 *	Radius (ft)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 75.3 67.8 66.2 64.6 63.0	30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 27,300 * 26,800 * 24,900 * 21,500 * 21,500 * 17,100 * 15,900 * 14,700 13,500	18,200 * 17,100 * 16,100 * 14,100 * 12,400 * 11,700 * 11,700 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 *	7,700 * 7,500 * 7,200 * 7,000						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 95.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 61.5	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 30,100 * 29,600 * 24,000 * 21,800 19,900 18,000 16,400 15,000 13,900	21,700 * 20,600 * 11,300 * 14,100 13,000	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,300 * 11,000 * 10,600 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 *	Radius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 66.2 64.6 63.0 61.4	30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 15,900 * 15,900 * 14,700 13,500 12,400	18,200 * 17,100 * 14,100 * 11,700 * 11,000 * 11,	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 *	7,700 * 7,200 * 7,000 * 7,000 * 6,800 *						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 24,000 * 24,000 * 21,800 19,900 18,000 16,400 15,000	21,700 * 20,600 * 11,300 * 16,200 * 15,300 * 14,100	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,	9,200 * 9,000 * 8,800 * 8,600 *	Radius (ft)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 75.3 67.8 66.2 64.6 63.0	30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 27,300 * 26,800 * 24,900 * 21,500 * 21,500 * 17,100 * 15,900 * 14,700 13,500	18,200 * 17,100 * 16,100 * 14,100 * 12,400 * 11,700 * 11,700 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 *	7,700 * 7,500 * 7,200 * 7,000						
Radius (tt)  32.0 34.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 99.0 110.0 1120.0	Angle (deg.) 81.6 81.0 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 66.9 63.2 61.5 59.7 56.2 52.5	O Degree Machine List  34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 21,800 19,900 115,000 13,900 12,900 11,000 9,400	21,700 * 20,600 * 11,300 * 14,100 13,000 12,000 10,400 9,100	2 Degree Machine List  13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 11,900 * 10,000 * 8,900 * 7,900 * 7,900 *	9,200 * 9,000 * 8,800 * 8,400 * 8,200 * 7,400 * 6,500 *	Radius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 99.0 110.0 1120.0 130.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 66.2 64.6 63.0 61.4 58.1 54.6 51.1	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,800 * 26,300 * 21,500 * 21,500 * 11,7100 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800	18,200 * 17,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 12,400 * 11,700 * 12,400 * 17,000 * 17,	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 8,400 * 7,400 * 6,500 * 5,600 * 5,600 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 * 5,200 * 4,500 *						
Radius (ft) 32.0 34.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 55.0 65.0 70.0 75.0 80.0 85.0 99.0 99.0 110.0 1120.0 130.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 66.5 63.2 61.5 59.7 56.2 52.5 48.5	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 21,800 19,900 18,000 10,400 15,000 11,000 9,400 8,200	21,700 * 20,600 * 18,400 * 16,200 * 14,100 13,000 12,000 10,400 9,100 7,800	13,300 * 13,100 * 12,700 * 11,900 * 11,900 * 10,000 * 8,900 * 7,900 * 6,800 *	9,200 * 9,000 * 8,800 * 8,400 * 8,200 * 7,400 * 6,500 * 5,700 *	Radius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 140.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2	30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	18,200 * 17,100 * 15,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 11,	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 4,600 *	7,700 * 7,500 * 7,000 * 6,000 * 6,000 * 5,200 * 4,500 * 3,700 *						
Radius (tt)  32.0 34.0 34.0 36.0 34.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 140.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 65.5 59.7 56.2 52.5 48.5 44.3	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 24,000 * 24,000 * 21,800 15,000 15,000 11,000 9,400 8,200 7,200	21,700 * 20,600 * 19,500 * 16,200 * 14,100 13,000 10,400 9,100 7,800 6,800	2 Degree Machine List  13,300 * 13,100 * 12,700 * 11,300 * 11,300 * 11,000 * 8,900 * 7,900 * 6,800 * 5,900 * 5,900 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 7,400 * 6,500 * 5,700 * 4,900 *	Radius (ft)  34.0 36.0 38.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 150.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 63.0 61.4 55.1 47.2 43.1	30 Degree Machine List 30,300 * 29,200 * 28,700 * 28,200 * 27,700 * 27,700 * 26,300 * 24,900 * 23,200 * 11,500 * 10,600 * 12,400 * 13,500 * 12,400 * 10,600 9,200 7,800 6,500 \$ 5,200 *	18,200 * 17,100 * 16,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,000 * 7,100 * 5,900 * 4,900 * 4,900 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 * 3,700 *	7,700 * 7,500 * 7,000 * 6,800 * 6,000 * 5,200 * 4,500 *						
