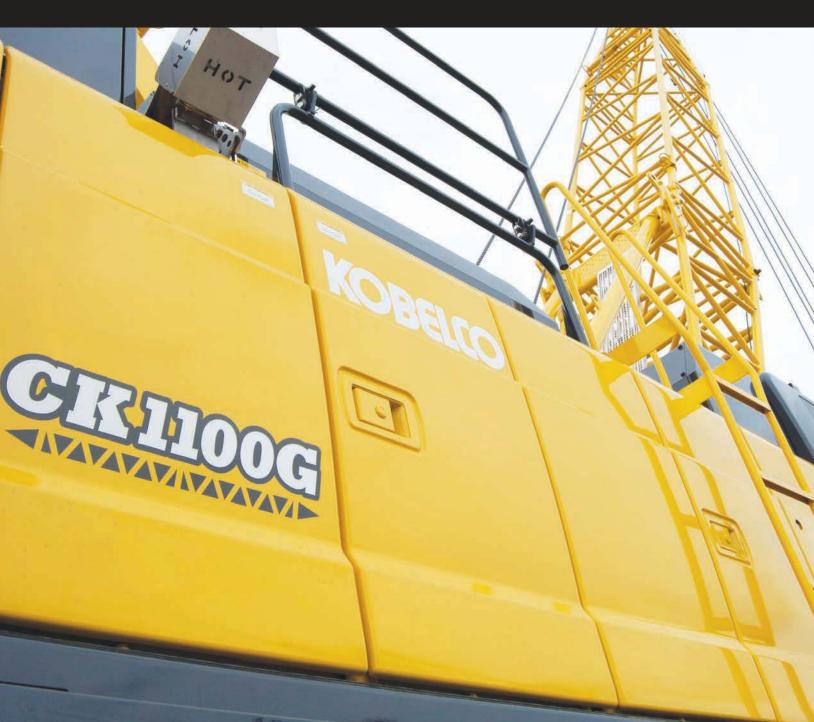


Hydraulic Crawler Crane

# GRIDOG

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

Max. Fixed Jib Combination: 190 ft + 60 ft



# CK1100G CONTENTS

**BARGE DATA** 

**SPECIFICATIONS** 2 **G-MODE** 6 LMI **WINCH PERFORMANCE** 8 **GENERAL DIMENSIONS** 9 **DIMENSIONS & WEIGHT** 13 TRANSPORTATION PLAN **SELF ASSEMBLY PROCEDURE COUNTERWEIGHT SELF-REMOVAL DEVICE BOOM & JIB ARRANGEMENTS WORKING RANGES SUPPLEMENTAL DATA LIFTING CAPACITY CLAMSHELL 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)
Shoe width Ground clearance of body	36" (0.91 m) 15" (0.39 m)

#### **Working Speed**

*Hoist line speed (front and rear drums)* 

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

Lowering line speed (front and rear drums)

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

Boom hoist line speed (front and rear drums)

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

Boom lowering line speed (front and rear drums)

230 ~ 6.6 ft/min (70 ~ 2 m/min)

Swing speed (max.) 4.0 rpm

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

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

drum.

## **Upper Machinery**

Power Plant:

Diesel engine - make and model

Hino J08E-UV

(complies with Interim "Tier 4")

No. of cylinders 6

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

(122 mm x 150 mm)

Cycles

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** 

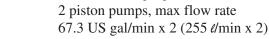
Full flow filters with replaceable paper elements

Reservoir capacity

116.2 US gal. (440 liters)

#### Hydraulic pumps:

Load hoist, boom hoist, and propel



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 t/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.

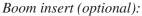


#### **Crane Attachments**

Boom:

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

Maximum boom length 200' (61.0 m) Basic boom length 40' (12.2 m) Boom base section 19'7" (5.97 m) 22'8" (6.91 m) Boom tip section



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

Boom insert

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

Jib (optional):

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

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

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

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



Auxiliary sheave (optional):

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

Boom hoist reeving:

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

Boom backstops:

Telescopic type with spring bumper

### **Standard Equipment**

Lights:

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

Gauges and warning display

Gauges

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

One (1) water temperature

Warning display

Battery charge Engine oil pressure Air cleaner

Engine oil filter

Control main pressure Hydraulic oil temperature

DPF condition indicator

Others

Air conditioner/heater

Drum turn indicator (front/rear)

Foot pedal / throttle Electric transfer pump

Counterweight self-removal device

**KCross Telematics** Free fall winches

**Safety Service** 

Function lock lever **Swing Limiter** 

Boom over hoist limit switch

Signal horn

Front/rear hoist drum lock

Swing Limiter (Buzzer, lamps, or stops)

Overload prevention device (LMI)

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

Boom angle indicator

Travel alarm

Safety Service (cont)

Level indicator

Boom hoist drum lock

Swing locks, anti drift, and mechanical

Boom backstops

Boom base catwalk

Upper machinery catwalk, handrails

and ladder

**Tools and Accessories** 

A set of tools and accessories are

furnished.

**Optional Equipment** 

Third drum

Hook block

Hook ball

Auxiliary sheave

Fixed jib

Boom inserts

Carbody erection cylinder

#### **G-Mode**

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

Auto Idling Stop Mode (AIS):

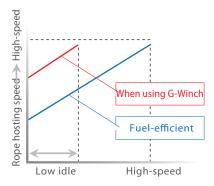
An Industry First

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

G-Winch Mode:

An Industry First

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



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

G-Engine Mode:

An Industry First

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











**G-Engine** 

**G-Winch** 

AIS



Exhaust cleaning DPR:

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

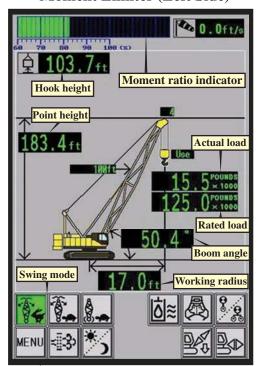
A new clean diesel system - although diesel engines consume less fuel and emit less CO2 than gasoline engines, they also emit more harmful particulate matter and nitrogen oxide (NOx). The "new clean energy system" engine utilizes a DPF to reduce particulate matter, which is also kept to a minimum using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

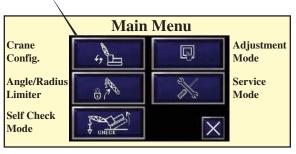
\* Warning: High sulfer diesel will damage the engine.

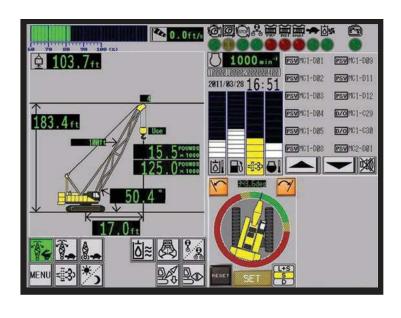
#### **Load Moment Indicator (LMI)**

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

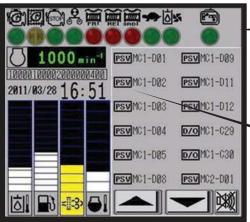
#### **Moment Limiter (Left Side)**







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



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

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

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

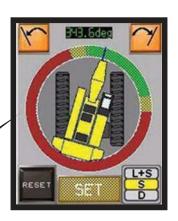
## Gauges

Hydraulic oil temperature Fuel gauge Diesel particulate filter gauge Coolant temperature

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

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

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



#### **Winch Performance Data**

#### Note:

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

Line speed and line pull based on single line.

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

#### Front & Rear Drum

Wire Rope Diameter = 26 mm

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

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

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

#### Line speed (ft/min)

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

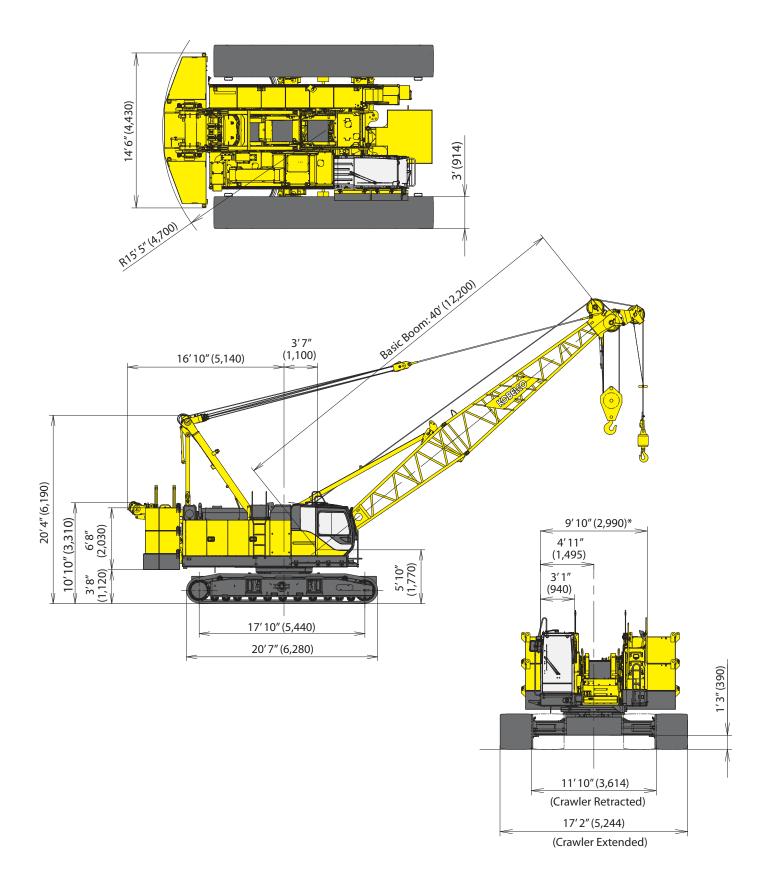
#### Line speed (ft/min)

	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	pacity (ft)	130	139	148	157	166	175

## **Wire Rope Specifications**

Use	Construction	No load diameter	Length	Safety Factor	Required minimum breaking strength
Front drum	6 x 29 Filler IWRC Right hand lay, Regular lay	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.

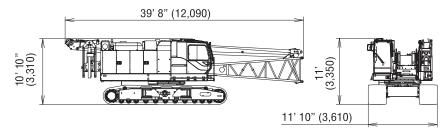
### **Dimensions and Weight**

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

#### Base Machine - 1

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

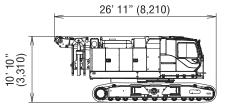
Boom base, gantry, crawlers, self removal unit, and wire ropes (front, rear, and boom hoist)

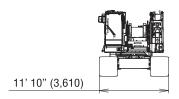


#### Base Machine - 2

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

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

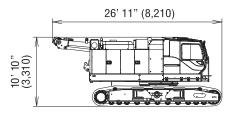


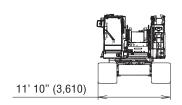


#### Base Machine - 3

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

wire ropes (front, rear, and boom hoist)

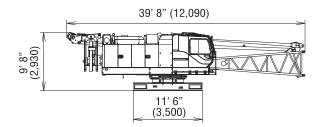


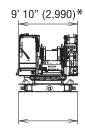


#### Base Machine - 4

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

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

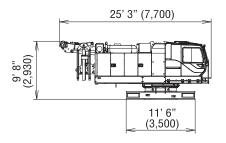


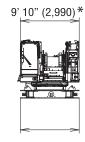


#### Base Machine - 5

Weight: 56,900 lbs (25,820 kg) Gantry, self removal unit, and

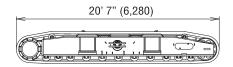
wire ropes (front, rear, and boom hoist)

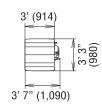




#### Crawler

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





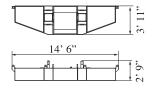
<sup>\* - 10&#</sup>x27;5" wide with Catwalks on cab side only. 11' wide with Catwalks on both sides.

## **Dimensions and Weight**

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

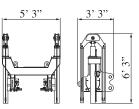
#### **Counterweight Base**

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



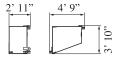
#### **Self Removal Unit**

Weight: 1,900 lbs (870 kg)



#### Counterweight (R)

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



#### Counterweight (L)

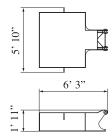
Weight: 12,700 lbs (5,750 kg)





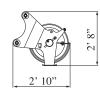
#### **Carbody Weight**

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



#### **Auxiliary Sheave**

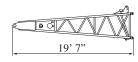
Weight: 430 lbs (195 kg)





#### **Boom Base**

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

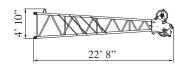




#### **Boom Tip**

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





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

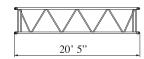
Weight: 800 lbs (364 kg) Includes cable roller and guy lines





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

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

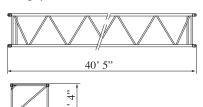




#### 40 ft (12.2 m) Insert Boom

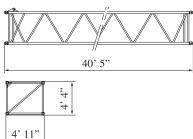
Weight: 2,400 lbs (1,098 kg) Includes cable roller and guy lines

4' 11"



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

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

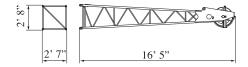


## **Dimensions and Weight**

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

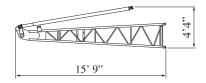
Jib Tip

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



**Jib Base and Strut** 

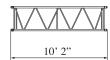
Weight: 1,400 lbs (637 kg) Includes guy line.





10 ft (3.0 m) Insert Jib

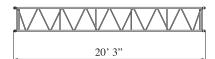
Weight: 280 lbs (128 kg) Includes cable roller and guy line.



	2, 8,,
2' 8"	,

20 ft (6.1 m) Jib Insert

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





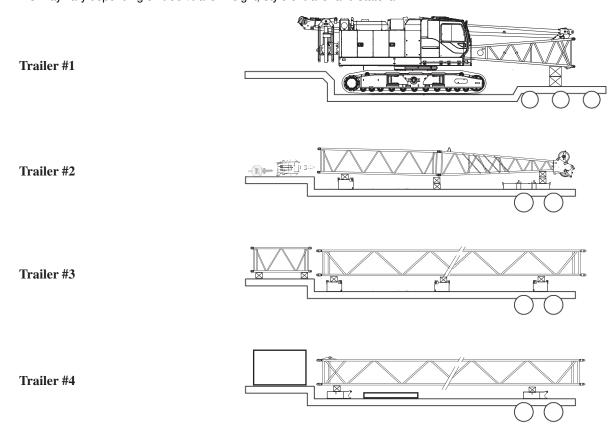
**Transportation Plan**Refer to pages 10-12

#### Shipping plan for 150 ft Boom

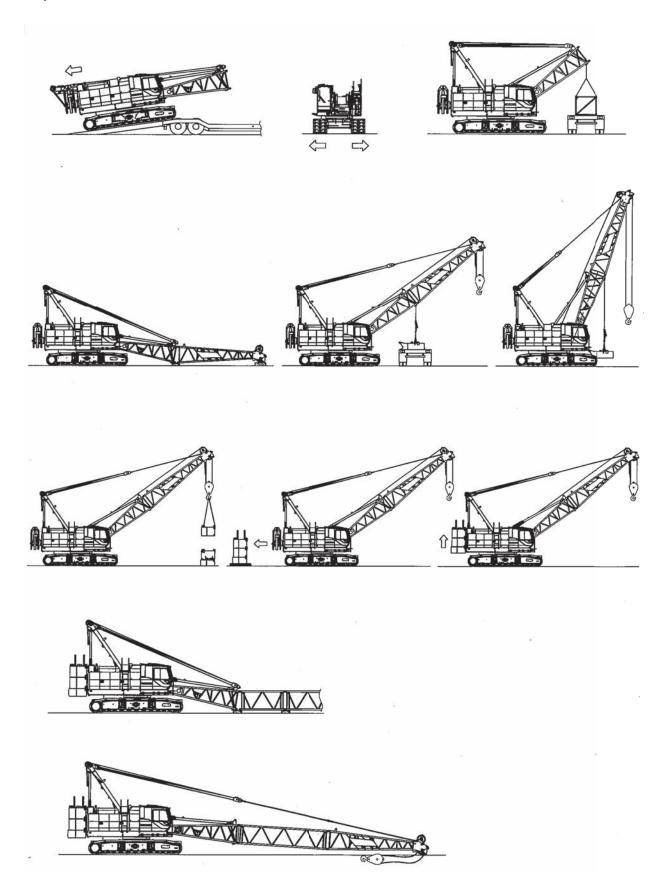
Description of Item	Wei	ight		Trailer	Loads	
Description of item	lbs	(kg)	#1	#2	#3	#4
Base Machine with Boom Base and Crawlers*	95,200	(43,150)	1			
Counterweight Base	18,200	(8,310)		1		
Counterweight (L)	12,700	(5,750)			2	
Counterweight ('R)	12,700	(5,750)		1	1	
Carbody Weight	15,900	(7,200)				2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

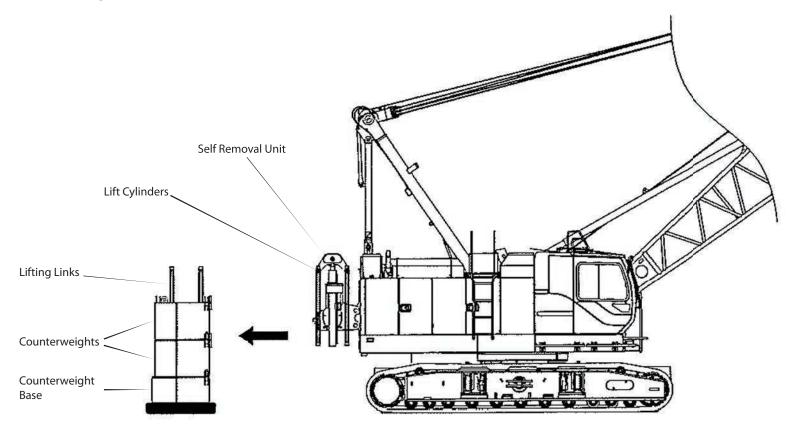
Loads for transportation were targeted at 45,000 lbs, 8' 6" wide, 48' long and 13' 6" high from ground, 48' step deck. This may vary depending on truck/trailer weight, style of trailer and state law.

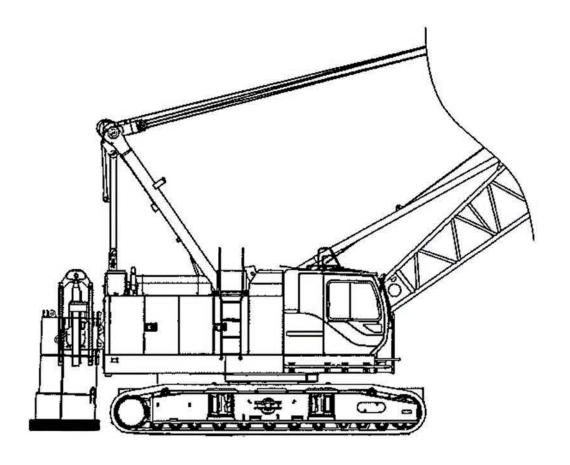


## **Self-Assembly Procedure**



## **Counterweight Self-Removal Device**



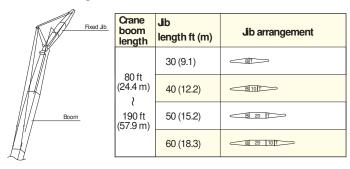


## **Boom and Fixed Jib Arrangement**

#### **Boom Arrangement**

Boom length ft (m)	Boom arrangement
40 (12.2)	
50 (15.2)	<u>□10</u> 1 →
60 (18.3)	*
70 (21.3)	※ ■ 10 20 □
80 (24.4)	*
90 (27.4)	★ ■ 10 20 20 17 → ■ 10 40A 17 → ■ 1
100 (30.5)	*
110 (33.5)	
120 (36.6)	※     SI 10 10 20 40A T       SI 40 40A T       SI 20 20 40A T
130 (39.6)	★ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □
140 (42.7)	※     E 10 10 20 20 40A       E 10 10 40 40A

#### **Fixed Jib Arrangement**

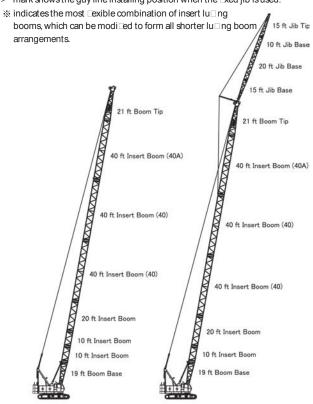


Symbol	Jib Length	Remarks
В	15 ft (4.6 m)	Jib Base
	15 ft (4.6 m)	Jib Top
10	10 ft (3.0 m)	Insert Jib
20	20 ft (6.1 m)	Insert Jib

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 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		

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

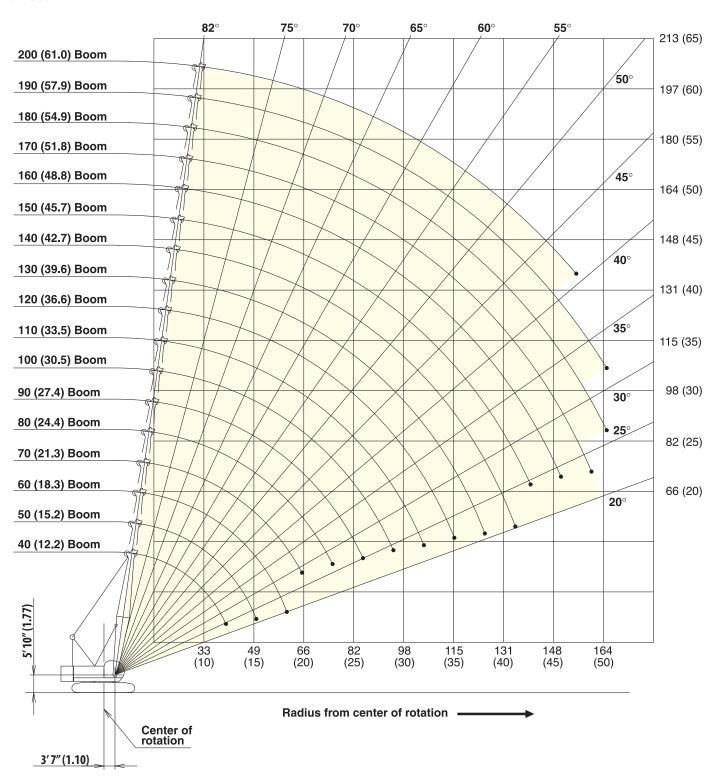


Main Boom - 200 ft (61.0 m)

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

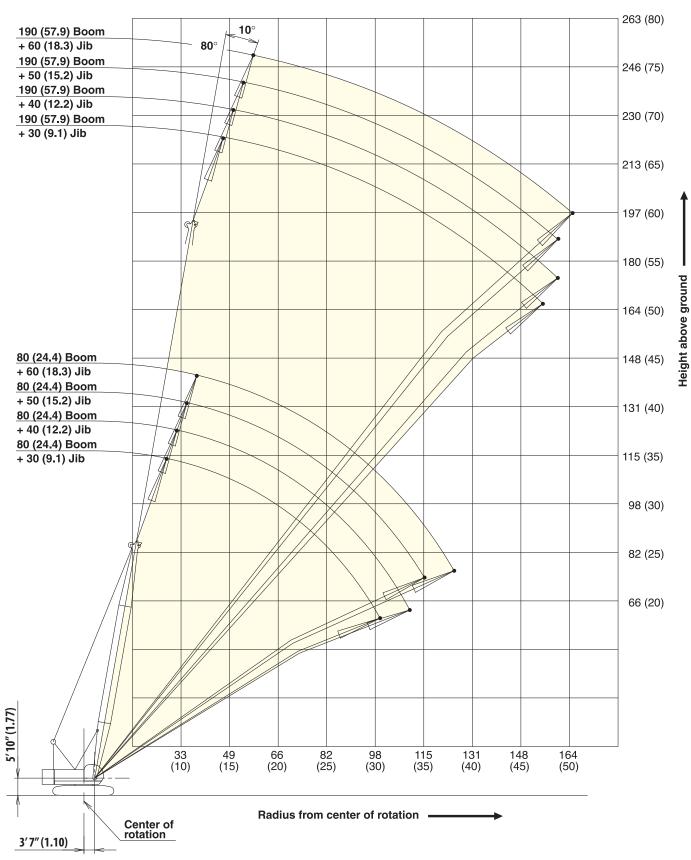
## **Working Ranges**

Main Boom
Unit: ft (m)



## **Working Ranges**

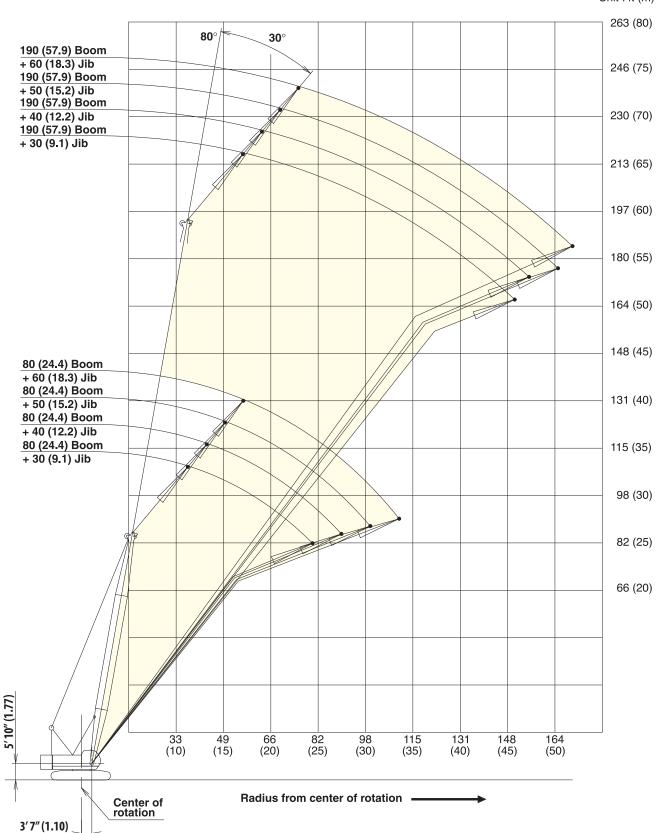




Height above ground

## **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.

# Main Boom Lift Capacity

ain Bo	OIII LII										<b>3</b>			
40	)' Boo	m	50	)' Boo	m	60	)' Boo	m	70	0' Boo	m	80	)' Boo	m
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.)	360° Pated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Pated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)
11.0 <b>12.0</b> 13.0 <b>14.0</b>	80.5 <b>79.0</b> 77.5 <b>76.0</b>	220,000 * <b>213,300</b> * 200,800 * <b>188,100</b> *	12.0 <b>13.0</b> 14.0 <b>15.0</b>	81.2 <b>80.0</b> 78.9 <b>77.7</b>	213,200 * <b>200,600</b> * 187,800 * <b>175,600</b> *	13.0 <b>14.0</b> 15.0 <b>16.0</b>	81.7 <b>80.7</b> 79.8 <b>78.8</b>	200,400 * <b>187,400</b> * 175,200 * <b>164,800</b> *	15.0 <b>16.0</b> 17.0 <b>18.0</b>	81.3 <b>80.4</b> 79.6 <b>78.7</b>	151,000 * <b>151,000</b> * 149,400 * <b>146,700</b> *	16.0 <b>17.0</b> 18.0 <b>19.0</b>	81.6 <b>80.9</b> 80.2 <b>79.5</b>	151,000 * <b>149,300</b> * 146,500 * <b>139,400</b> *
15.0 <b>16.0</b> 17.0	74.6 <b>73.1</b> 71.6	175,900 * <b>165,500</b> * 156,300 *	16.0 <b>17.0</b> 18.0	76.6 <b>75.4</b> 74.2	165,300 * <b>156,000</b> * 147,400 *	17.0 <b>18.0</b> 19.0	77.8 <b>76.8</b> 75.9	155,500 * <b>146,900</b> * 139,800 *	19.0 <b>20.0</b> 22.0	77.9 <b>77.1</b> 75.4	139,800 * <b>132,200</b> 115,400	20.0 <b>22.0</b> 24.0	78.8 <b>77.3</b> 75.8	131,800 <b>115,100</b> 101,000
<b>18.0</b> 19.0 <b>20.0</b> 22.0	<b>70.1</b> 68.5 <b>66.9</b> 63.7	<b>147,800</b> * 140,500 * <b>132,800</b> 115,600	19.0 20.0 22.0 24.0	<b>72.9</b> 71.7 <b>69.3</b> 66.8	<b>140,100</b> * 132,400 <b>115,300</b> 101,000	20.0 22.0 24.0 26.0	<b>74.9</b> 72.9 <b>70.9</b> 68.8	<b>132,200</b> 115,100 <b>100,800</b> 89,100	24.0 26.0 28.0 30.0	<b>73.7</b> 72.0 <b>70.3</b> 68.5	<b>101,300</b> 89,600 <b>80,800</b> 73,000	26.0 28.0 30.0 32.0	<b>74.3</b> 72.8 <b>71.2</b> 69.7	<b>89,200</b> 80,500 <b>72,800</b> 66,600
24.0 26.0 28.0 30.0	<b>60.4</b> 57.0 <b>53.4</b> 49.8	<b>101,300</b> 89,600 <b>80,900</b> 73,300	26.0 28.0 30.0 32.0	<b>64.3</b> 61.7 <b>59.1</b> 56.3	<b>89,400</b> 80,700 <b>73,000</b> 67,000	<b>28.0</b> 30.0 <b>32.0</b> 34.0	<b>66.7</b> 64.6 <b>62.5</b> 60.3	<b>80,500</b> 72,800 <b>66,600</b> 61,600	<b>32.0</b> 34.0 <b>36.0</b> 38.0	<b>66.7</b> 64.9 <b>63.0</b> 61.2	<b>67,000</b> 62,000 <b>57,800</b> 53,600	34.0 36.0 38.0 40.0	<b>68.2</b> 66.6 <b>65.1</b> 63.5	<b>61,600</b> 57,300 <b>53,100</b> 49,300
<b>32.0</b> 34.0 <b>36.0</b>	<b>45.8</b> 41.2 <b>36.2</b>	<b>67,200</b> 61,700 <b>56,600</b>	<b>34.0</b> 36.0 <b>38.0</b>	<b>53.4</b> 50.3 <b>47.3</b>	<b>62,000</b> 57,800 <b>53,600</b>	<b>36.0</b> 38.0 <b>40.0</b>	<b>58.0</b> 55.7 <b>53.4</b>	<b>57,300</b> 53,100 <b>49,300</b>	<b>40.0</b> 42.0 <b>44.0</b>	<b>59.3</b> 57.3 <b>55.3</b>	<b>49,800</b> 46,900 <b>44,100</b>	<b>42.0</b> 44.0 <b>46.0</b>	<b>61.8</b> 60.2 <b>58.5</b>	<b>46,600</b> 43,800 <b>41,100</b>
38.0 <b>40.0</b>	31.1 <b>25.4</b>	51,500 <b>45,900</b> *	40.0 <b>42.0</b> 44.0 <b>46.0</b> 48.0	44.0 <b>40.4</b> 36.7 <b>32.9</b> 27.6	49,800 <b>47,000</b> 44,300 <b>41,500</b> 38,300	42.0 44.0 46.0 48.0 50.0	50.9 <b>48.3</b> 45.8 <b>42.8</b> 39.9	46,600 <b>43,800</b> 41,100 <b>39,200</b> 37,200	46.0 <b>48.0</b> 50.0 <b>55.0</b> 60.0	53.3 <b>51.2</b> 49.0 <b>43.2</b> 36.9	41,300 <b>39,400</b> 37,400 <b>33,200</b> 29,600	48.0 <b>50.0</b> 55.0 <b>60.0</b> 65.0	56.8 <b>55.1</b> 50.5 <b>45.7</b> 40.4	39,100 <b>37,100</b> 32,700 <b>29,200</b> 26,300
Ree	WAS	8	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
		0	ı Hee	ves i	X	l Hee	Ves	1 8	l Ree	Ves	16	l Ree	Ves	16
90	)' Boo			ves 0' Boo	om 8		ves 0' Boo	om 8	Ree 12	eves 20' Boo	om 6		ves 0' Boo	om 6
Load Radius (ft)				0' Boom										
Load Radius (ft) 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0	360° Pated Load (lbs) 125,800 * 125,800 * 125,800 * 124,000 *	Load Radius (ft) 19.0 20.0 22.0 24.0	81.6 81.0 79.9 78.7	360° Pated Load (lbs) 125,600 * 123,600 * 112,200 * 100,600	Load Radius (ft) 20.0 22.0 24.0 26.0	81.8 80.8 79.7 78.6	360° Pated Load (lbs) 100,800 * 100,800 * 96,500 * 88,500 *	Load Radius (ft) 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.6 80.6 79.6 78.6	360° Pated Load (lbs) 98,700 * 94,200 * 88,000 * 79,900	Load Radius (ft) 24.0 26.0 28.0 30.0	81.3 80.4 79.5 78.6	360° Rated Load (lbs) 85,100 * 83,900 * 78,200 * 71,900
Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.9 80.7 80.0 78.7 77.4 76.1 74.8	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500	Load Padius (ft) 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 88,900 72,400 66,300	Load Padius (ft) 20.0 24.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.8 80.8 79.7 78.6 77.6 76.5 75.4 74.3	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 88,500 * 80,200 72,400 66,300 61,300	Load Padius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.6 79.6 78.6 77.7 76.7 75.7 74.7	98,700 * 94,200 * 88,000 * 72,200 66,100 61,100 56,800	Load Padius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9	360° Rated Load (lbs)  85,100 * 83,900 * 78,200 * 71,900 65,900 60,900 56,600 52,300
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	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	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	10 Load Padius (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	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1	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	Load Padius (ft)  20.0 24.0 24.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0	80.8 80.8 79.7 78.6 77.6 76.5 75.4 73.2 72.2 71.1 70.0	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	Load Padius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0	80' 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	98,700 * 94,200 * 88,000 * 79,900 72,200 66,100 61,100 52,500 48,700 45,800 43,000	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0	80.4 79.5 78.6 77.7 76.9 75.9 74.1 73.2 71.3	360° Pated Load (lbs)  85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000
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 44.0	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 69.4 68.0 66.6 65.2 63.8	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 49,300 46,500 43,700	Load Padius (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 44.0 44.0 48.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 33,700	Load Padius (ft)  20.0 24.0 24.0 28.0 30.0 30.0 36.0 38.0 40.0 42.0 44.0 48.0 50.0	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 65.4	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 57,000 52,700 48,900 40,700 33,400 40,700 38,700 36,600	Load Padius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 46.0 48.0 50.0 55.0	80.6 79.6 76.7 75.7 74.7 71.7 70.7 70.7 76.7 76.7 76.7 76.7 76.7 76	360° Pated 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 36,300 32,000	Load Padius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 40.0 44.0 46.0 48.0 55.0 60.0	81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 72.2 71.3 69.4 67.1 64.6	360° Rated Load (lbs)  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
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 44.0 44.0 48.0 50.0 55.0	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 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 40,900 33,900 36,900 32,500	Load Padius (ft)  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	81.6 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 62.8 59.5 56.1 52.5	360° Rated Load (lbs)  125,600 * 123,600 * 112,200 * 100,600 88,900 80,200 72,400 66,300 61,300 57,000 52,700 48,900 46,200 43,400 40,700 38,700 38,700 38,700 28,700 25,900	Load Padius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 36.0 38.0 40.0 46.0 48.0 50.0 60.0 65.0 70.0	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 66.6 65.4 62.5 59.5 56.5 53.2	360° Rated Load (lbs)  100,800 * 100,800 * 96,500 * 80,200 72,400 66,300 61,300 52,700 48,900 46,200 43,400 40,700 38,700 36,600 32,300 28,700 25,900 23,500	Load Padius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 50.0 55.0 605.0 70.0 75.0	80.6 79.6 78.6 77.7 76.7 75.7 74.7 73.7 72.7 71.7 70.7 69.7 68.6 67.6 67.6 65.0 62.3 59.6 56.8 53.8	98,700 * 94,200 * 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	Load Radius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 44.0 48.0 50.0 55.0 60.0 75.0 80.0	80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	360° Pated Load (lbs)  85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 28,100 22,900 20,900 19,000
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 44.0 46.0 48.0 50.0	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 69.4 68.0 66.6 65.2 63.8 62.4 60.9 59.4	360° Rated Load (lbs)  125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 43,700 40,900 38,900 36,900	Load Padius (ft)  19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 44.0 48.0 50.0 55.0 60.0	81.6 81.0 79.9 78.7 77.5 76.3 75.1 74.0 72.8 71.6 70.3 69.1 67.9 66.6 65.4 64.1 62.8 59.5 56.1	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	Load Padius (ft)  20.0 24.0 24.0 28.0 30.0 34.0 34.0 40.0 44.0 46.0 45.0 65.0	80.8 79.7 78.6 77.6 76.5 75.4 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 * 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 Padius (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 75.7 74.7 70.7 69.7 68.6 65.0 62.3 59.6 56.8	360° Pated 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 46.0 48.0 50.0 65.0 670.0 75.0	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	360° Pated 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 20,900 17,500 16,100 15,000 14,000 12,100
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 44.0 50.0 65.0 70.0 75.0	81.9 81.3 80.7 80.0 78.7 77.4 76.1 70.8 69.4 68.0 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 * 125,800 * 112,500 * 100,800 89,100 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,500 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800 21,800	Load Padius (ft)  19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 95.0	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	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 38,700 38,700 28,700 25,900 23,500 21,400 19,600 18,100	Load Padius (ft)  20.0 24.0 24.0 28.0 32.0 32.0 36.0 40.0 44.0 48.0 55.0 60.0 65.0 70.0 85.0 90.0	80.8 79.7 78.6 77.6.5 75.4 74.3 73.2 72.2 71.1 70.0 68.9 66.6 65.4 62.5 59.5 56.5 53.2 49.9 46.4 42.6 38.6 34.1 29.1 23.2	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 36,600 32,300 28,700 21,400 19,600 18,100 16,800	Load Padius (ft)  22.0 24.0 26.0 28.0 30.0 32.0 34.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 110.0 115.0	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	Load Padius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 44.0 48.0 55.0 65.0 70.0 75.0 80.0 100.0 125.0	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	360° Pated 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 14,000