Radius (tt)  32.0 34.0 34.0 36.0 40.0 42.0 44.0 46.0 48.0 55.0 65.0 77.0 75.0 80.0 85.0 99.0 99.0 110.0 1120.0 130.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 66.5 63.2 61.5 59.7 56.2 52.5 48.5	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 21,800 19,900 18,000 10,400 15,000 11,000 9,400 8,200	21,700 * 20,600 * 18,400 * 16,200 * 14,100 13,000 12,000 10,400 9,100 7,800	13,300 * 13,100 * 12,700 * 11,900 * 11,900 * 10,000 * 8,900 * 7,900 * 6,800 *	9,200 * 9,000 * 8,800 * 8,400 * 8,200 * 7,400 * 6,500 * 5,700 *	Radius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 140.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2	30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	18,200 * 17,100 * 15,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 12,400 * 11,700 * 11,	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 4,600 *	7,700 * 7,500 * 7,000 * 6,000 * 6,000 * 5,200 * 4,500 * 3,700 *						
Radius (tt)  32.0 34.0 34.0 36.0 34.0 40.0 42.0 44.0 46.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 140.0 150.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 65.5 55.2 48.3 39.7	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 30,600 * 30,100 * 29,600 * 24,000 * 21,800 15,000 115,000 113,900 11,000 9,400 8,200 7,200 6,300	21,700 * 20,600 * 11,300 * 15,300 * 14,100 13,000 10,400 9,100 7,800 6,800 5,900	13,300 * 13,100 * 12,700 * 11,900 * 11,000 * 8,900 * 7,900 * 6,800 * 5,900 * 5,100 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 7,400 * 6,500 * 5,700 * 4,900 * 4,100 *	Radius (ft)  34.0 36.0 38.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 150.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 63.0 61.4 55.1 47.2 43.1	30 Degree Machine List 30,300 * 29,200 * 28,700 * 28,200 * 27,700 * 27,700 * 26,300 * 24,900 * 23,200 * 11,500 * 10,600 * 12,400 * 13,500 * 12,400 * 10,600 9,200 7,800 6,500 \$ 5,200 *	18,200 * 17,100 * 16,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,000 * 7,100 * 5,900 * 4,900 * 4,900 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 * 3,700 *	7,700 * 7,500 * 7,000 * 6,000 * 6,000 * 5,200 * 4,500 * 3,700 *						
Radius (ft)  32.0 34.0 34.0 34.0 34.0 40.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 120.0 130.0 140.0 155.0	Angle (deg.) 81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.5 64.9 63.2 55.5 44.3 39.7 34.8	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,700 * 31,100 * 30,600 * 30,100 * 29,600 * 24,000 * 21,800 15,000 13,900 12,900 11,000 9,400 8,200 7,200 6,300 5,300	21,700 * 20,600 * 11,700 * 11,	13,300 * 13,100 * 12,700 * 11,900 * 11,000 * 10,000 * 7,900 * 6,800 * 5,900 * 5,100 * 4,000 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 * 7,400 * 6,500 * 5,700 * 4,900 * 4,100 *	Radius (ft)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 55.0 65.0 65.0 77.0 80.0 85.0 90.0 91.0 110.0 120.0 130.0 155.0	Boom Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 76.8 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 63.0 61.4 55.1 47.2 43.1	30 Degree Machine List 30,300 * 29,200 * 28,700 * 28,200 * 27,700 * 27,700 * 26,300 * 24,900 * 23,200 * 11,500 * 10,600 * 12,400 * 13,500 * 12,400 * 10,600 9,200 7,800 6,500 \$ 5,200 *	18,200 * 17,100 * 16,100 * 11,700 * 11,700 * 11,700 * 11,700 * 11,000 * 7,100 * 5,900 * 4,900 * 4,900 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 4,600 * 3,700 * 3,700 *	7,700 * 7,500 * 7,000 * 6,000 * 6,000 * 5,200 * 4,500 * 3,700 *						

NOTES

Note: This catalog may contain photographs of machines with specifications, attachments and optional equipment not certified for operation in your country. Please consult KOBELCO for those items you may require. Due to our policy of continual product improvements all designs and specifications are subject to change without advance notice.

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