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

## **Main Boom Lift Capacity**

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°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius	Angle	Rated Load	Radius		Rated Load	Radius		Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
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	<b>77.8</b>	60,500	36.0	<b>77.8</b>	54,100 *	<b>38.0</b>	77.9	<b>47,800</b> *	40.0	77.9	41,200 *	40.0	78.6	<b>36,400</b> *
36.0	76.9	56,200	38.0	77.0	51,000 *	40.0	77.2	46,600 *	42.0	77.2	40,600 *	42.0	77.9	35,800 *
<b>38.0</b> 40.0	<b>76.1</b> 75.2	<b>52,000</b> 48,200	<b>40.0</b> 42.0	<b>76.3</b> 75.5	<b>48,000</b> 45,200	<b>42.0</b> 44.0	<b>76.4</b> 75.6	<b>44,300 *</b> 42,100 *	<b>44.0</b> 46.0	<b>76.5</b> 75.8	<b>40,000 *</b> 39,300 *	<b>44.0</b> 46.0	<b>77.2</b> 76.6	<b>35,100</b> * 34,500 *
42.0	74.4	45,400	44.0	74.7	42,400	46.0	74.9	39,800	48.0	75.1	37,400 *	48.0	75.9	33,900 *
44.0 <b>46.0</b>	73.5 <b>72.7</b>	42,600 <b>39,800</b>	46.0 <b>48.0</b>	73.9 <b>73.1</b>	39,600 <b>37,500</b>	48.0 <b>50.0</b>	74.1 <b>73.4</b>	37,800 <b>35,800</b>	50.0 <b>55.0</b>	74.4 <b>72.6</b>	35,400 * <b>31,200</b>	50.0 <b>55.0</b>	75.3 <b>73.7</b>	33,300 * <b>30,800 *</b>
48.0	71.8	37,800	50.0	72.3	35,500	55.0	71.5	31,400 <b>27,800</b>	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	57.4	17,000	90.0	57.6	15,700	95.0	57.8	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>	55.2 <b>52.8</b>	15,700 <b>14,400</b>	95.0 <b>100.0</b>	55.4 <b>53.2</b>	14,500 <b>13,500</b>	100.0 <b>110.0</b>	55.8 <b>51.5</b>	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>
-		-,												
Hee	ves	4	Ree	ves	4	Ree	ves	2	Rec	ves	2	Ree	ves	2
	ves 0' Boo			ves 0' Boo		Ree	ves	2	Ree	ves	2	Ree		2
19 Load	0' Boom	om 360°	20 Load	0' Boom	om 360°	Ree	ves	2	Ree	ves	2	Ree		2
19	0' Boo	om 💮	20	0' Boom	om	Ree	eves	2	Ree	eves	2	Ree		2
Load Padius (ft) 32.0	O' Boom Angle (deg.)	360° Pated Load (lbs) 34,400 *	Load Padius (ft) 34.0	O' Boom Angle (deg.) 81.5	360° Pated Load (lbs) 30,300 *	Ree	ves	2	Ree	eves	2	Ree		2
Load Padius (ft)	0' Boom Boom Angle (deg.)	360° Pated Load (lbs) 34,400 * 33,800 *	Load Radius (ft)	O' Boom Angle (deg.)	360° Rated Load (lbs)	Rec	eves	2	Rec	eves	2	Ree		2
Load Radius (ft) 32.0 34.0 36.0 38.0	81.6 80.4 81.8 81.9	360° Pated 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 79.7	360° Pated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 *	Rec	eves	2	Rec	eves	2	Ree		2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0	81.6 80.4 79.8 79.2	360° Pated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 32,200 *	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0	81.5 80.9 80.3 79.1	360° Pated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 *	Ree	ves	2	Ree	ves	2	Ree		2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.6 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 Padius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0	80.5 80.3 80.3 79.7 79.1 78.6 78.0	360° Pated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 *	Ree	eves	2	Ree	eves	2	Ree		2
Load Padius (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 77.4	360° Rated Load (lbs) 34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 30,600 *	20 Load 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	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 *	Ree	eves	2	Ree	eves	2	Ree		2
19 Load Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0	81.6 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 Padius (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 77.4	360° Pated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 27,300 *	Ree	ves	2	Ree	eves	2	Ree		2
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 46.0 50.0 55.0	81.6 81.0 80.4 79.8 79.2 78.6 77.4 76.1 74.5	360° Pated 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 Padius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 55.0 60.0	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 * 26,300 * 24,900 * 23,200 *	Ree	ves	2	Ree	eves	2	Ree		2
Load Padius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 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	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 Padius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 60.0 65.0	80.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4	360° Pated Load (lbs)  30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 * 26,800 * 26,300 * 24,900 *	Ree	eves	2	Ree	eves	2	Ree		2
19 Load Padius (ft) 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 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 * 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 65.0 65.0 70.0 75.0	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	360° Pated Load (lbs)  30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 *	Ree	eves	2	Ree	eves	2	Ree		2
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 46.0 55.0 60.0 70.0 75.0	81.6 81.0 80.4 79.8 79.8 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2	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 * 26,200 * 21,800 19,900	20 Load Padius (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	81.5 80.9 80.3 79.7 79.1 78.6 76.8 75.3 73.8 70.9 69.3 67.8	360° Rated Load (lbs) 30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 * 17,100 *	Ree	eves	2	Ree	eves	2	Ree		2
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 76.1 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 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 21,800 19,900 18,000 16,400	20 Load Padius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0	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 67.8 66.2 64.6	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,200 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 18,500 * 17,100 * 15,900 * 14,700	Ree	ves	2	Ree	eves	2	Ree		2
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 90.0	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 68.2 66.5 64.9 63.2	360° Pated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 * 21,800 19,900 18,000 15,000	20 Load Radius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0	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	360° Pated Load (lbs)  30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 18,500 * 17,100 * 14,700 13,500	Ree	ves	2	Ree	eves	2	Ree		2
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 76.1 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 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 24,000 * 24,000 * 21,800 19,900 18,000 15,000 13,900	20 Load Padius (ft)  34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0	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 67.8 66.2 64.6	360° Rated Load (lbs)  30,300 * 29,700 * 29,200 * 28,200 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 18,500 * 17,100 * 15,900 * 14,700	Ree	eves	2	Ree	eves	2	Rec		2
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 48.0 55.0 65.0 75.0 85.0 90.0 90.0 110.0	81.6 81.0 80.4 79.8 78.6 77.4 76.7 76.1 74.5 73.0 68.2 66.5 64.9 61.5 59.7 56.2	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,100 * 29,600 * 28,100 * 26,200 * 21,800 19,900 18,000 15,000 13,900 12,900 11,000	20 Load Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 50.0 55.0 65.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 120.0	81.5 80.9 80.3 79.7 79.1 78.6 75.8 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	2	Ree		2
Load Radius (ft)  32.0 34.0 36.0 38.0 40.0 44.0 48.0 55.0 65.0 65.0 75.0 85.0 90.0 91.0 110.0 120.0	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	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,100 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 24,000 * 19,900 18,000 15,000 13,900 11,000 9,400	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 85.0 90.0 95.0 100.0 110.0 120.0 130.0	80.9 80.3 79.7 79.1 78.6 75.3 73.8 72.4 70.9 69.3 66.2 64.6 63.0 61.4 58.1 54.6 51.1	360° Pated Load (lbs)  30,300 * 29,700 * 29,200 * 28,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800	Ree	ives	2	Ree	eves	2	Ree		2
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 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 44.3	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 24,000 * 21,800 19,900 18,000 15,000 13,900 12,900 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 46.0 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	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 51.1 47.2 43.1	360° Pated 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	ves	2	Ree	eves	2	Ree		2
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 90.0 100.0 110.0 120.0 150.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.1 74.5 73.0 71.4 69.2 66.5 64.9 63.2 61.5 59.7 56.2 59.7 56.3 39.7	360° Pated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,100 * 29,600 * 28,100 * 24,000 * 21,800 19,900 18,000 13,900 12,900 11,000 9,400 8,200 7,200 6,300	20 Load Padius (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	80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4 66.2 64.6 63.0 61.4 58.1 54.6 51.1 47.2	360° Pated Load (lbs)  30,300 * 29,700 * 29,200 * 28,200 * 27,700 * 27,300 * 26,300 * 24,900 * 23,200 * 21,500 * 15,900 * 14,700 13,500 12,400 10,600 9,200 7,800 6,500	Ree	ves	2	Ree	eves	2	Ree		2
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 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 44.3	360° Rated Load (lbs)  34,400 * 33,800 * 33,300 * 32,700 * 31,700 * 31,700 * 31,100 * 29,600 * 28,100 * 26,200 * 24,000 * 24,000 * 24,000 * 21,800 19,900 18,000 15,000 13,900 12,900 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 46.0 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	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 51.1 47.2 43.1	360° Pated 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	2	Ree	eves	2	Rec		2

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

Load Radius (ft) 30.0 32.0	10 Boom Angle (deg.)	) set An	t Jib	lea )				40 f	t .lih					===	, PI-						, PI-		
### Radius (ft) 30.0 <b>32.0</b>	Boom Angle (deg.)	) set An		(00.)										50 f	r.IID					60 f	r.IID		
### 30.0 <b>32.0</b>	Boom Angle (deg.)			eg.)			C	set An		eg.)			(	) set An		eg.)			(	) set An		eg.)	
### Radius (ft) 30.0 <b>32.0</b>	Angle (deg.)			30			10			30			10			30			10			30	2: 4
30.0 <b>32.0</b>		Rated Load	Load Padius		Rated Load	Load Padius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Padius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Padius	Boom Angle	Rated Load	Load Padius	Boom Angle	Rated Load
32.0	79.3	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 34.0	(deg.) 79.3	(lbs) 24,000*	(ft)	(deg.)	(lbs)	(ft) 38.0	(deg.) 79.3	(lbs) 20,000*	(ft)	(deg.)	(lbs)	(ft) 40.0	(deg.) 79.8	(lbs) 18,000*	(ft)	(deg.)	(lbs)
2/10	78.0	24,000*				36.0	78.3	24,000*				40.0	78.4	20,000*				45.0	77.7	18,000*			
34.0	77.0	24,000*				38.0	77.4	24,000*				45.0	76.1	20,000*				50.0	75.6	17,850*			
<b>36.0</b> 38.0	<b>75.9</b> 74.9	<b>24,000</b> * 24,000*	38.0	79.6	21,000*	<b>40.0</b> 45.0	<b>76.4</b> 73.9	<b>24,000*</b> 24,000*	45.0	79.7	15,360*	<b>50.0</b> 55.0	<b>73.8</b> 71.3	<b>20,000*</b> 18,560*	55.0	78.0	11,080*	<b>55.0</b> 60.0	<b>73.3</b> 71.2	<b>16,180</b> * 14,850*	60.0	78.7	8,950*
40.0	73.8	24,000*	40.0	78.5	21,000*	50.0	71.4	24,000*	50.0	77.1	14,480*	60.0	68.9	17,080*	60.0	<b>75.5</b>	10,490*	65.0	69.0	13,730*	65.0	<b>76.4</b>	8,480*
45.0	71.1	24,000*	45.0	75.7	20,700*	55.0	68.7	22,480*	55.0	74.3	13,640*	65.0	66.5	15,800*	65.0	73.0	9,980*	70.0	66.7	12,760*	70.0	74.1	8,060*
<b>50.0</b> 55.0	<b>68.3</b> 65.3	<b>24,000</b> * 24,000*	<b>50.0</b> 55.0	<b>72.8</b> 69.7	<b>19,510</b> * 18,380*	<b>60.0</b> 65.0	<b>66.1</b> 63.4	<b>20,700*</b> 19,180*	<b>60.0</b> 65.0	<b>71.6</b> 68.8	<b>12,980</b> * 12,360*	<b>70.0</b> 75.0	<b>64.0</b> 61.3	<b>14,720*</b> 13,710*	<b>70.0</b> 75.0	<b>70.4</b> 67.6	<b>9,540</b> * 9,100*	<b>75.0</b> 80.0	<b>64.3</b> 61.9	<b>11,860</b> * 11,130*	<b>75.0</b> 80.0	<b>71.5</b> 69.0	<b>7,670</b> * 7,340*
60.0	62.4	24,000* 24,000*	60.0	66.7	17,500*	<b>70.0</b>	60.6	17,870*	<b>70.0</b>	65.9	12,300* 11,830*	80.0	58.7	12,870*	80.0	64.8	<b>8,730</b> *	85.0	<b>59.5</b>	10,470*	85.0	66.5	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*
<b>70.0</b> 75.0	<b>56.2</b> 52.8	<b>20,810</b> 18,910	<b>70.0</b> 75.0	<b>60.3</b> 56.7	<b>16,020</b> * 15,380*	<b>80.0</b> 85.0	<b>54.6</b> 51.5	<b>15,670*</b> 14,810*	<b>80.0</b> 85.0	<b>59.6</b> 56.3	<b>10,930</b> * 10,560*	<b>90.0</b> 95.0	<b>53.2</b> 50.0	<b>11,500*</b> 10,890*	<b>90.0</b> 95.0	<b>59.0</b> 55.6	<b>8,130*</b> 7,840*	<b>95.0</b> 100.0	<b>54.2</b> 51.5	<b>9,320</b> * 8,860*	<b>95.0</b> 100.0	<b>60.9</b> 58.1	<b>6,500*</b> 6,280*
80.0	49.3	18,910 17,370	80.0	53.1	15,380° 14,850*	90.0	48.3	14,810* 14,040*	90.0	50.3 <b>52.9</b>	10,560* 10,250*	100.0	46.9	10,890* 10,360*	100.0	52.3	7,840* <b>7,620</b> *	100.0	48.7	8,440*	100.0 105.0	55.0	6,100*
85.0	45.7	16,020	-	-		95.0	44.6	13,310*			-,	105.0	43.6	9,890*			,	110.0	45.7	8,060*	110.0	51.8	5,930*
90.0	41.8	14,850				100.0	40.8	<b>12,690</b> *				110.0	40.0	9,470*				115.0	42.3	<b>7,690</b> *			
95.0 <b>100.0</b>	37.2 <b>32.4</b>	13,750 <b>12,830</b>				105.0 <b>110.0</b>	36.7 <b>32.1</b>	12,120 <b>11,350</b> *				115.0	35.8	9,080*				120.0 <b>125.0</b>	38.8 <b>35.1</b>	7,380* <b>7,120</b> *			
		,						,												- 7			
Ree		1		eves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	eves	1	Ree	ves	1
	90	Boor						10.6	7,					=0.0	7,					20.0	7,		
	(	30 f D set An	t Jib ale (d	(201)			(	40 f		og )			(	50 f Set An	t Jib ale (di	og )			(	60 f Set An		og )	
	10	) SC(Aii	gie (u	eg.) 30			10	) SCI AII	gi <del>e</del> (ui	eg.) 30			10	) SCI AII	gi <del>e</del> (ui	<del>3</del> 9.) 30			10	) SELMII	gi <del>e</del> (ui	<del>e</del> g.) 30	
Load Padius	Boom Angle	Rated Load	Load Padius	Boom	Rated Load	Load Padius	Boom Angle	Rated Load	Load Radius	Boom	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Padius	Boom	Rated Load	Load Padius	Boom	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>	79.1 <b>78.1</b>	24,000* <b>24,000</b> *				36.0 <b>38.0</b>	79.3 <b>78.4</b>	24,000* <b>24,000</b> *				38.0 <b>40.0</b>	80.0 <b>79.2</b>	20,000* <b>20,000</b> *				45.0 <b>50.0</b>	78.6 <b>76.6</b>	18,000* <b>18,000</b> *			
36.0	77.1	24,000*				40.0	77.5	24,000*				45.0	77.1	20,000*				55.0	74.5	16,970*			
38.0	76.2	24,000*				45.0	75.2	24,000*				50.0	75.0	20,000*				60.0	72.5	15,630*	60.0	79.5	9,100*
40.0 <b>45.0</b>	75.2 <b>72.7</b>	24,000* <b>24,000</b> *	40.0 <b>45.0</b>	79.5 <b>77.0</b>	21,000* <b>21,000</b> *	50.0 <b>55.0</b>	72.9 <b>70.4</b>	24,000* <b>23,890</b> *	50.0 <b>55.0</b>	78.2 <b>75.6</b>	14,810* <b>14,020</b> *	55.0 <b>60.0</b>	72.7 <b>70.5</b>	19,550* <b>18,000</b> *	55.0 <b>60.0</b>	78.9 <b>76.7</b>	11,300* <b>10,730</b> *	65.0 <b>70.0</b>	70.5 <b>68.4</b>	14,460* <b>13,470</b> *	65.0 <b>70.0</b>	77.4 <b>75.3</b>	8,660* <b>8,240</b> *
50.0	70.2	24,000*	50.0	74.4	20,100*	60.0	68.1	22,020*	60.0	73.2	13,330*	65.0	68.3	16,730*	65.0	74.4	10,250*	75.0	66.1	12,520*	75.0		7,870*
55.0	67.5	24,000*	55.0	71.6	19,020*	65.0	65.6	20,410*	65.0	70.7	12,760*	70.0	66.1	15,580*	70.0	72.0	9,780*	80.0	64.0	11,770*	80.0	70.7	7,530*
60.0 <b>65.0</b>	64.9 <b>62.2</b>	24,000* <b>22,660</b>	60.0 <b>65.0</b>	68.9 <b>66.1</b>	18,120* <b>17,320</b> *	70.0 <b>75.0</b>	63.2 <b>60.4</b>	19,040* <b>17,760</b> *	70.0 <b>75.0</b>	68.1 <b>65.3</b>	12,230* <b>11,720</b> *	75.0 <b>80.0</b>	63.6 <b>61.3</b>	14,520* <b>13,660</b> *	75.0 <b>80.0</b>	69.5 <b>67.0</b>	9,360* <b>8,990</b> *	85.0 <b>90.0</b>	61.8 <b>59.5</b>	11,080* <b>10,470</b> *	85.0 <b>90.0</b>	68.4 <b>66.0</b>	7,230* <b>6,960</b> *
70.0	59.4	20,540	70.0	63.3	16,620*	80.0	57.8	16,730*	80.0	62.5	11,300*	85.0	58.8	12,890*	85.0	64.5	8,680*	95.0	57.1	9,890*	95.0	63.4	6,700*
75.0	56.4	18,620	75.0	60.2	15,960*	85.0	55.1	15,800*	85.0	59.7	10,930*	90.0	56.3	12,210*	90.0	61.8	8,370*	100.0		9,390*	100.0	60.9	6,480*
80.0 <b>85.0</b>	53.5 <b>50.4</b>	17,080 <b>15,760</b>	80.0 <b>85.0</b>	57.1 <b>53.9</b>	15,430* <b>14,940</b> *	90.0 <b>95.0</b>	52.3 <b>49.1</b>	14,740 <b>13,620</b>	90.0 <b>95.0</b>	56.7 <b>53.4</b>	10,580* <b>10,270</b> *	95.0 <b>100.0</b>	53.6 <b>50.9</b>	11,570* <b>11,020</b> *	95.0 <b>100.0</b>	58.9 <b>56.1</b>	8,110* <b>7,870</b> *	105.0 <b>110.0</b>	52.2 <b>49.6</b>	8,950* <b>8,550</b> *	105.0 <b>110.0</b>	58.3 <b>55.5</b>	6,280* <b>6,100</b> *
90.0	<b>50.4</b> 47.1	1 <b>5,760</b> 14,570	00.0	ეა.ჟ	14,540	100.0	<b>49.1</b> 46.0	12,690	90.0	20.4	10,210	100.0	48.0	10,530*	100.0	53.1	7,640*	115.0		8,150*	115.0	<b>52.4</b>	5,930*
95.0	43.4	13,470				105.0	42.7	11,860				110.0	45.1	10,070*			- /-	120.0	43.8	7,820*			-,
100.0	39.7	12,540				110.0	39.1	11,080				115.0	41.7	9,650*				125.0		7,530*			
105.0	35.6	11,700				115.0	35.0	10,360				<b>120.0</b> 125.0	<b>38.2</b> 34.4	<b>9,300*</b> 8,970*				<b>130.0</b> 135.0		<b>7,270</b> * 7,010*			
Rea	ves	1	Ree	eves	1	Ree	ves	1	Ree	ves	1	Ree		1	Ree	ves	1	Ree		1	Ree	ves	1

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	100	)' Boo	m																				
			t <b>J</b> ib						t <b>J</b> ib						t <b>J</b> ib						t <b>J</b> ib		
	10	O set An	igle (d	leg.) 30			10	O set An	igle (d	eg.) 30			10	O set An	igle (d	eg.) 30			10	O set An	gle (d	eg.) 30	
Load Padius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Pated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Pated Load	Load Padius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Padius	Boom Angle	Rated Load
(ft) 32.0 34.0 36.0 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0	79.9 79.0 78.1 77.2 76.4 74.1 71.8 69.3 67.0 64.5 62.1 59.4 56.7 54.0 51.2 48.1 45.0 38.1 34.0	(lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 15,520 14,320 13,220 12,270 11,460 10,690 9,980	45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	78.0 75.7 73.2 70.7 68.2 65.7 62.9 60.2 57.4 54.5 51.2	21,000* 20,650* 19,570* 18,690* 17,190* 16,510* 15,450* 14,570 13,420	(f) 36.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 120.0 125.0	(deg.) 80.0 79.2 78.4 76.3 74.2 71.9 69.7 67.5 65.3 62.8 60.4 58.0 55.5 52.8 50.1 47.2 44.3 40.9 37.4 33.7	(lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 23,280* 21,620* 20,190* 18,620 17,060 15,710 14,500 13,380 12,450 11,590 10,840 10,110 9,470 8,860*	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.1 76.7 74.5 <b>72.2</b> 69.9 <b>67.3</b> 64.9 <b>62.4</b> 59.8 <b>56.9</b> 54.0	15,100* 14,320* 13,660* 13,090* 12,560* 12,050* 11,640* 10,910* 10,580* 10,310*	(f) 40.0 45.0 50.0 65.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 130.0 135.0	79.9 78.0 76.0 73.9 71.9 69.9 67.8 65.6 63.4 61.2 59.0 56.5 54.1 49.0 49.0 43.2 40.2 36.8 33.2	(lbs) 20,000* 20,000* 20,000* 20,000* 18,930* 17,590* 16,420* 15,340* 12,910* 12,230* 11,150* 10,670* 10,200* 9,590 9,010 8,480 7,800*	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.7 77.7 75.5 73.4 71.1 68.8 66.5 64.2 61.6 59.1 56.4 53.7	11,500* 10,950* 10,470* 10,030* 9,610* 9,230* 8,920* 8,610* 8,330* 8,090* 7,870* 7,690*	45.0 45.0 60.0 65.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 135.0 140.0 145.0	79.3 77.5 75.5 73.7 71.8 69.9 67.8 65.8 61.7 59.5 57.3 55.1 42.3 39.4 43.5 9.5 32.4	(lbs) 18,000* 18,000* 17,720* 16,350* 15,160* 14,130* 13,160* 12,360* 11,040* 10,420* 9,920* 9,450* 9,030* 8,610* 8,280* 7,950* 7,670* 7,400* 7,140* 6,810*	65.0 70.0 75.0 80.0 85.0 95.0 100.0 115.0 120.0	78.3 76.3 74.2 72.1 70.0 65.5 63.2 60.9 55.7 53.1	8,810* 8,420* 8,040* 7,710* 7,420* 7,160* 6,670* 6,450* 6,100* 5,950*
- Por	eves	1	Por	eves	1	Poo	ves	1	Poo	eves	1	Ree	1100	1	Poo	ves	1	Por	eves	1	Pos	ves	1
nec		)' Boo		ves	'	nec	ves	•	nec	ves		nec	ves	'	nec	ves	'	nec	ves	<u>'</u>	nec	ves	'
	110		t Jib					10.1	t <b>J</b> ib						r. Fl.								
	(	O set An						401						יוור.	T.IID					60 1	t.lih		
Lood	10		igie (a	leg.)			(	3 set An		leg.)			(	) set An	t Jib ngle (d	eg.)			(	60 t D set An	t Jib gle (d	eg.)	
Load Padius (ft)	Boom Angle			30		Land	10	O set An	gle (d	30	Dutad	land	10	) set An	gle (d	30		Land	10	O set An	gle (d	30	Dated
34.0	(deg.)	Rated Load (lbs)	Load Radius (ft)	<u> </u>	Pated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	Pated Load (lbs)		30 Boom	Rated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	Pated Load (lbs)		<u> </u>	Pated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	Pated Load (lbs)			Pated Load (lbs)
36.0 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 1105.0 115.0 125.0	79.8 79.0 78.2 77.3 75.3 73.2 70.9 68.7 66.5 64.3 61.8 59.4 57.0 54.5 51.8 49.1 46.3 39.9 36.5	Rated Load	Load Padius (ft)	79.0 76.8 74.5 72.2 70.0 67.7 65.1 62.7 60.2 57.6 54.8	Pated Load (lbs)	Radius	79.9 79.2 77.2 75.3 73.2 69.1 64.8 62.7 60.5 58.2 45.3 42.5 39.4 36.1	Pated Load	gle (d Load Radius	30 Boom Angle (deg.) 79.9 77.7 75.6 73.5 71.4 69.1 66.9 64.6	Load	Radius	10 Boom Angle	Pated Load	Igle (d Load Radius	78.5 76.5 74.6 72.4 70.4 68.3 66.1 63.8 61.5 59.2 56.7	Rated Load	<b>Padius</b>	70 Boom Angle (deg.) 80.0 78.3 76.4 74.7 72.9 71.1 69.2 67.3 65.5 55.4 53.1 50.9 48.6 46.2 43.6 40.8 37.9	Rated Load	Load Radius (ft)	30 Boom Angle	Load

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	120	)' Boo	m																				
		30 t	t Jib						t Jib						t <b>J</b> ib						ft <b>J</b> ib		
		O set Ar	gle (d	<u> </u>				O set Ar	igle (d	<u> </u>				O set An	igle (d					O set Ar	ngle (a		
Load	10 Boom	Rated	Load	30 Boom	Pated	Load	10 Boom	Pated	Load	30 Boom	Rated	Load	10 Boom	Pated	Load	30 Boom	Rated	Load	10 Boom	Pated	Load	30 Boom	Rated
Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)		Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Padius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Padius (ft)		Load (lbs)
36.0 <b>38.0</b>	79.7 <b>79.0</b>	24,000* <b>24,000</b> *				40.0 <b>45.0</b>	79.9 <b>78.1</b>	24,000* <b>24,000</b> *				45.0 <b>50.0</b>	79.5 <b>77.7</b>	20,000* <b>20,000</b> *				50.0 <b>55.0</b>	78.9 <b>77.2</b>	18,000* <b>18,000</b> *			
40.0	78.2	24,000*				50.0	76.2	24,000*				55.0	75.9	20,000*				60.0	75.5	17,720*			
45.0	76.3	24,000*	45.0	79.7	21,000*	55.0	74.3	24,000*	55.0	78.5	14,880*	60.0	74.2	20,000*	60.0	79.2	11,330*	65.0	73.9	16,460*	65.0	79.7	9,080*
50.0	74.3	24,000*	50.0	77.7	21,000*	60.0	72.4	24,000*	60.0	76.6	14,240*	65.0	72.4	19,240*	65.0	77.4	10,860*	70.0	72.2	15,380*	70.0	78.0	8,700*
<b>55.0</b> 60.0	<b>72.2</b> 70.2	<b>24,000*</b> 24,000*	<b>55.0</b> 60.0	<b>75.6</b> 73.5	<b>20,560*</b> 19,680*	<b>65.0</b> 70.0	<b>70.5</b> 68.6	<b>22,240</b> 20,100	<b>65.0</b> 70.0	<b>74.7</b> 72.7	<b>13,690</b> * 13,160*	<b>70.0</b> 75.0	<b>70.6</b> 68.7	<b>18,010</b> * 16,840*	<b>70.0</b> 75.0	<b>75.6</b> 73.6	<b>10,420*</b> 10,030*	<b>75.0</b> 80.0	<b>70.4</b> 68.7	<b>14,390*</b> 13,550*	<b>75.0</b> 80.0	<b>76.1</b>	<b>8,350</b> * 8,040*
65.0	68.2	21,970	65.0	71.4	18,910*	75.0	66.5	18,160	75.0	70.6	12,670*	80.0	66.8	15,890*	80.0	71.7	9,670*	85.0	67.0	12,780*	85.0	74.4 <b>72.6</b>	7,730*
70.0	66.1	19,860	70.0	69.3	18,180*	80.0	64.5	16,620	80.0	68.5	12,250*	85.0	65.0	15,030*	85.0	69.7	9,340*	90.0	65.2	12,120*	90.0	70.7	7,470*
75.0	63.9	17,940	75.0	67.0	17,500*	85.0	62.5	15,250	85.0	66.4	11,860*	90.0	63.1	14,190	90.0	67.8	9,060*	95.0	63.3	11,480*	95.0	68.7	7,230*
80.0 <b>85.0</b>	61.7 <b>59.5</b>	16,400 <b>15,050</b>	80.0 <b>85.0</b>	64.8 <b>62.6</b>	16,790 <b>15,410</b>	90.0 <b>95.0</b>	60.5 <b>58.2</b>	14,040 <b>12,910</b>	90.0 <b>95.0</b>	64.3 <b>62.0</b>	11,500* <b>11,170</b> *	95.0 <b>100.0</b>	61.0 <b>59.0</b>	13,050 <b>12,100</b>	95.0 <b>100.0</b>	65.6 <b>63.6</b>	8,770* <b>8,500</b> *	100.0 <b>105.0</b>	61.5 <b>59.6</b>	10,930* <b>10,420</b> *	100.0 <b>105.0</b>	66.8 <b>64.9</b>	7,010* <b>6,790</b> *
90.0	57.3	13,860	90.0	60.2	14,170	100.0	56.0	11,970	100.0	59.7	10,860*	105.0	57.0	11,260	105.0	61.4	8,280*	110.0	57.7	9,960*	110.0	62.9	6,610*
95.0	54.8	12,740	95.0	57.7	13,020	105.0	53.8	11,130	105.0		10,600*	110.0	54.9	10,490	110.0	59.3	8,060*	115.0	55.6	9,520*	115.0	60.7	6,410*
100.0	52.4	11,790	100.0	55.2	12,050	110.0	51.5	10,360	110.0	55.0	10,360*	115.0	52.6	9,740	115.0	56.8	7,870*	120.0	53.6	9,140*	120.0	58.6	6,260*
<b>105.0</b> 110.0	<b>49.9</b> 47.3	<b>10,950</b> 10,200	105.0	52.6	11,170	<b>115.0</b> 120.0	<b>48.9</b> 46.5	<b>9,630</b> 8,990	115.0	52.3	9,870	<b>120.0</b> 125.0	<b>50.4</b> 48.1	<b>9,100</b> 8,530	<b>120.0</b> 125.0	<b>54.5</b> 52.1	<b>7,690</b> * 7,530*	<b>125.0</b> 130.0	<b>51.5</b> 49.3	<b>8,610</b> 8,060	<b>125.0</b> 130.0	<b>56.4</b> 54.1	<b>6,100</b> * 5,970*
115.0	44.4	9,470				125.0	43.8	8,420				130.0	45.6	8,000	.23.0	52.1	,,550	135.0	47.1	7,580	135.0		5,860*
120.0	41.6	8,860				130.0	41.1	7,890				135.0	43.1	7,510				140.0	44.6	7,090			
125.0	38.5	8,280 7,600*				135.0	38.1	7,420 6.700*				140.0	40.3	<b>7,030</b> 6,540*				145.0	42.2	6,670			
130.0 <b>135.0</b>	35.2 <b>31.6</b>	7,690* <b>6,830</b> *				140.0	34.7	6,700*				145.0 <b>150.0</b>	37.4 <b>34.3</b>	5,880*				150.0 <b>155.0</b>	39.6 <b>36.8</b>	6,300 <b>5,730</b> *			
	0.110	,,,,,,											00	0,000				160.0	33.6	5,090*			
<u> </u>		1	Doo	ves	1	Ree		1	Dod	eves	1	Doo	ves	1	Doo	ves	1	Dog	eves	1	Doc	ves	1
I Haa																			, 403				
Ree		-		ves	'			•			· ·	1.50	100				-						
Hee		)' Boo	m	ves							•	150			ft lib		-			60:	ft lih		
Hee	130	)' Boo	<b>m</b> t Jib		'			401	ft Jib					501	ft Jib				(		ft Jib		
Hee	130	30 to Set Ar	<b>m</b> t Jib					40 t O set Ar	ft Jib					50 t O set An					10	O set Ar			
Load Radius (ft)	130	30 to Set Ar	<b>m</b> t Jib	eg.) 30 Boom		Load Padius (ft)	(	40 t O set Ar	ft Jib	leg.) 30 Boom Angle		Load Radius (ft)	(	50 t O set An		eg.)		Load Padius (ft)		O set Ar		leg.) 30 Boom	Pated Load (lbs)
Load Radius	130 10 Boom Angle	Pated Load (lbs) 24,000*	ft Jib gle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Padius	10 Boom Angle	A0 to 20 set Arr	ft Jib ngle (d Load Padius	leg.) 30 Boom	Rated Load	Load Padius	10 Boom Angle	50 t O set An Pated Load	Igle (d Load Radius	eg.) 30 Boom Angle	Pated Load	Radius	Boom Angle	Pated Load (lbs) 18,000*	Load Radius	leg.) 30 Boom Angle	Rated Load
Load Padius (ft) 38.0 40.0	130 10 Boom Angle (deg.) 79.7 79.0	30 t 30 t 20 set Ar Rated Load (lbs) 24,000* 24,000*	ft Jib gle (d Load Radius	eg.) 30 Boom Angle	Rated Load	Load Radius (ft) 45.0 <b>50.0</b>	78.8 77.1	## Add to Compare the Compare	t Jib ngle (d Load Radius (ft)	Jeg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 45.0 50.0	10 Boom Angle (deg.) 80.0 78.4	50 t D set And Load (lbs) 20,000* 20,000*	Igle (d Load Radius	eg.) 30 Boom Angle	Pated Load	### Solution	10 Boom Angle (deg.) 79.5 77.9	Rated Load (lbs) 18,000* 18,000*	Load Radius	leg.) 30 Boom Angle	Rated Load
Load Padius (ft) 38.0 40.0 45.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1	7 Set Ar Pated Load (lbs) 24,000* 24,000* 24,000*	ft Jib ogle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 45.0 50.0 55.0	78.8 77.1 75.2	## April ##	ft Jib ngle (d Load Padius	Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 45.0 50.0 55.0	80.0 78.4 76.7	50 t O set And Pated Load (lbs) 20,000* 20,000* 20,000*	Load Padius (ft)	eg.) 30 Boom Angle (deg.)	Pated Load (lbs)	Fadius (ft) 50.0 55.0 60.0	79.5 76.3	Pated Load (lbs) 18,000* 18,000*	Load Radius	leg.) 30 Boom Angle	Rated Load
Load Padius (ft) 38.0 40.0 45.0 50.0 55.0	130 10 Boom Angle (deg.) 79.7 79.0 77.1 75.3 73.4	30 to	Et Jib gle (d Load Radius (ft)  50.0 55.0	eg.) 30 Boom Angle (deg.) 78.5 76.5	Rated Load (lbs)  21,000* 20,980*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	78.8 77.1 75.2 73.5 71.7	### April	Load Radius (ft)  55.0 60.0 65.0	79.3 75.7	Rated Load (lbs)  15,100* 14,500* 13,930*	Load Padius (ft) 45.0 50.0 60.0 65.0	80.0 78.4 76.7 75.1 73.4	50 t Set And Pated Load (lbs)  20,000* 20,000* 20,000* 20,000* 20,000* 20,000*	Load Radius (ft) 60.0 65.0	eg.) 30 Boom Angle (deg.) 79.9 78.2	Rated Load (lbs)  11,480* 11,020*	50.0 55.0 60.0 65.0 70.0	79.5 77.9 76.3 74.8 73.2	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000*	Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Pated Load (lbs)
Load Padius (ft) 38.0 40.0 45.0 50.0 60.0	130 100 100 100 100 100 100 100	7 Eoo 30 to	Load Radius (ft)  50.0 60.0	eg.) 30 Boom Angle (deg.) 78.5 76.5 74.6	Pated Load (lbs)  21,000* 20,980* 20,120*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0 70.0	78.8 77.1 75.2 73.5 71.7 69.9	### April	Et Jib ogle (d Radius (ft)  55.0 60.0 65.0 70.0	79.3 77.5 73.8	Rated Load (lbs)  15,100* 14,500* 13,930* 13,420*	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0	80.0 78.4 76.7 75.1 73.4 71.7	750 ft Set And Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760*	Load Radius (ft)  60.0 65.0 70.0	eg.) 30 Boom Angle (deg.) 79.9 78.2 76.5	Rated Load (lbs)  11,480* 11,020* 10,620*	50.0 55.0 60.0 65.0 70.0 75.0	79.5 77.9 76.3 74.8 73.2 71.5	Rated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960*	Load Padius (ft) 70.0 75.0	800 Boom Angle (deg.) 78.7 76.9	### Rated Load (lbs)  8,840*  8,480*
Load Padius (ft) 38.0 40.0 45.0 50.0 55.0	130 10 Boom Angle (deg.) 79.7 79.0 77.1 75.3 73.4	30 to	Et Jib gle (d Load Radius (ft)  50.0 55.0	eg.) 30 Boom Angle (deg.) 78.5 76.5	Rated Load (lbs)  21,000* 20,980*	Load Radius (ft) 45.0 50.0 55.0 60.0 65.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0	### April	Load Radius (ft)  55.0 60.0 65.0	79.3 77.5 75.7 73.8 71.8	Rated Load (lbs)  15,100* 14,500* 13,930*	Load Padius (ft) 45.0 50.0 60.0 65.0	80.0 78.4 76.7 75.1 73.4	50 t Set And Pated Load (lbs)  20,000* 20,000* 20,000* 20,000* 20,000* 20,000*	Load Radius (ft) 60.0 65.0	eg.) 30 Boom Angle (deg.) 79.9 78.2	Rated Load (lbs)  11,480* 11,020*	50.0 55.0 60.0 65.0 70.0	79.5 77.9 76.3 74.8 73.2	Rated Load (lbs) 18,000* 18,000* 18,000* 17,100* 16,000*	Load Radius (ft)	78.7 76.9	Pated Load (lbs)
Load Radius (ft) 38.0 40.0 45.0 50.0 65.0 70.0 75.0	130 100 100 100 100 100 100 100	7 Set Ar Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680	ft Jib gle (d Load Radius (ft) 50.0 55.0 60.0 75.0	78.5 76.5 74.6 72.7 70.7 68.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960*	Load Radius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 85.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3	## April 19	55.0 60.0 65.0 75.0 80.0 85.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0	Rated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140*	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 17,570* 16,530 15,160	Constant Con	eg.) 30 Boom Angle (deg.) 79.9 78.2 76.5 74.6 72.8 71.0	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540*	75.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6	Pated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630*	Toda Radius (ft)  70.0  75.0  80.0  85.0  90.0	78.7 76.9 73.6 71.9	Rated Load (lbs)  8,840* 8,480* 8,170* 7,890* 7,620*
Load Radius (ft) 38.0 40.0 55.0 60.0 65.0 70.0 75.0 80.0	130 100 Boom Angle (deg.) 79.7 79.0 77.1 75.3 73.4 71.5 69.6 67.7 65.6 63.7	7 Set Ar Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680 16,130	## Jib ggle (d Radius (ft)   50.0   55.0   60.0   75.0   75.0   80.0	eg.) 30 Boom Angle (deg.) 78.5 76.5 74.6 72.7 70.7 68.6 66.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600	Load Radius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4	## April 10 Set Ar	55.0 60.0 65.0 75.0 80.0 85.0 90.0	79.3 77.5 75.7 73.8 71.8 69.9 68.0 66.1	Rated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140* 11,770*	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 64.7	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 17,570* 16,530 15,160 13,950	60.0 65.0 70.0 85.0 90.0	eg.) 30 Boom Angle (deg.) 79.9 78.2 76.5 74.6 72.8 71.0 69.2	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230*	75.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8	Pated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630* 11,970*	70.0 75.0 80.0 90.0 95.0	78.7 76.9 75.3 76.9 70.0	Rated Load (lbs)  8,840* 8,480* 8,170* 7,890* 7,620* 7,360*
Load Radius (ft) 38.0 40.0 45.0 50.0 65.0 70.0 75.0	130 100 100 100 100 100 100 100	7 Set Ar Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 21,730 19,620 17,680	ft Jib gle (d Load Radius (ft) 50.0 55.0 60.0 75.0	78.5 76.5 74.6 72.7 70.7 68.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960*	Load Radius (ft) 45.0 50.0 55.0 60.0 75.0 80.0 85.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4	## April 19	55.0 60.0 65.0 75.0 80.0 85.0	79.3 77.5 75.7 73.8 68.0 66.1 63.9	Rated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 12,140*	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 18,760* 17,570* 16,530 15,160	Constant Con	eg.) 30 Boom Angle (deg.) 79.9 78.2 76.5 74.6 72.8 71.0	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540*	75.0 50.0 55.0 60.0 70.0 75.0 80.0 85.0 90.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6	Pated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630*	Toda Radius (ft)  70.0  75.0  80.0  85.0  90.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3	Rated Load (lbs)  8,840* 8,480* 8,170* 7,890* 7,620*
Load Radius (ft) 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 90.0	130 100 100 100 100 100 100 100	7 Set Ar Paled Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 11,730 19,620 17,680 16,130 14,790 13,600 12,470	## Control	78.5 76.5 74.6 72.7 70.7 68.6 66.6 64.5 62.4 60.1	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 12,780	Load Padius (ft) 45.0 50.0 65.0 65.0 70.0 88.0 99.0 95.0 100.0	78.8 77.1 75.2 73.5 69.9 66.2 64.3 62.4 60.3 58.3 56.3	## April 10   Pated Load (lbs)   24,000*   24,000*   24,000*   22,000   19,860   17,920   16,350   14,990   13,800   12,650   11,700   10,860	Load Radius (ft)  55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0	79.3 77.5 73.8 69.9 68.0 66.1 63.9 59.8	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,410* 11,130* 10,860*	Load Radius (ft) 45.0 50.0 65.0 66.0 70.0 88.0 95.0 100.0 105.0	76.7 75.1 75.1 76.9 68.2 66.5 64.7 62.8 61.0 59.1	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 11,7570* 16,530 11,160 13,950 11,860 11,000	60.0 65.0 70.0 85.0 90.0 95.0 100.0 105.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4	### Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950* 8,700* 8,480*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	700 Boom Angle (deg.) 79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 11,3330* 11,970* 11,410* 10,890* 10,310	70.0 75.0 80.0 95.0 100.0 110.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 64.6	8,840* 8,480* 8,170* 7,620* 7,140* 6,940* 6,740*
Load Radius (ft) 38.0 40.0 45.0 50.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0	130 100 100 100 100 100 100 100	Pated Load (lbs)  24,000* 24,000* 24,000* 24,000* 24,000* 21,7680 11,680 11,790 13,600 12,470 11,530	100.00 10	78.5 76.5 74.6 72.7 70.7 68.6 66.6 64.5 62.4 60.1 57.9	21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 80.0 85.0 90.0 95.0 100.0 110.0	78.8 77.1 75.2 73.5 71.7 69.9 66.2 64.3 62.4 60.3 58.3 56.3 54.2	## April 10 Set Ar	Load Radius (ft)  55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 110.0	79.3 77.5 73.8 69.9 66.1 63.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,410* 11,130* 10,860* 10,420	Load Radius (ft) 45.0 50.0 55.0 60.0 70.0 88.0 99.0 99.0 100.0 110.0	76.7 75.1 76.7 75.1 76.7 76.7 75.1 76.9 68.2 66.5 64.7 62.8 61.0 59.1 57.2	Fated Load (lbs) 20,000* 20,000* 20,000* 20,000* 11,570* 16,530 15,160 13,950 11,860 11,000 10,220	60.0 65.0 70.0 85.0 90.0 95.0 100.0 110.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4 61.4	### Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950* 8,700* 8,480* 8,260*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7	Pated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 11,3330* 11,970* 11,410* 10,890* 10,310 9,560	70.0 75.0 85.0 90.0 95.0 100.0 115.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 64.6 62.6	8,840* 8,480* 8,170* 7,620* 7,140* 6,940* 6,740* 6,560*
Load Radius (ft) 38.0 40.0 45.0 50.0 60.0 65.0 70.0 75.0 80.0 90.0	130 100 100 100 100 100 100 100	7 Set Ar Paled Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 11,730 19,620 17,680 16,130 14,790 13,600 12,470	## Control	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 16,600 15,180 13,950 12,780	Load Padius (ft) 45.0 50.0 65.0 65.0 70.0 88.0 99.0 95.0 100.0	78.8 77.1 75.2 73.5 71.7 69.9 66.2 64.3 62.4 60.3 58.3 56.3 54.2 51.9	## April 10   Pated Load (lbs)   24,000*   24,000*   24,000*   22,000   19,860   17,920   16,350   14,990   13,800   12,650   11,700   10,860	Load Radius (ft)  55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,410* 11,130* 10,860*	Load Radius (ft) 45.0 50.0 65.0 66.0 70.0 88.0 95.0 100.0 105.0	76.7 75.1 75.1 76.7 76.7 75.1 76.9 68.2 66.5 64.7 62.8 61.0 59.1	Pated Load (lbs) 20,000* 20,000* 20,000* 20,000* 11,7570* 16,530 11,160 13,950 11,860 11,000	60.0 65.0 70.0 85.0 90.0 95.0 100.0 105.0	79.9 78.2 76.5 74.6 72.8 71.0 69.2 67.2 65.3 63.4	### Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,950* 8,700* 8,480*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	700 Boom Angle (deg.) 79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6	Rated Load (lbs) 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 11,3330* 11,970* 11,410* 10,890* 10,310	70.0 75.0 80.0 95.0 100.0 110.0	78.7 76.9 77.3 76.9 70.0 68.3 66.5 64.6 62.6 60.7	8,840* 8,480* 8,170* 7,620* 7,140* 6,940* 6,740*
Load Radius (ft) 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0	130 100 100 100 100 100 100 100	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 21,708 11,680 11,790 13,600 12,470 11,530 10,690 9,940 9,210	Load Radius (ft)   Load Radius (ft)	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810 10,950	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 80.0 95.0 100.0 115.0 115.0 120.0 125.0	78.8 77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 60.3 58.3 56.3 54.2 51.9 49.7 47.4	## Act of Control of C	Load Padius (ft)  55.0 60.0 65.0 70.0 95.0 100.0 115.0 115.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 115.0 120.0 125.0	70.7 80.0 80.0 78.4 71.7 75.1 73.4 71.7 69.9 68.2 66.5 64.8 61.0 57.2 55.1 53.1 51.0	## Pated Load (lbs)   20,000*   20,000*   20,000*   17,570*   16,530   11,860   11,000   11,860   11,000   10,220   9,470   8,840   8,260	Gle (d Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0	79.9 78.2 76.5 74.6 72.8 71.0 65.3 63.4 61.4 59.2 57.1 54.9	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,480* 8,260* 8,040* 7,870* 7,710*	### Redius (ft)   50.0   55.0   60.0   65.0   70.0   75.0   80.0   90.0   95.0   110.0   115.0   120.0   125.0   130.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0	Pated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 11,4960* 11,410* 10,890* 10,310 9,560 8,920 8,350 7,820	70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 130.0	78.7 76.9 77.0 76.9 77.0 68.3 66.5 64.6 62.6 60.7 58.7 56.6	8,840* 8,840* 8,480* 8,170* 7,620* 7,360* 7,140* 6,940* 6,740* 6,560* 6,390* 6,230* 6,100*
Load Radius (ft) 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 1120.0	130 100 100 100 100 100 100 100	Pated Load (lbs)  24,000* 24,000* 24,000* 24,000* 24,000* 21,7680 11,630 11,790 13,600 12,470 11,530 10,690 9,940 9,210 8,570	Load Radius (ft)   Load Radius (ft)	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810 10,950	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 85.0 995.0 1100.0 115.0 125.0 130.0	75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 60.3 55.3 55.3 55.3 51.9 49.7 47.4 45.0	## Act of Control of C	Load Padius (ft)  55.0 60.0 65.0 70.0 95.0 100.0 115.0 115.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 115.0 125.0 130.0	700 Boom Angle (deg.) (80.0 78.4 76.7 75.1 73.4 71.7 69.9 68.2 66.5 62.8 66.5 75.1 55.1 55.1 51.0 48.8	## Pated Load (lbs)	Load   Padius (ft)	79.9 78.2 76.5 74.6 72.8 71.0 667.2 663.3 61.4 59.2 57.1 54.9	### Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,480* 8,260* 8,040* 7,870*	Fadius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 133.0 135.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 66.6 66.8 63.1 61.4 59.6 57.7 55.9 52.0 50.0	Pated Load (lbs)  18,000* 18,000* 17,100* 16,000* 14,960* 11,970* 11,410* 10,890* 10,310 9,560 8,920 8,350 7,820 7,310	70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 135.0 135.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 60.7 58.7 56.6 54.5	8,840* 8,840* 8,480* 8,170* 7,890* 7,620* 7,140* 6,940* 6,740* 6,560* 6,390* 6,230* 6,100* 5,970*
Load Radius (ft) 38.0 40.0 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0	130 100 100 100 100 100 100 100	Pated Load (lbs) 24,000* 24,000* 24,000* 24,000* 24,000* 21,708 11,680 11,790 13,600 12,470 11,530 10,690 9,940 9,210	Load Radius (ft)   Load Radius (ft)	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810 10,950	Load Padius (ft) 45.0 50.0 55.0 60.0 65.0 70.0 80.0 95.0 100.0 115.0 115.0 120.0 125.0	75.2 73.5 71.7 69.9 68.0 66.2 64.3 62.4 60.3 55.3 55.3 55.3 51.9 49.7 47.4 45.0	## Act of Control of C	Load Padius (ft)  55.0 60.0 65.0 70.0 95.0 100.0 115.0 115.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 55.0 60.0 65.0 75.0 80.0 85.0 90.0 110.0 115.0 120.0 125.0	70.7 80.0 80.0 78.4 71.7 75.1 73.4 71.7 69.9 68.2 66.5 64.8 61.0 57.2 55.1 53.1 51.0	## Pated Load (lbs)   20,000*   20,000*   20,000*   17,570*   16,530   11,860   11,000   11,860   11,000   10,220   9,470   8,840   8,260	Gle (d Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0	79.9 78.2 76.5 74.6 72.8 71.0 65.3 63.4 61.4 59.2 57.1 54.9	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,480* 8,260* 8,040* 7,870* 7,710*	### Redius (ft)   50.0   55.0   60.0   65.0   70.0   75.0   80.0   90.0   95.0   110.0   115.0   120.0   125.0   130.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0	Pated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 11,4960* 11,410* 10,890* 10,310 9,560 8,920 8,350 7,820	70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 130.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 60.7 58.7 56.6 54.5	8,840* 8,840* 8,480* 8,170* 7,620* 7,360* 7,140* 6,940* 6,740* 6,560* 6,390* 6,230* 6,100*
Load Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 125.0 135.0	130 100 100 100 100 100 100 100	7.500 7.	Load Radius (ft)   Load Radius (ft)	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810 10,950	Load Padius (ft) 45.0 50.0 65.0 65.0 75.0 80.0 85.0 95.0 110.0 125.0 130.0 135.0 140.0 145.0	78.8 (deg.) 78.8 (77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 56.3 56.3 54.2 45.0 42.5 39.6 36.8	## Act of Control of C	Load Padius (ft)  55.0 60.0 65.0 70.0 95.0 100.0 115.0 115.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 65.0 65.0 75.0 80.0 85.0 95.0 110.0 125.0 135.0 140.0 145.0	71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 55.1 55.1 55.1 48.8 46.6 44.1 41.7	## Pated Load (lbs)  20,000** 20,000** 20,000** 20,000** 10,570** 16,530* 11,860* 11,860* 11,000* 10,220* 9,470* 8,840* 8,260* 7,730* 7,250* 6,760* 6,340*	Gle (d Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0	79.9 78.2 76.5 74.6 72.8 71.0 65.3 63.4 61.4 59.2 57.1 54.9	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,480* 8,260* 8,040* 7,870* 7,710*	Fadius (ft) 50.0 55.0 60.0 65.0 770.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0 150.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 52.0 50.0 47.8 45.6 43.3	Pated Load (lbs) 18,000* 18,000* 18,000* 14,960* 14,100* 13,330* 12,630* 11,410* 10,890* 10,310 9,560 8,920 7,310 6,830 6,410 6,040	70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 135.0 135.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 60.7 58.7 56.6 54.5	8,840* 8,840* 8,480* 8,170* 7,890* 7,620* 7,140* 6,940* 6,740* 6,560* 6,390* 6,230* 6,100* 5,970*
Load Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 100.0 115.0 115.0 125.0 130.0	130 100 100 100 100 100 100 100	7.680 13,600 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 24,000* 17,680 16,130 14,790 13,600 12,470 11,530 10,690 9,940 9,210 8,570 8,020 7,490	Load Radius (ft)   Load Radius (ft)	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810 10,950	Load Radius (t) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 95.0 100.0 110.0 125.0 135.0 135.0 140.0	78.8 (deg.) 78.8 (77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 56.3 56.3 54.2 45.0 42.5 39.6 36.8	## Action	Load Padius (ft)  55.0 60.0 65.0 70.0 95.0 100.0 115.0 115.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 65.0 65.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 130.0 135.0 140.0 145.0 150.0	71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 55.1 55.1 53.1 48.8 46.6 44.1 41.7 39.1	## Pated Load (Ibs) 20,000* 20,000* 20,000* 20,000* 10,570* 16,530 15,160 13,950 12,800 11,860 11,020 9,470 8,840 8,260 7,730 7,250 6,760 6,340 5,860*	Gle (d Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0	79.9 78.2 76.5 74.6 72.8 71.0 65.3 63.4 61.4 59.2 57.1 54.9	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,480* 8,260* 8,040* 7,870* 7,710*	Fadius (ft) 50.0 55.0 60.0 65.0 770.0 775.0 80.0 85.0 90.0 105.0 115.0 120.0 135.0 140.0 145.0 155.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0 47.8 45.6 43.3 41.0	Pated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 14,100* 13,330* 12,630* 11,970* 11,410* 10,890* 10,310 9,560 8,920 7,310 6,830 6,410 6,040 5,620*	70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 135.0 135.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 60.7 58.7 56.6 54.5	8,840* 8,840* 8,480* 8,170* 7,890* 7,620* 7,140* 6,940* 6,740* 6,560* 6,390* 6,230* 6,100* 5,970*
Load Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 115.0 125.0 135.0	130 100 100 100 100 100 100 100	7.500 7.	Load Radius (ft)   Load Radius (ft)	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810 10,950	Load Padius (ft) 45.0 50.0 65.0 65.0 75.0 80.0 85.0 95.0 110.0 125.0 130.0 135.0 140.0 145.0	78.8 (deg.) 78.8 (77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 56.3 56.3 54.2 45.0 42.5 39.6 36.8	## Act of Control of C	Load Padius (ft)  55.0 60.0 65.0 70.0 95.0 100.0 115.0 115.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 65.0 65.0 75.0 80.0 85.0 95.0 110.0 125.0 135.0 140.0 145.0	71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 55.1 55.1 55.1 48.8 46.6 44.1 41.7	## Pated Load (lbs)  20,000** 20,000** 20,000** 20,000** 10,570** 16,530* 11,860* 11,860* 11,000* 10,220* 9,470* 8,840* 8,260* 7,730* 7,250* 6,760* 6,340*	Gle (d Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0 110.0 115.0 120.0	79.9 78.2 76.5 74.6 72.8 71.0 65.3 63.4 61.4 59.2 57.1 54.9	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,480* 8,260* 8,040* 7,870* 7,710*	Fadius (ft) 50.0 55.0 60.0 65.0 770.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0 150.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0 45.6 43.3 41.0 38.3	Pated Load (lbs) 18,000* 18,000* 18,000* 14,960* 14,100* 13,330* 12,630* 11,410* 10,890* 10,310 9,560 8,920 7,310 6,830 6,410 6,040	70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 135.0 135.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 60.7 58.7 56.6 54.5	8,840* 8,840* 8,480* 8,170* 7,890* 7,140* 6,940* 6,740* 6,390* 6,390* 6,100* 5,970*
Load Radius (ft) 38.0 40.0 45.0 55.0 60.0 65.0 75.0 80.0 95.0 100.0 110.0 125.0 135.0 140.0	130 100 100 100 100 100 100 100	7.500 7.	10.00 F5.0 F5.0 F5.0 F5.0 F5.0 F5.0 F5.0	78.5 76.5 74.6 66.6 64.5 62.4 60.1 57.9 55.6	Pated Load (lbs)  21,000* 20,980* 20,120* 19,350* 18,650* 17,960* 16,600 15,180 13,950 12,780 11,810 10,950	Load Padius (ft) 45.0 55.0 66.0 65.0 70.0 85.0 90.0 100.0 110.0 125.0 130.0 145.0 145.0 150.0	78.8 (deg.) 78.8 (77.1 75.2 73.5 71.7 69.9 68.0 66.2 64.3 56.3 56.3 54.2 45.0 42.5 39.6 36.8	## Act of Control of C	55.0 60.0 65.0 70.0 90.0 100.0 110.0 120.0	79.3 77.5 73.8 71.8 69.9 66.1 63.9 61.9 59.8 57.6	Pated Load (lbs)  15,100* 14,500* 13,930* 13,420* 12,940* 12,520* 11,140* 11,130* 10,860* 10,420 9,650	Load Radius (ft) 45.0 50.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 135.0 140.0 145.0 155.0	71.7 69.9 68.2 66.5 64.7 62.8 61.0 59.1 57.2 55.1 53.1 48.8 46.6 44.1 41.7 39.1 33.1	## Pated Load (Ibs)  20,000** 20,000** 20,000** 20,000* 10,570* 16,530 15,160 13,950 12,800 11,860 11,020 9,470 8,840 8,260 7,730 7,250 6,760 6,340 5,860* 5,260*	Gle (d Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 1120.0 1225.0 130.0	79.9 78.2 76.5 74.6 72.8 71.0 65.3 63.4 61.4 59.2 57.1 54.9	Pated Load (lbs)  11,480* 11,020* 10,620* 10,200* 9,850* 9,540* 9,230* 8,700* 8,480* 8,260* 8,040* 7,870* 7,710*	Padius (ft) 50.0 55.0 60.0 65.0 770.0 775.0 88.0 99.0 95.0 110.0 115.0 120.0 145.0 145.0 155.0 160.0 170.0	79.5 77.9 76.3 74.8 73.2 71.5 69.9 68.3 66.6 64.8 63.1 61.4 59.6 57.7 55.9 54.0 45.6 43.3 41.0 38.3	Pated Load (lbs)  18,000* 18,000* 18,000* 17,100* 16,000* 14,960* 11,410* 10,330* 11,970* 11,410* 10,890* 10,310 9,560 8,920 7,310 6,830 6,410 6,040 5,620* 5,040*	70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 1330.0 140.0	78.7 76.9 75.3 73.6 71.9 70.0 68.3 66.5 60.7 58.7 56.6 54.5	8,840* 8,840* 8,480* 8,170* 7,890* 7,620* 7,140* 6,940* 6,740* 6,560* 6,390* 6,230* 6,100* 5,970*

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

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			t Jib						t Jib						t Jib						ft <b>J</b> ib		
<u> </u>		O set An	gle (d					O set An	gle (d					) set An	gle (d					O set Ar	ngle (d		
Load Padius	Boom Angle	Rated Load	Load Radius		Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Pated Load	Load Radius	Boom Angle	Rated Load	Load Radius	Boom Angle	Rated Load	Load Padius	Boom Angle	Rated Load
40.0 <b>45.0</b>	79.6 <b>77.9</b>	(lbs) 24,000* <b>24,000</b> *	(ft)	(deg.)	(lbs)	45.0 <b>50.0</b>	79.4 <b>77.8</b>	(lbs) 24,000* <b>24,000</b> *	(ft)	(deg.)	(lbs)	50.0 <b>55.0</b>	79.1 77.4	( <i>lbs</i> ) 20,000* <b>20,000</b> *	(ft)	(deg.)	(lbs)	55.0 <b>60.0</b>	78.5 77.0	(lbs) 18,000* <b>18,000</b> *	(ft)	(deg.)	(lbs)
50.0 <b>55.0</b>	76.2 <b>74.4</b>	24,000* 24,000*	50.0 <b>55.0</b>	79.2 <b>77.4</b>	21,000* <b>21,000</b> *	55.0 <b>60.0</b>	76.1 <b>74.4</b>	24,000* 24,000*	55.0 <b>60.0</b>	79.9 <b>78.2</b>	15,320* <b>14,720</b> *	60.0 <b>65.0</b>	75.9 <b>74.3</b>	20,000* <b>20,000</b> *	65.0	78.8	11,170*	65.0 <b>70.0</b>	75.6 <b>74.1</b>	17,700* <b>16,570</b> *	70.0	79.3	8,950*
60.0 <b>65.0</b>	72.6 <b>70.9</b>	23,980 <b>21,450</b>	60.0 <b>65.0</b>	75.6 <b>73.8</b>	20,540* <b>19,770</b> *	65.0 <b>70.0</b>	72.8 <b>71.1</b>	21,730 <b>19,590</b>	65.0 <b>70.0</b>	76.5 <b>74.8</b>	14,170* <b>13,690</b> *	70.0 <b>75.0</b>	72.8 <b>71.1</b>	19,480* <b>17,850</b>	70.0 <b>75.0</b>	77.2 <b>75.5</b>	10,780* <b>10,380</b> *	75.0 <b>80.0</b>	72.5 <b>71.0</b>	15,520* <b>14,630</b> *	75.0 <b>80.0</b>	77.7 <b>76.1</b>	8,590* <b>8,310</b> *
70.0 <b>75.0</b>	69.1 <b>67.2</b>	19,330 <b>17,390</b>	70.0 <b>75.0</b>	72.0 <b>70.0</b>	19,060* <b>17,940</b>	75.0 <b>80.0</b>	69.3 <b>67.6</b>	17,650 <b>16,090</b>	75.0 <b>80.0</b>	72.9 <b>71.2</b>	13,180* <b>12,760</b> *	80.0 <b>85.0</b>	69.4 <b>67.8</b>	16,260 <b>14,880</b>	80.0 <b>85.0</b>	73.8 <b>72.1</b>	10,030* <b>9,720</b> *	85.0 <b>90.0</b>	69.4 <b>67.9</b>	13,840* <b>13,130</b> *	85.0 <b>90.0</b>	74.5 <b>72.9</b>	8,020* <b>7,760</b> *
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>	90.0	65.9 <b>64.1</b>	14,720 13,510	90.0	69.4 <b>67.6</b>	12,380* 12,030*	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* 11,680	95.0 <b>100.0</b>	71.2 <b>69.5</b>	7,510* <b>7,270</b> *
90.0 <b>95.0</b> 100.0	61.6 <b>59.5</b> 57.5	13,290 <b>12,160</b> 11,220	90.0 <b>95.0</b> 100.0	64.3 <b>62.2</b> 60.1	13,690 <b>12,540</b> 11,550	95.0 <b>100.0</b> 105.0	62.2 <b>60.3</b> 58.5	12,360 11,410 10,580	95.0 <b>100.0</b> 105.0	65.6 <b>63.7</b> 61.8	11,680* <b>11,370</b> * 10,970	100.0 <b>105.0</b> 110.0	62.7 <b>60.9</b> 59.2	11,570 <b>10,710</b> 9,940	100.0 <b>105.0</b> 110.0	66.8 <b>65.0</b> 63.2	8,880* <b>8,660</b> * 8,440*	105.0 110.0 115.0	63.0 <b>61.4</b> 59.6	10,820 <b>10,050</b> 9,300	105.0 110.0 115.0	67.8 <b>66.1</b> 64.3	7,070* <b>6,870</b> * 6,700*
<b>105.0</b> 110.0	<b>55.5</b> 53.4	<b>10,380</b> 9,630	<b>105.0</b> 110.0	<b>58.1</b> 55.9	<b>10,690</b> 9,890	<b>110.0</b> 115.0	<b>56.6</b> 54.5	<b>9,810</b> 9,060	<b>110.0</b> 115.0	<b>59.8</b> 57.6	<b>10,180</b> 9,410	<b>115.0</b> 120.0	<b>57.3</b> 55.4	<b>9,190</b> 8,550	<b>115.0</b> 120.0	<b>61.2</b> 59.3	<b>8,220</b> * 8,040*	<b>120.0</b> 125.0	<b>57.9</b> 56.1	<b>8,660</b> 8,060	<b>120.0</b> 125.0	<b>62.5</b> 60.7	<b>6,520*</b> 6,370*
115.0 120.0	<b>51.1</b> 48.9	<b>8,900</b> 8,260	<b>115.0</b> 120.0	<b>53.5</b> 51.3	<b>9,120</b> 8,480	120.0 125.0	<b>52.5</b> 50.4	<b>8,420</b> 7,840	<b>120.0</b> 125.0	<b>55.5</b> 53.4	<b>8,730</b> 8,130	<b>125.0</b> 130.0	<b>53.5</b> 51.6	<b>7,980</b> 7,450	<b>125.0</b> 130.0	<b>57.3</b> 55.3	<b>7,870</b> * 7,710*	130.0 135.0	<b>54.3</b> 52.5	<b>7,530</b> 7,030	130.0 135.0	<b>58.8</b> 56.9	<b>6,230</b> * 6,100*
<b>125.0</b> 130.0 <b>135.0</b>	<b>46.6</b> 44.2 <b>41.7</b>	<b>7,690</b> 7,180 <b>6,700</b>				130.0 135.0 140.0	<b>48.2</b> 46.0 <b>43.5</b>	<b>7,310</b> 6,830 <b>6,370</b>				<b>135.0</b> 140.0 <b>145.0</b>	<b>49.5</b> 47.3 <b>45.1</b>	<b>6,940</b> 6,450 <b>6,040</b>	135.0	53.1	7,250	140.0 145.0 150.0	<b>50.5</b> 48.5 <b>46.5</b>	<b>6,540</b> 6,120 <b>5,730</b>	<b>140.0</b> 145.0	<b>54.7</b> 52.7	<b>5,970</b> * 5,860*
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 <b>160.0</b>	35.7 <b>32.5</b>	4,690* <b>4,070</b> *				160.0 <b>165.0</b> 170.0	37.8 <b>35.1</b> 32.2	4,540* <b>4,010</b> * 3,500*				165.0 <b>170.0</b> 175.0	39.7 <b>37.3</b> 34.7	4,340* <b>3,880</b> * 3,410*			
Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree		3,300 <b>1</b>	Ree	ves	1		ves	3,410 <b>1</b>	Ree	ves	1
	150	)' Boo	m																				
	100		t Jib					40 t	t Jib					50 f	t Jib					60 1	ft lib		
	(	O set An		eg.)			(	O set An		\											UIU		
1000	10	Datasi		20				J SEL AII	gie (ui	eg.)			(	O set An	gle (d	eg.)			(	O set Ar		eg.)	
Load Padius (ft)	Boom Angle (deg.)	<i>Pated</i>	Land	30		Land	10		Ĺ	30		l and	10			30	Detect	l a a d	10	O set Ar	ngle (d	30	Detect
45.0 <b>50.0</b>	. 0,	Load (lbs)	Load Radius (ft)	Boom	Pated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)		Load Radius (ft)	<u> </u>	Pated Load (lbs)	Load Radius (ft)		Pated Load (lbs)	gle (de Load Padius (ft)	<u> </u>	Rated Load (lbs)	Load Padius (ft)				30 Boom	Pated Load (lbs)
55.0 60.0 65.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 155.0 160.0	78.6 77.0 75.3 73.6 72.0 70.3 68.5 66.8 65.1 63.3 65.7 55.8 53.7 51.7 49.6 47.5 49.6 47.5 37.8 40.3 37.8		Radius	79.9 78.1 76.4 74.8 73.1 71.2 69.5 67.7 65.9 63.9 62.1 60.2 58.2 56.1 54.0	Rated Load	Radius	Boom Angle	Pated Load	Load Radius	30 Boom Angle	Rated Load	<b>Padius</b>	70.5 65.8 64.2 62.0 59.1 57.4 46.0 43.9 441.6 39.3 36.8	Rated Load	Load Padius	30 Boom Angle	Load	Radius	10 Boom Angle	O set Ar  Rated Load	ngle (d Load Radius	30 Boom Angle	Load

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

	160	)' Boo	m																				
		30 t	t <b>J</b> ib					40 t	t Jib					50 t	t Jib					60 1	t Jib		
	(	O set Ar	gle (d	eg.)			(	O set An	igle (d	eg.)			(	O set Ar	igle (de	eg.)			(	O set Ar	igle (d	eg.)	
ļ.,,	10			30			10		ļ.,,	30			10			30			10		ļ.,,	30	5.1
Load Padius (ft)	Boom Angle (deg.)	Rated Load (Ibs)	Load Padius (ft)	Boom Angle (deg.)	Pated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	Pated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	Pated Load (lbs)
45.0	79.2	24,000*				50.0	79.0	24,000*				55.0	78.7	20,000*				55.0	79.6	18,000*			
<b>50.0</b> 55.0	<b>77.7</b> 76.1	<b>24,000*</b> 24,000*	55.0	78.8	21,000*	<b>55.0</b> 60.0	<b>77.5</b> 76.0	<b>24,000</b> * 24,000*	60.0	79.5	15,120*	<b>60.0</b> 65.0	<b>77.3</b> 75.9	<b>20,000*</b> 20,000*	65.0	80.0	11,440*	<b>60.0</b> 65.0	<b>78.3</b> 76.9	<b>18,000*</b> 18,000*			
60.0	74.5	23,720	60.0	77.2	21,000*	65.0	74.6	21,470	65.0	78.0	14,590*	70.0	74.5	19,530	70.0	78.5	11,060*	70.0	75.6	17,650*	70.0	80.4	9,140*
65.0	73.0	21,180	65.0	75.6	20,500*	70.0	73.1	19,310	70.0	76.4	14,100*	75.0	72.9	17,570	75.0	77.0	10,670*	75.0	74.1	16,570*	75.0	78.9	8,810*
<b>70.0</b> 75.0	<b>71.4</b> 69.7	<b>19,040</b> 17,100	<b>70.0</b> 75.0	<b>74.0</b> 72.3	<b>19,730</b> 17,720	<b>75.0</b> 80.0	<b>71.5</b> 70.0	<b>17,370</b> 15,780	<b>75.0</b> 80.0	<b>74.8</b> 73.2	<b>13,640</b> * 13,220*	<b>80.0</b> 85.0	<b>71.5</b> 70.1	<b>15,980</b> 14,590	<b>80.0</b> 85.0	<b>75.5</b> 74.0	<b>10,330</b> * 10,030*	<b>80.0</b> 85.0	<b>72.8</b> 71.4	<b>15,670</b> * 14,700	<b>80.0</b> 85.0	<b>77.5</b> 76.1	<b>8,530</b> * 8,240*
80.0	68.1	15,540	80.0	70.7	16,090	85.0	68.4	14,410	85.0	71.7	12,850*	90.0	68.6	13,350	90.0	74.0 <b>72.5</b>	9,740*	90.0	70.0	13,490	90.0	74.6	8,000*
85.0	66.5	14,190	85.0	69.0	14,680	90.0	66.9	13,200	90.0	70.1	12,500*	95.0	67.0	12,210	95.0	70.9	9,450*	95.0	68.5	12,340	95.0	73.1	7,760*
90.0	64.8	12,980	90.0	67.3	13,440	95.0	65.2	12,050	95.0	68.4	12,140*	100.0	65.5	11,260	100.0	69.3	9,210*	100.0	67.1	11,370	100.0	71.6	7,530*
95.0 <b>100.0</b>	63.0 <b>61.3</b>	11,860 <b>10,910</b>	95.0 <b>100.0</b>	65.5 <b>63.8</b>	12,270 <b>11,280</b>	100.0 <b>105.0</b>	63.6 <b>62.0</b>	11,110 <b>10,250</b>	100.0 <b>105.0</b>	66.7 <b>65.1</b>	11,640 <b>10,730</b>	105.0 <b>110.0</b>	64.0 <b>62.5</b>	10,400 <b>9,610</b>	105.0 <b>110.0</b>	67.8 <b>66.2</b>	8,970* <b>8,770</b> *	105.0 <b>110.0</b>	65.7 <b>64.2</b>	10,490 <b>9,720</b>	105.0 <b>110.0</b>	70.2 <b>68.7</b>	7,310* <b>7,140</b> *
105.0	59.6	10,070	105.0	62.0	10,400	110.0	60.4	9,470	110.0	63.4	9,920	115.0	60.8	8,860	115.0	64.5	8,550*	115.0	62.7	8,970	115.0	67.0	6,940*
110.0	57.9	9,300	110.0	60.2	9,610	115.0	58.6	8,730	115.0	61.5	9,120	120.0	59.2	8,220	120.0	62.8	8,350*	120.0	61.2	8,310	120.0	65.5	6,790*
115.0 <b>120.0</b>	55.9 <b>54.1</b>	8,550 <b>7,930</b>	115.0 <b>120.0</b>	58.2 <b>56.3</b>	8,840 <b>8,200</b>	120.0 <b>125.0</b>	56.9 <b>55.1</b>	8,090 <b>7,510</b>	120.0 <b>125.0</b>	59.8 <b>58.0</b>	8,460 <b>7,840</b>	125.0 <b>130.0</b>	57.6 <b>55.9</b>	7,620 <b>7,090</b>	125.0 <b>130.0</b>	61.1 <b>59.4</b>	8,090 <b>7,510</b>	125.0 <b>130.0</b>	59.7 <b>58.1</b>	7,730 <b>7,180</b>	125.0 130.0	63.9 <b>62.3</b>	6,610* <b>6,480</b> *
120.0	52.2	7,360	120.0	54.4	7,580	130.0	53.3	6,960	130.0	56.1	7,270	135.0	54.2	6,590	135.0	<b>57.6</b>	6,980	135.0	56.5	6,670	135.0	60.7	6,340*
130.0	50.2	6,830	130.0	52.4	7,030	135.0	51.5	6,480	135.0	54.2	6,760	140.0	52.4	6,100	140.0	55.7	6,450	140.0	54.8	6,190	140.0	58.9	6,210*
135.0 <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	43.9	5,310*				150.0	45.5	5,090*				155.0	46.8	4,800*	130.0	51.9	3,370	155.0	49.7	4,960*	155.0	53.5	5,350
150.0	41.6	4,760*				155.0	43.4	4,580*				160.0	44.7	4,320*				160.0	47.8	4,490*	160.0	51.5	4,960
155.0	39.2	4,230*				160.0	41.1	4,050*				165.0	42.7	3,880*				165.0	46.0	4,050*			
<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		1	Ree	ves	1		ves	1	Ree	ves	1		ves	1	Ree	ves	1
	170	)' Boo	m					'												•			
	170	)' Boo 30 1	m t Jib					401	ft <b>Ji</b> b					50 1	ft <b>Ji</b> b					601	ft Jib		
			t <b>Ji</b> b	eg.)			(	40 t O set An		eg.)			(	50 t O set Ar		eg.)			(	60 t O set Ar		eg.)	
	10	30 t O set Ar	ft <b>Ji</b> b gle (d	30	Divid		10	O set An	ngle (d	30			10	O set An	ngle (de	30	Dital		10	O set An	ngle (d	30	Dut
Load Padius (ft)	(	30 t O set An	t <b>Ji</b> b	30 Boom	Pated Load (lbs)	Load Padius (ft)	10 Boom	O set An		<u> </u>	Pated Load (lbs)	Load Padius (ft)		O set Ar		<u> </u>	Pated Load (lbs)	Load Padius (ft)		O set An		<u> </u>	Pated Load (lbs)
Radius (ft) 45.0	10 Boom Angle (deg.) 79.8	30 t O set Ar Rated Load (lbs) 24,000*	it Jib ngle (d Load Radius	30 Boom Angle	Load	Padius (ft) 50.0	Boom Angle (deg.)	Pated Load (lbs) 24,000*	Igle (d Load Radius	30 Boom Angle	Rated Load	Padius (ft) 55.0	Boom Angle (deg.) 79.2	Pated Load (lbs) 20,000*	Igle (de Load Radius	30 Boom Angle	Load	Padius (ft) 55.0	Boom Angle (deg.) 80.0	Pated Load (lbs) 18,000*	Igle (d Load Radius	30 Boom Angle	Load
######################################	79.8 78.3	30 t O set Ar Pated Load (lbs) 24,000* 24,000*	gle (d Load Radius (ft)	Boom Angle (deg.)	Load (lbs)	### Fadius (ft) 50.0 <b>55.0</b>	10 Boom Angle (deg.) 79.6 78.1	Pated Load (lbs) 24,000*	Load Radius (ft)	30 Boom Angle (deg.)	Pated Load (lbs)	### Fadius (ft) 55.0 60.0	10 Boom Angle (deg.) 79.2 77.9	Rated Load (lbs) 20,000* 20,000*	Igle (de Load Radius	30 Boom Angle	Load	### Padius (ft) 55.0 60.0	80.0 78.8	Rated Load (lbs) 18,000* 18,000*	Igle (d Load Radius	30 Boom Angle	Load
Radius (ft) 45.0	10 Boom Angle (deg.) 79.8	30 t O set Ar Rated Load (lbs) 24,000*	it Jib ngle (d Load Radius	30 Boom Angle	Load	Padius (ft) 50.0	Boom Angle (deg.)	Pated Load (lbs) 24,000*	Igle (d Load Radius	30 Boom Angle	Rated Load	Padius (ft) 55.0	Boom Angle (deg.) 79.2	Pated Load (lbs) 20,000*	Igle (de Load Radius	30 Boom Angle	Load	Padius (ft) 55.0	Boom Angle (deg.) 80.0	Pated Load (lbs) 18,000*	Igle (d Load Radius	30 Boom Angle	Load
45.0 <b>50.0</b> 55.0 <b>60.0</b> 65.0	79.8 76.8 75.3 73.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 20,940	Load Radius (ft) 55.0 60.0 65.0	30 Boom Angle (deg.) 79.4 77.9 76.4	21,000* 21,000* 21,000* 20,830*	50.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 79.6 78.1 76.7 75.3 73.9	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090	Load Radius (ft)  60.0 65.0 70.0	30 Boom Angle (deg.) 80.0 78.6 77.1	Pated Load (lbs)  15,290* 14,770* 14,300*	55.0 60.0 65.0 70.0 75.0	## 10 Boom Angle (deg.)  79.2 ## 77.9   76.5   75.2   73.8	Pated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350	Load Radius (ft) 70.0	30 Boom Angle (deg.) 79.1 77.6	Load (lbs) 11,170* 10,800*	55.0 60.0 65.0 70.0 75.0	80.0 78.8 77.5 76.2	Pated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080*	Load Radius (ft)	30 Boom Angle (deg.)	Load (lbs) 8,900*
45.0 50.0 55.0 60.0 65.0 70.0	79.8 78.3 76.8 75.3 73.8 72.4	30 to 30 to 30 set Ar	Load Radius (ft) 55.0 60.0 70.0	30 Boom Angle (deg.) 79.4 77.9 76.4 74.9	21,000* 21,000* 21,000* 20,830* 19,530	50.0 55.0 60.0 65.0 70.0 75.0	79.6 78.1 76.7 75.3 73.9 72.4	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150	Load Radius (ft)  60.0 65.0 70.0 75.0	30 Boom Angle (deg.) 80.0 78.6 77.1 75.6	Fated Load (lbs)  15,290* 14,770* 14,300* 13,840*	55.0 60.0 65.0 70.0 75.0 80.0	79.2 77.9 76.5 75.2 73.8 72.4	Rated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350 15,760	Load Radius (ft)  70.0 75.0 80.0	30 Boom Angle (deg.) 79.1 77.6 76.2	Load (lbs) 11,170* 10,800* 10,490*	55.0 60.0 65.0 70.0 75.0 80.0	80.0 78.8 77.5 76.2 73.6	Rated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890	Load Radius (ft) 75.0 80.0	30 Boom Angle (deg.) 79.4 78.1	8,900* 8,610*
45.0 <b>50.0</b> 55.0 <b>60.0</b> 65.0	79.8 76.8 75.3 73.8	Rated Load (lbs) 24,000* 24,000* 24,000* 24,000* 20,940	Load Radius (ft) 55.0 60.0 65.0	30 Boom Angle (deg.) 79.4 77.9 76.4	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890	50.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 79.6 78.1 76.7 75.3 73.9	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090	Load Radius (ft)  60.0 65.0 70.0	30 Boom Angle (deg.) 80.0 78.6 77.1	Pated Load (lbs)  15,290* 14,770* 14,300*	55.0 60.0 65.0 70.0 75.0	## 10 Boom Angle (deg.)  79.2 ## 77.9   76.5   75.2   73.8	Pated Load (lbs) 20,000* 20,000* 20,000* 19,310 17,350	Load Radius (ft) 70.0	30 Boom Angle (deg.) 79.1 77.6	Load (lbs) 11,170* 10,800*	55.0 60.0 65.0 70.0 75.0	80.0 78.8 77.5 76.2	Pated Load (lbs) 18,000* 18,000* 18,000* 18,000* 17,080*	Load Radius (ft)	30 Boom Angle (deg.)	Load (lbs) 8,900*
### April 12  ##	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500 20,940 18,820 16,880 15,320 13,950	Load Radius (ft)  55.0 60.0 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1	Pated Load (lbs)  24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 12,960	Load Radius (ft)  60.0 65.0 70.0 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1	7ated Load (lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690*	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2	Pated Load (lbs)  20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990	Control Load Radius (ft)  70.0 75.0 80.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.1 77.6 76.2 74.8 73.4 71.9	11,170* 10,800* 10,490* 10,180* 9,890* 9,610*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5	Pated Load (lbs)  18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100	75.0 80.0 85.0 95.0	79.4 78.1 76.7 75.4 73.9	8,900* 8,610* 8,350* 8,110* 7,870*
### Radius (ft)   45.0   50.0   55.0   60.0   65.0   70.0   75.0   80.0   85.0   90.0	79.8 76.8 75.3 76.8 72.4 70.8 69.3 67.7 66.2	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500 20,940 18,820 16,880 15,320 13,950 12,740	Et Jib gle (de la	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6	21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240	75.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5	Pated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 14,170 12,960 11,810	60.0 65.0 70.0 75.0 80.0 85.0 90.0	80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5	7aled Load (lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360*	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7	Pated Load (lbs) 20,000* 20,000* 19,310 11,350 14,370 13,130 11,990 11,020	70.0 75.0 80.0 95.0 100.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2	Pated Load (fbs) 18,000* 18,000* 18,000* 17,080* 17,080* 15,890 14,500 13,270 12,100 11,150	75.0 80.0 85.0 90.0 100.0	79.4 78.1 76.7 75.4 73.9 72.5	8,900* 8,610* 8,350* 8,110* 7,870* 7,640*
### April 12  ##	79.8 78.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500 20,940 18,820 16,880 15,320 13,950	Load Radius (ft)  55.0 60.0 65.0 70.0 75.0 80.0	30 Boom Angle (deg.) 79.4 77.9 76.4 74.9 73.2 71.7 70.1	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480	50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1	Pated Load (lbs)  24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 12,960	Load Radius (ft)  60.0 65.0 70.0 75.0 80.0 85.0 90.0	30 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 71.1	7ated Load (lbs) 15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690*	55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2	Pated Load (lbs)  20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990	Control Load Radius (ft)  70.0 75.0 80.0 85.0 90.0 95.0	30 Boom Angle (deg.) 79.1 77.6 76.2 74.8 73.4 71.9	11,170* 10,800* 10,490* 10,180* 9,890* 9,610*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5	Pated Load (lbs)  18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100	75.0 80.0 85.0 95.0	79.4 78.1 76.7 75.4 73.9	8,900* 8,610* 8,350* 8,110* 7,870*
### Addius (ft)   ### 45.0   ### 55.0   ### 60.0   ### 65.0   ### 75.0   ### 85.0   ### 90.0   ### 95.0   ### 100.0   ### 105.	79.8 76.8 75.3 73.8 72.4 70.8 66.2 64.5 62.9 61.3	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500 20,940 11,680 15,320 11,610 10,670 9,810	Example (a) Load Radius (ft) Load (a) Control (c) Cont	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9	Pated Load (fbs) 24,000* 24,000* 24,000* 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230	60.0 65.0 70.0 85.0 90.0 95.0 100.0 110.0	80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8	78ted Load (lbs)  15,290* 14,770* 14,300* 13,840* 13,950* 12,690* 12,360* 11,440 10,530 9,720	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3	Pated Load (flbs)  20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 8,610	70.0 75.0 80.0 95.0 100.0 115.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0	Pated Load (lbs)  18,000* 18,000* 18,000* 18,000* 17,080* 17,080* 14,500 11,150 10,270 9,470 8,730	75.0 80.0 85.0 90.0 95.0 100.0 115.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2	8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,050*
### Addius (ft)   ### 45.0   ### 55.0   ### 66.0   ### 65.0   ### 75.0   ### 85.0   ### 95.0   ### 100.0   ### 100.0   ### 110	79.8 76.8 75.3 73.8 72.4 66.2 64.5 62.9 61.3 59.7	30 is set Ar  Pated Load (lbs)  24,000* 24,000* 24,000* 23,500 20,940 11,6880 15,320 11,610 10,670 9,810 9,060	Load Padius (ft)   Load Padius (ft)	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6 61.9	21,000* 21,000* 21,000* 20,830* 19,530 15,890 14,480 13,240 12,050 11,080 10,200 9,390	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 115.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3	Pated Load (fbs) 24,000* 24,000* 24,000* 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230 8,480	60.0 65.0 70.0 85.0 90.0 95.0 110.0 115.0	80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8 63.1	78ted Load (lbs)  15,290* 14,770* 14,300* 13,840* 13,950* 12,690* 12,360* 11,440 10,530 9,720 8,920	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 115.0 110.0 120.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8	Pared Load (flbs)  20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980	70.0 75.0 80.0 95.0 100.0 115.0 120.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3	11,170* 10,800* 10,490* 10,180* 9,610* 9,360* 9,120* 8,900* 8,680* 8,500	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 120.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0 62.6	Pated Load (lbs)  18,000* 18,000* 18,000* 18,000* 17,080* 17,080* 14,500 11,150 10,270 9,470 8,730 8,090	75.0 80.0 80.0 95.0 100.0 115.0 120.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2 66.7	8,900* 8,610* 8,350* 8,110* 7,870* 7,450* 7,050* 6,900*
### Addius (ft)   ### 45.0   ### 55.0   ### 65.0   ### 75.0   ### 75.0   ### 85.0   ### 95.0   ### 100.0   ### 105	79.8 76.8 75.3 73.8 72.4 70.8 69.3 59.7 66.2 64.5 62.9 61.3 59.7 57.9	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500 20,940 16,880 15,320 11,610 10,670 9,810	Example (a) Load Radius (ft) Load (a) Control (c) Cont	79.4 77.9 76.4 74.9 73.2 71.7 70.1 68.6 66.9 65.2 63.6	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 68.1 66.5 65.0 63.5 61.9	Pated Load (fbs) 24,000* 24,000* 24,000* 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230	60.0 65.0 70.0 85.0 90.0 95.0 100.0 110.0	80.0 78.6 77.1 75.6 74.1 72.6 71.1 69.5 68.0 66.4 64.8	78ted Load (lbs)  15,290* 14,770* 14,300* 13,840* 13,950* 12,690* 12,360* 11,440 10,530 9,720	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3	Pated Load (flbs)  20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 8,610	70.0 75.0 80.0 95.0 100.0 115.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,360* 9,120* 8,900* 8,680*	75.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0	80.0 78.8 77.5 76.2 74.9 73.6 72.3 71.0 69.5 68.2 66.8 65.5 64.0	Pated Load (lbs)  18,000* 18,000* 18,000* 18,000* 17,080* 17,080* 14,500 11,150 10,270 9,470 8,730	75.0 80.0 85.0 90.0 95.0 100.0 115.0	79.4 78.1 76.7 75.4 73.9 72.5 71.1 69.7 68.2	8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,050*
Radius (ft)  45.0  45.0  50.0  55.0  60.0  65.0  75.0  80.0  85.0  90.0  100.0  110.0  120.0  125.0	79.8 76.8 75.3 76.8 75.3 73.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 57.9 56.2 54.4	30 is set Ar  Pated Load (lbs)  24,000* 24,000* 24,000* 23,500 20,940 18,820 16,880 15,320 11,610 10,670 9,810 9,060 8,310 7,670 7,090	55.0 60.0 65.0 70.0 90.0 90.0 105.0 115.0 125.0 125.0	79.4 77.9 76.4 74.9 73.2 66.9 65.2 63.6 61.9 60.1 58.3 56.5	21,000* 21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360	### Redius (ft)   50.0   55.0   60.0   65.0   70.0   75.0   80.0   85.0   90.0   105.0   110.0   115.0   120.0   125.0   130.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 66.5 66.5 63.5 61.9 60.3 58.7 57.0 55.4	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230 8,480 7,840 7,270 6,720	60.0 65.0 70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 130.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 68.0 66.4 64.8 63.1 61.5 59.8 58.1	15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 60.8 59.3 57.7 56.1	Pated Load (lbs)  20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340	70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0	79.1 77.6 76.2 74.8 77.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760	### Redius (ft)   55.0   60.0   65.0   70.0   75.0   80.0   95.0   95.0   100.0   115.0   125.0   135.0   135.0	70 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 66.8 65.5 64.0 62.6 61.1 59.7 58.2	### Pated Load (lbs)    18,000*   18,000*   18,000*   17,080*   15,890   14,500   11,150   10,270   9,470   8,730   8,090   7,490   6,940   6,450	75.0 80.0 85.0 90.0 91.0 110.0 125.0 133.0 135.0	79.4 78.1 76.7 75.4 77.5 68.2 66.7 65.2 63.7 62.2	8,900* 8,610* 8,350* 8,110* 7,640* 7,450* 7,050* 6,900* 6,740* 6,590* 6,450*
Radius (ft) 45.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 125.0 130.0	79.8 76.8 75.3 76.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 52.6	30 is set Ar  Pated Load (lbs)  24,000* 24,000* 24,000* 23,500 20,940 18,820 16,880 15,320 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560	55.0 60.0 65.0 70.0 90.0 90.0 105.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 76.4 74.9 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Padius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 120.0 125.0 135.0	70.0 Boom Angle (deg.) 79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 66.5 66.5 63.5 61.9 60.3 58.7 57.0 55.4 53.7	Rated Load (lbs) 24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230 8,480 7,840 7,270 6,720 6,230	60.0 65.0 70.0 75.0 80.0 85.0 100.0 115.0 120.0 125.0 130.0 135.0 135.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 68.0 66.4 64.8 63.1 61.5 59.8 58.1 56.3	15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070 6,540	Radius (ft)  55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 90.0 115.0 120.0 125.0 135.0 140.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 60.8 59.3 57.7 56.1 54.4	Pated Load (lbs)  20,000* 20,000* 20,000* 19,310 17,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340 5,860	70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0	79.1 77.6 76.2 74.8 73.4 70.4 65.8 64.3 62.7 61.1 59.5 57.7	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760 6,260	Padius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 100.0 115.0 120.0 135.0 135.0 140.0	70 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6	Pated Load (lbs)  18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950	75.0 80.0 85.0 90.0 910.0 115.0 125.0 135.0 140.0	79.4 78.1 76.7 75.4 77.5 68.2 66.7 65.2 60.5	8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 6,740* 6,590* 6,450* 6,300*
### Redius (ft)   ### 45.0   ### 45.0   ### 55.0   ### 65.0   ### 65.0   ### 75.0   ### 65.0   ### 75.0   ###	79.8 76.8 75.3 76.8 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 52.6	30 is set Ar  Pated Load (lbs)  24,000* 24,000* 24,000* 23,500 20,940 18,820 16,880 15,320 11,610 10,670 9,810 9,060 8,310 7,670 7,090	55.0 60.0 65.0 70.0 90.0 90.0 105.0 115.0 125.0 125.0	79.4 77.9 76.4 74.9 73.2 66.9 65.2 63.6 61.9 60.1 58.3 56.5	21,000* 21,000* 21,000* 20,830* 19,530 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360	### Redius (ft)   50.0   55.0   60.0   65.0   70.0   75.0   80.0   85.0   90.0   105.0   110.0   115.0   120.0   125.0   130.0	79.6 78.1 76.7 75.3 73.9 72.4 71.0 69.5 66.5 66.5 63.5 61.9 60.3 58.7 57.0 55.4	Pated Load (lbs)  24,000* 24,000* 23,800 21,250 19,090 17,150 15,560 14,170 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750	60.0 65.0 70.0 75.0 85.0 99.0 100.0 115.0 120.0 125.0 130.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 68.0 66.4 64.8 63.1 61.5 59.8 58.1	15,290* 14,770* 14,300* 13,840* 13,420* 13,050* 12,690* 12,360* 11,440 10,530 9,720 8,920 8,240 7,640 7,070	Fadius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 60.8 59.3 57.7 56.1	Pated Load (lbs) 20,000* 20,000* 19,310 11,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340 5,860 5,440	70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0	79.1 77.6 76.2 74.8 77.9 70.4 68.9 67.4 65.8 64.3 62.7 61.1 59.5	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,600 7,890 7,310 6,760 6,260 5,790	### Redius (ft)   55.0   60.0   65.0   70.0   75.0   80.0   95.0   95.0   100.0   115.0   125.0   135.0   135.0	70 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 72.3 66.8 65.5 64.0 62.6 61.1 59.7 58.2	Pated Load (lbs)  18,000* 18,000* 18,000* 17,080* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950 5,530	75.0 80.0 85.0 90.0 91.0 110.0 125.0 133.0 135.0	79.4 78.1 76.7 75.4 77.5 68.2 66.7 65.2 63.7 62.2	8,900* 8,610* 8,350* 8,110* 7,640* 7,450* 7,050* 6,900* 6,740* 6,590* 6,450*
### Redius (ft)   ### 45.0   ### 55.0   ### 55.0   ### 65.0   ### 75.0   ###	79.8 76.8 75.3 76.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 50.8 48.8 46.8	Rated Load (lbs) 24,000* 24,000* 24,000* 23,500 20,940 18,820 18,820 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080 5,590 5,040*	55.0 60.0 65.0 70.0 90.0 90.0 105.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 76.4 74.9 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Fadius (ft) 50.0 55.0 60.0 65.0 770.0 775.0 80.0 85.0 90.0 105.0 1120.0 1225.0 130.0 1440.0 145.0 150.0	79.6 78.1 76.7 75.3 9 72.4 71.0 69.5 68.1 66.5 61.9 60.3 75.4 75.3 75.0 55.4 50.1 48.2	Pated Load (lbs) 24,000* 24,000* 21,250 19,090 17,150 12,960 14,170 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750 5,290* 4,780*	60.0 65.0 70.0 75.0 88.0 95.0 910.0 115.0 125.0 135.0 140.0 140.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	15,290* 14,770* 14,300* 13,840* 13,420* 12,690* 12,690* 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 130.0 140.0 145.0 155.0	79.2 77.9 76.5 75.2 73.8 72.4 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 55.7 75.1 54.4 52.8 51.1 49.3	Pated Load (lbs)  20,000* 20,000* 19,310 11,350 15,760 14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340 5,860 5,440 4,960* 4,490*	70.0 75.0 80.0 85.0 95.0 105.0 115.0 125.0 135.0 140.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 66.3 61.1 59.5 57.7 56.0	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,680* 8,500 7,890 7,310 6,760 6,260	Facius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 115.0 125.0 130.0 145.0 155.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 56.6 55.1 53.5 51.9	Pated Load (fbs) 18,000* 18,000* 18,000* 18,000* 17,080* 15,890 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,450 5,950 5,530 5,070* 4,620*	75.0 80.0 85.0 90.0 105.0 115.0 125.0 145.0 155.0 155.0	79.4 78.1 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 60.5 58.9 57.3 55.6	8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 6,740* 6,590* 6,450* 6,300* 5,970 5,550 5,150
Radius (t) 45.0 50.0 55.0 60.0 75.0 80.0 85.0 90.0 100.0 110.0 115.0 120.0 1330.0 145.0 145.0 150.0	79.8 78.3 76.8 75.3 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 48.8 44.8	Rated Load (flbs) 24,000* 24,000* 24,000* 23,500 18,820 16,880 15,320 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080 5,590 5,040* 4,540*	55.0 60.0 65.0 70.0 90.0 90.0 105.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 76.4 74.9 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Padius (ft) 50.0 55.0 60.0 65.0 70.0 775.0 80.0 85.0 99.0 100.0 115.0 122.0 135.0 1440.0 145.0 155.0	79.6 78.1 76.7 75.3 77.3 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7 57.0 55.4 50.1 48.2 46.3	Pated Load (lbs) 24,000* 24,000* 21,250 19,090 17,150 15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750 5,290* 4,780* 4,320*	60.0 65.0 70.0 75.0 88.0 95.0 910.0 115.0 125.0 135.0 140.0 140.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	15,290* 14,770* 14,300* 13,840* 13,420* 12,690* 12,690* 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 130.0 140.0 145.0 155.0 160.0	79.2 77.9 76.5 76.5 76.5 73.8 72.4 71.0 69.6 68.2 66.7 65.3 60.9 62.3 60.8 59.3 59.3 55.7 55.1 49.3 47.4	Pated Load (lbs)  20,000* 20,000* 19,310 11,7350 14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340 5,660 5,440 4,960* 4,490* 4,030*	70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 66.3 61.1 59.5 57.7 56.0 54.2	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,500 7,310 6,760 6,260 5,790 5,370	Padius (ft) 55.0 60.0 65.0 70.0 77.0 80.0 85.0 99.0 105.0 115.0 125.0 135.0 145.0 155.0 160.0 155.0 160.0 16	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 55.1 53.5 51.9 50.1	Pated Load (fbs)  18,000* 18,000* 18,000* 18,000* 17,080* 15,690 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,945 5,530 5,070* 4,620* 4,160*	75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 155.0 155.0 160.0 155.0 160.0 155.0 160.0 155.0 160.	79.4 78.1 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 60.5 58.9 57.3 55.6 53.8	8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 6,900* 6,740* 6,590* 6,450* 6,300* 5,970 5,550 5,150 4,670*
Radius (t) 45.0 55.0 60.0 65.0 670.0 85.0 80.0 85.0 90.0 100.0 115.0 125.0 130.0 145.0 145.0 155.0	79.8 78.3 76.8 75.3 72.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 48.8 44.8 42.7	Rated Load (flbs) 24,000* 24,000* 24,000* 23,500 16,880 15,320 13,950 12,740 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080 5,590 5,040* 4,540* 4,030*	55.0 60.0 65.0 70.0 90.0 90.0 105.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 76.4 74.9 76.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Padius (ft)  50.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 145.0 155.0 160.0	79.6 78.1 76.7 75.3 972.4 71.0 69.5 68.1 66.5 65.0 63.5 55.4 55.4 55.4 48.2 46.3 44.2	Pared Load (lbs)  24,000* 24,000* 21,250 19,090 17,150 15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,240 6,720 6,720 6,720 6,720 6,720 6,720 4,780* 4,320* 3,810*	60.0 65.0 70.0 75.0 88.0 95.0 910.0 115.0 125.0 135.0 140.0 140.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	15,290* 14,770* 14,300* 13,840* 13,420* 12,690* 12,690* 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Radius (ft) 55.0 60.0 65.0 70.0 75.0 88.0 99.0 95.0 100.0 115.0 125.0 135.0 140.0 155.0 160.0 165.0	79.2 77.9 76.5 77.2 76.5 77.2 71.0 69.6 68.2 66.7 65.3 63.9 62.3 60.8 59.3 57.7 56.1 54.4 49.3 47.4 45.6	7,400 6,850 6,340 4,960 4,030 7,400 6,850 6,340 4,960 4,490 4,030 3,610 7,600 6,850 6,340 4,960 4,490 4,030 3,610	70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 66.3 61.1 59.5 57.7 56.0 54.2	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,500 7,310 6,760 6,260 5,790 5,370	Padius (ft) 55.0 60.0 65.0 70.0 85.0 99.0 95.0 110.0 125.0 130.0 140.0 155.0 160.0 165.0 165.0 165.0 165.0	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 55.1 53.5 51.9 50.1 48.5	Pated Load (fbs)  18,000* 18,000* 18,000* 18,000* 17,080* 15,680 14,500 13,270 12,100 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,945 5,530 5,070* 4,620* 4,160* 3,760*	75.0 80.0 85.0 90.0 105.0 115.0 125.0 145.0 155.0 155.0	79.4 78.1 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 60.5 58.9 57.3 55.6	8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 6,740* 6,590* 6,450* 6,300* 5,970 5,550 5,150
Radius (ft) 45.0 55.0 60.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 1330.0 145.0 145.0 150.0	79.8 78.3 76.8 75.3 73.4 70.8 69.3 67.7 66.2 64.5 62.9 61.3 59.7 57.9 56.2 54.4 46.8 44.8 42.7 40.4	Rated Load (flbs) 24,000* 24,000* 24,000* 23,500 18,820 16,880 15,320 11,610 10,670 9,810 9,060 8,310 7,670 7,090 6,560 6,080 5,590 5,040* 4,540*	55.0 60.0 65.0 70.0 90.0 90.0 105.0 115.0 125.0 130.0	79.4 77.9 76.4 74.9 76.4 74.9 76.6 66.9 65.2 63.6 61.9 60.1 58.3 56.5 54.7	21,000* 21,000* 20,830* 19,530 17,520 15,890 14,480 13,240 12,050 11,080 10,200 9,390 8,610 7,980 7,360 6,810	Padius (ft) 50.0 55.0 60.0 65.0 70.0 775.0 80.0 85.0 99.0 100.0 115.0 122.0 135.0 1440.0 145.0 155.0	79.6 78.1 76.7 75.3 77.3 71.0 69.5 68.1 66.5 65.0 63.5 61.9 60.3 58.7 57.0 55.4 50.1 48.2 46.3	Pated Load (lbs) 24,000* 24,000* 21,250 19,090 17,150 15,560 14,170 12,960 11,810 10,860 10,000 9,230 8,480 7,270 6,720 6,230 5,750 5,290* 4,780* 4,320*	60.0 65.0 70.0 75.0 88.0 95.0 910.0 115.0 125.0 135.0 140.0 140.0	300 Boom Angle (deg.) 80.0 78.6 77.1 75.6 74.1 72.6 74.1 72.6 68.0 66.4 64.8 63.1 559.8 58.1 56.3 54.4	15,290* 14,770* 14,300* 13,840* 13,420* 12,690* 12,690* 10,530 9,720 8,920 8,240 7,640 7,070 6,540 6,040	Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 130.0 140.0 145.0 155.0 160.0	79.2 77.9 76.5 76.5 76.5 73.8 72.4 71.0 69.6 68.2 66.7 65.3 60.9 62.3 60.8 59.3 59.3 55.7 55.1 49.3 47.4	Pated Load (lbs)  20,000* 20,000* 19,310 11,7350 14,370 13,130 11,990 11,020 10,160 9,390 8,610 7,980 7,400 6,850 6,340 5,660 5,440 4,960* 4,490* 4,030*	70.0 75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 145.0	79.1 77.6 76.2 74.8 73.4 71.9 70.4 68.9 67.4 65.8 64.3 66.3 61.1 59.5 57.7 56.0 54.2	11,170* 10,800* 10,490* 10,180* 9,890* 9,610* 9,120* 8,900* 8,500 7,310 6,760 6,260 5,790 5,370	Padius (ft) 55.0 60.0 65.0 70.0 77.0 80.0 85.0 99.0 105.0 115.0 125.0 135.0 145.0 155.0 160.0 155.0 160.0 16	70.0 Boom Angle (deg.) 80.0 78.8 77.5 76.2 74.9 73.6 69.5 68.2 66.8 65.5 64.0 62.6 61.1 59.7 58.2 55.1 53.5 51.9 50.1	Pated Load (fbs)  18,000* 18,000* 18,000* 18,000* 17,080* 15,690 11,150 10,270 9,470 8,730 8,090 7,490 6,940 6,945 5,530 5,070* 4,620* 4,160*	75.0 80.0 85.0 90.0 105.0 115.0 125.0 135.0 140.0 155.0 155.0 160.0 155.0 160.0 155.0 160.0 155.0 160.	79.4 78.1 75.4 73.9 72.5 71.1 69.7 68.2 66.7 65.2 60.5 58.9 57.3 55.6 53.8	8,900* 8,610* 8,350* 8,110* 7,870* 7,640* 7,450* 7,050* 6,900* 6,740* 6,5950* 6,300* 5,970 5,550 5,150 4,670*

Carbody Weight: 31,800

Full Counterweight: 69,000 lbs

## **Fixed Jib Lift Capacity**

	180	)' Boo																					
			t <b>J</b> ib					40 f							t Jib						t Jib		
		O set An	gle (d □					O set An	gle (d					O set An	igle (di ⊺					O set Ar	igle (di ⊤		
Load	10 Boom	Rated	Load	30 Boom	Pated	Load	10 Boom	Rated	Load	30 Boom	Pated	Load	10 Boom	Rated	Load	30 Boom	Pated	Load	10 Boom	Rated	Load	30 Boom	Rated
Padius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Radius (ft)	Angle (deg.)	Load (lbs)	Padius (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 <b>55.0</b>	78.9 <b>77.4</b>	22,200* <b>21,750</b> *	55.0	79.9	21,000*	55.0 <b>60.0</b>	78.7 <b>77.3</b>	21,670* <b>21,270</b> *				55.0 <b>60.0</b>	79.7 <b>78.4</b>	20,000* <b>20,000</b> *				60.0 <b>65.0</b>	79.3 <b>78.0</b>	18,000* <b>18,000</b> *			
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	13,290	85.0	73.5	13,240*	85.0	71.9	14,100	85.0	75.5	10,310*	90.0	71.8	13,020	90.0	76.0	8,200
85.0	68.8	13,660	85.0	71.2	14,240	90.0	69.1	12,690	90.0	72.1	12,890*	90.0	70.6	12,890	90.0	74.2	10,030*	95.0	70.4	11,860	95.0	74.6	7,950
90.0	67.4	12,470	90.0	69.7	13,000	95.0	67.6	11,550	95.0	70.5	12,210	95.0	69.2	11,720	95.0	72.7	9,740*	100.0	69.2	10,890	100.0	73.3	7,760
95.0	65.8	11,330	95.0	68.1	11,810	100.0	66.2	10,600	100.0	69.1	11,190	100.0	67.8	10,750	100.0	71.4	9,500*	105.0	67.9	10,000	105.0	72.0	7,530
100.0	64.3 <b>62.8</b>	10,380	100.0 <b>105.0</b>	66.5 <b>65.0</b>	10,820	105.0 <b>110.0</b>	64.8 <b>63.3</b>	9,740	105.0 <b>110.0</b>	67.6 <b>66.1</b>	10,290	105.0 <b>110.0</b>	66.5 <b>65.1</b>	9,890	105.0 <b>110.0</b>	70.0 <b>68.5</b>	9,280*	110.0	66.6 <b>65.2</b>	9,230	110.0 <b>115.0</b>	70.7 <b>69.2</b>	7,36
<b>105.0</b> 110.0	61.3	<b>9,540</b> 8,770	110.0	63.4	<b>9,940</b> 9,140	115.0	61.8	<b>8,970</b> 8,200	115.0	64.5	<b>9,470</b> 8,680	115.0	63.6	<b>9,100</b> 8,350	115.0	67.0	<b>9,060</b> * 8,840*	<b>115.0</b> 120.0	63.8	<b>8,460</b> 7,820	120.0	67.8	<b>7,16</b>
115.0	59.6	8,020	115.0	61.7	8,370	120.0	60.3	7,560	120.0	63.0	8,000	120.0	62.2	7,710	120.0	65.6	8,280	125.0	<b>62.5</b>	7,020	125.0	66.4	6,85
120.0	58.0	7,380	120.0	60.1	7,710	125.0	58.8	6,980	125.0	61.4	7,380	125.0	60.8	7,120	125.0	64.1	7,640	130.0	61.1	6,670	130.0	65.0	6,70
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	6,21
<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*	<b>140.0</b> 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*	<b>145.0</b> 150.0	<b>60.5</b> 59.0	<b>5,70</b> 5,22
145.0	49.4	4,650*	145.0	51.3	4,960*	150.0	50.6	4,380*	150.0	53.0	4,760*	150.0	53.1	4,540*	150.0	56.2	5,020*	155.0	53.8	4,020 <b>4,210</b> *	155.0	57.5	4,76
150.0	47.6	4,160*			1,000	155.0	48.8	3,920*			1,500	155.0	51.5	4,100*	155.0	54.5	4,560*	160.0	52.2	3,760*	160.0	55.8	4,29
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	3,88
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		1 )' Poo		ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1	Ree	ves	1
Ree		)' Boo	m	ves	1	Ree	ves			ves	1	Ree	eves			ves	1	Ree	ves			ves	1
Ree	190	)' Boo 30 f	m t Jib		1	Ree		40 f	t Jib		1	Ree		50 t	t Jib		1	Ree		601	t Jib		1
Ree	190	30 t 30 set An	m It Jib Igle (d	eg.)			10	40 f O set An	t Jib gle (d	eg.) 30		Ree	10	50 t O set An	t Jib gle (d	eg.) 30		Ree	10	60 t O set Ar	t Jib gle (d	eg.) 30	
Load Padius (ft)	190	30 t 30 set Ar	m t Jib	eg.)		Load Radius (ft)	(	40 f O set An	t Jib	eg.)		Load Padius (ft)	(	50 t O set An	t Jib	eg.)	Rated Load (lbs)	Load Padius (ft)	(	601	t Jib	eg.)	Rateo Load (lbs)
Load Padius (ft)	190 10 Boom Angle (deg.)	Pated Load (lbs)	t Jib gle (d Load Radius	leg.) 30 Boom Angle	Pated Load	Load Radius (ft) 55.0	10 Boom Angle (deg.) 79.2	A0 f O set An Rated Load (lbs) 18,950*	t Jib gle (de Load Radius	eg.) 30 Boom Angle	Pated Load	Load Padius (ft) 60.0	10 Boom Angle (deg.) 78.9	50 f O set And Pated Load (lbs) 18,470*	t Jib ngle (de Load Radius	eg.) 30 Boom Angle	Pated Load	Load Padius (ft) 60.0	Boom Angle (deg.)	Rated Load (lbs) 18,000*	t Jib ngle (d Load Radius	eg.) 30 Boom Angle	Pateo Loao
Load Padius (ft)	190 10 Boom Angle (deg.)	30 t 30 t 2) set An	t Jib gle (d Load Radius	leg.) 30 Boom Angle	Pated Load (lbs)	Load Padius (ft)	10 Boom Angle (deg.)	## A0 f ### Set And ### Rated Load (lbs)  18,950*  18,560*	gle (de Load Padius (ft)	eg.) 30 Boom Angle	Pated Load	Load Radius (ft)	10 Boom Angle (deg.)	50 to	t Jib ngle (de Load Radius	eg.) 30 Boom Angle	Pated Load	Load Radius (ft)	10 Boom Angle (deg.)	60 t O set Ar Pated Load (lbs)	t Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rate Load
Load adius (ft) 50.0 55.0 60.0	190 10 Boom Angle (deg.) 79.4 78.0	30 f 30 f 30 f 30 f 30 f 30 set An 19,440* 19,020* 18,620* 18,250*	t Jib gle (d Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)  18,250* 17,870*	Load Radius (ft) 55.0 <b>60.0</b>	79.2 77.9 76.6	A0 f O set An Rated Load (lbs) 18,950*	t Jib gle (de Load Radius	eg.) 30 Boom Angle (deg.)	Pated Load (lbs)	Load Padius (ft) 60.0 65.0	78.9 77.7	50 f O set An D set An Rated Load (lbs) 18,470* 18,070* 17,700* 16,930	t Jib ngle (de Load Radius	eg.) 30 Boom Angle (deg.)	Rated Load (lbs)	Load Padius (ft) 60.0 65.0	10 Boom Angle (deg.) 79.7 78.5	60 to 50 set Ar  Rated Load (lbs) 18,000* 17,960* 17,590* 17,080	t Jib ngle (d Load Radius	eg.) 30 Boom Angle	Rate Loa (Ibs
oad ladius (ft) 50.0 <b>55.0</b> 60.0 <b>65.0</b> 70.0	190 10 Boom Angle (deg.) 79.4 78.0 76.7 75.4 74.0	30 to	Load Radius (ft)  60.0 65.0 70.0	eg.) 30 Boom Angle (deg.) 79.0 77.7 76.3	Rated Load (lbs)  18,250* 17,870* 17,520*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0	79.2 76.6 75.4 74.0	### Add for Set And Pated Load (lbs)  18,950* 18,560* 18,160* 17,810* 16,710	Load Padius (ft)  65.0 70.0	eg.) 30 Boom Angle (deg.) 79.6 78.3 76.9	Pated Load (lbs)  15,100* 14,660* 14,190*	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0	78.9 76.5 75.2 73.9	50 f Set And Pated Load (lbs)  18,470* 18,070* 17,700* 16,930 15,320	Load Radius (ft)  75.0 80.0	eg.) 30 Boom Angle (deg.) 78.7 77.5	Rated Load (lbs)  11,040* 10,730*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0	79.7 78.5 77.4 76.1	60 n Set Ar Pated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470	Load Radius (ft)	eg.) 30 Boom Angle (deg.)	Pate Loa (Ibs
Load ladius (ft) 50.0 65.0 60.0 65.0 70.0 75.0	190 10 Boom Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6	30 ft	Load Radius (ft)  60.0 65.0 70.0 75.0	eg.) 30 Boom Angle (deg.) 79.0 77.7 76.3 74.9	Rated Load (lbs)  18,250* 17,870* 17,520* 17,150	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0	79.2 76.6 75.4 74.0 72.7	## And the control of	Load Radius (ft) 65.0 70.0 75.0 80.0	eg.) 30 Boom Angle (deg.) 79.6 78.3 76.9 75.6	Pated Load (lbs)  15,100* 14,660* 14,190* 13,800*	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 85.0	78.9 76.5 75.2 73.9	750 f Set And Pated Load (lbs) 18,470* 17,700* 16,930 15,320 13,930	Load Radius (ft)  75.0 80.0 85.0	eg.) 30 Boom Angle (deg.) 78.7 77.5 76.2	Rated Load (lbs)  11,040* 10,730* 10,420*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0	79.7 78.5 77.4 76.1 74.9	Rated Load (lbs) 18,000* 17,960* 17,080 15,470 14,060	Load Radius (ft)	eg.) 30 Boom Angle (deg.) 79.1 77.9	Rate Loa (lbs 8,79 8,55
50.0 (ft) 55.0 60.0 75.0 75.0 80.0	190 10 Boom Angle (deg.) 79.4 78.0 76.7 75.4 74.0	30 to	Load Radius (ft)  60.0 65.0 70.0	eg.) 30 Boom Angle (deg.) 79.0 77.7 76.3	Rated Load (lbs)  18,250* 17,870* 17,520*	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0	79.2 76.6 75.4 74.0 72.7	### Add for Set And Pated Load (lbs)  18,950* 18,560* 18,160* 17,810* 16,710	Load Padius (ft)  65.0 70.0	eg.) 30 Boom Angle (deg.) 79.6 78.3 76.9	Pated Load (lbs)  15,100* 14,660* 14,190*	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0	78.9 76.5 75.2 73.9	50 f Set And Pated Load (lbs)  18,470* 18,070* 17,700* 16,930 15,320	Load Radius (ft)  75.0 80.0	eg.) 30 Boom Angle (deg.) 78.7 77.5	Rated Load (lbs)  11,040* 10,730*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0	79.7 78.5 77.4 76.1	60 n Set Ar Pated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470	Load Radius (ft)	eg.) 30 Boom Angle (deg.)	### Rate Load (lbs 8,79
Load adius (ft) 50.0 <b>55.0</b> 60.0 <b>65.0</b> 70.0 <b>75.0</b> 80.0 <b>85.0</b> 90.0	190 10 Boom Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5	7 Set And Pated Load (lbs) 19,440* 18,620* 16,420 14,850 13,490 12,270	Et Jib gle (de la	79.0 77.7 76.3 74.9 73.5 72.1	Rated Load (lbs)  18,250* 17,370* 17,520* 17,150 15,520 14,080 12,850	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7	## Au f ## Set An  ## Rated Load (lbs) 18,950* 18,560* 18,160* 16,710 15,120 13,730 12,520 11,370	Et Jib gle (do Load Padius (ft) 65.0 70.0 75.0 80.0 90.0 95.0	eg.) 30 Boom Angle (deg.) 79.6 78.3 76.9 75.6 74.3 72.9 71.5	Pated Load (lbs)  15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8	Pated Load (lbs) 18,470* 18,070* 17,700* 16,930 12,690 11,550 10,580	### Tool	78.7 77.5 76.2 74.9 72.2	Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,630*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1	Rated Load (lbs) 18,000* 17,960* 17,080 15,470 14,060 12,830 11,680 10,710	Load Radius (ft)  80.0  85.0  90.0  95.0  100.0	eg.) 30 Boom Angle (deg.) 79.1 77.9 76.6 75.3 74.1	8,79 8,55 8,31 8,06 7,84
Load (ft) 50.0 <b>55.0</b> 60.0 <b>65.0</b> 70.0 <b>75.0</b> 80.0 <b>85.0</b> 90.0 <b>95.0</b>	190 10 Boom Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0	7 Set An Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150	ft Jib ggle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2	Rated Load (lbs)  18,250* 17,870* 17,150 15,520 14,080 12,850 11,660	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 67.3	## Au f ## Set Au  ## Rated Load (lbs)  18,950**  18,560*  18,160**  16,710  15,120  13,730  12,520  11,370  10,420	65.0 70.0 85.0 90.0 95.0	79.6 78.3 76.9 75.6 74.3 72.9 71.5	Pated Load (lbs)  15,100* 14,660* 14,190* 13,800* 13,420* 12,050 11,040	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5	Rated Load (lbs) 18,470* 16,930 15,320 13,930 12,690 11,550 10,580 9,720	T5.0 80.0 95.0 100.0 105.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9	Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1 68.8	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 11,680 10,710 9,830	Load Radius (ft)  80.0  85.0  90.0  95.0  100.0  105.0	eg.) 30 Boom Angle (deg.) 79.1 77.9 76.6 75.3 74.1 72.8	8,79 8,55 8,31 8,06 7,84
Load Addius (ft) 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0	190 (0 100 Boom Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 67.2 69.9 68.5 67.0 65.6	7 Set An Pated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150 10,200	Tit Jlb ggle (d Padius (ft))  Load Padius (ft)  60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2 67.7	Rated Load (lbs)  18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 11,660 10,670	Load Radius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0 105.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 67.3 66.0	## Au f ## Set An  ## Rated Load (lbs)  18,950** 18,560* 18,160* 17,810* 16,710* 15,120 11,370 10,420 9,540	Load Radius (ft)  65.0  70.0  85.0  90.0  95.0  100.0  105.0	79.6 78.3 76.9 75.6 74.3 72.9 71.5 70.1 68.7	Pated Load (lbs)  15,100* 14,660* 14,190* 13,800* 13,420* 12,050 11,040 10,140	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2	Rated Load (lbs) 18,470* 16,930 15,320 13,930 11,550 10,580 9,720 8,920	### Total Property of the Image	78.7 77.5 76.2 74.9 70.9 69.6	Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410* 9,190*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0 110.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 68.8 67.6	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 11,680 10,710 9,830 9,030	Load Radius (ft)  80.0 85.0 90.0 95.0 100.0 105.0 110.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5	8,79 8,55 8,31 8,06 7,84 7,64
Load (ft) 50.0 <b>55.0</b> 60.0 <b>65.0</b> 70.0 <b>75.0</b> 80.0 <b>85.0</b> 90.0 <b>95.0</b>	190 10 Boom Angle (deg.) 79.4 78.0 76.7 75.4 74.0 72.6 71.2 69.9 68.5 67.0	7 Set An Rated Load (lbs) 19,440* 19,020* 18,620* 17,870* 16,420 14,850 13,490 12,270 11,150	ft Jib ggle (d Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	79.0 77.7 76.3 74.9 73.5 72.1 70.7 69.2	Rated Load (lbs)  18,250* 17,870* 17,150 15,520 14,080 12,850 11,660	Load Radius (ft) 55.0 60.0 65.0 70.0 75.0 80.0 90.0 95.0 100.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 67.3 66.0	## Au f ## Set Au  ## Rated Load (lbs)  18,950**  18,560*  18,160**  16,710  15,120  13,730  12,520  11,370  10,420	65.0 70.0 85.0 90.0 95.0	79.6 78.3 76.9 75.6 74.3 72.9 71.5	Pated Load (lbs)  15,100* 14,660* 14,190* 13,800* 13,420* 12,050 11,040	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5	Faled Load (lbs) 18,470* 18,070* 17,700* 16,930 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510	T5.0 80.0 95.0 100.0 105.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9	Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 71.3 70.1 68.8	Rated Load (lbs) 18,000* 17,960* 17,590* 17,080 15,470 14,060 12,830 11,680 10,710 9,830	80.0 85.0 99.0 100.0 110.0 120.0	eg.) 30 Boom Angle (deg.) 79.1 77.9 76.6 75.3 74.1 72.8	8,79 8,55 8,31 8,06 7,84 7,45 7,27
4.0ad ladius (ft) 50.0 65.0 65.0 75.0 80.0 85.0 90.0 95.0 105.0 110.0 115.0	190 100 Boom Angle (deg.) 79.4 78.0 76.7 72.6 67.0 65.6 64.1 62.7 61.1	7.870* 13.40* 19.40* 19.620* 18.620* 17.870* 16.420 14.850 13.490 12.270 11,150 10,200 9,340 8,570 7,840	Load Radius (ft)  60.0  65.0  70.0  90.0  90.0  100.0  115.0	79.0 77.7 76.3 74.9 70.7 69.2 67.7 66.3 64.8	Rated Load (lbs)  18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200	Load Fadius (ft) 55.0 60.0 65.0 70.0 80.0 95.0 100.0 115.0 120.0 120.0	79.2 77.9 76.6 75.4 70.1 68.7 66.0 64.6 63.1 61.7	### April ## April ### April ### April ### April ### April ### April ### Apr	Load Radius (ft)  65.0  70.0  85.0  99.0  105.0  110.0  120.0	79.6 (deg.) 79.6 76.9 75.6 76.9 71.5 70.1 68.7 65.8 64.3	Pated Load (lbs)  15,100* 14,660* 14,190* 13,802* 13,090* 12,050 11,040 10,140 9,320 8,530 7,840	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 95.0 100.0 115.0 1120.0 125.0	78.9 76.5 75.2 73.9 72.7 70.1 68.8 67.5 66.2 64.8 63.5 62.1	750 ft 20 set And Pated Load (lbs) 18,470* 18,070* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900*	T5.0 80.0 95.0 100.0 115.0 125.0 125.0	78.7 77.5 76.2 70.9 69.6 68.1 66.7 65.3	Fated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,190* 8,810 8,130 7,490	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 995.0 100.0 115.0 1120.0 125.0 125.0	79.7 78.5 77.4 76.1 74.9 73.8 67.6 66.3 65.0 63.7	Fated Load (lbs) 18,000* 17,960* 17,960* 17,590* 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940*	80.0 85.0 95.0 100.0 110.0 120.0 125.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5	8,79 8,55 8,31 8,06 7,84 7,45 7,27 7,09 6,94
50.0 65.0 77.0 80.0 85.0 99.0 100.0 110.0 115.0 120.0	190 100 Boom Angle (deg.) 79.4 78.0 76.7 74.0 72.6 69.9 68.5 67.0 65.6 64.1 62.7 61.1 59.6	7.200 30 ft 30 ft	Load Radius (ft)  60.0 65.0 70.0 75.0 80.0 90.0 90.0 100.0 115.0 120.0	79.0 77.7 76.3 74.9 77.7 76.3 74.9 66.3 64.8 63.2 61.7	Rated Load (lbs)  18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200 7,530	Load Fadius (tt) 55.0 60.0 65.0 70.0 75.0 80.0 99.0 90.0 105.0 115.0 120.0 125.0	79.2 76.6 75.4 74.0 72.7 74.0 66.7 66.0 64.6 63.1 61.7 60.3	## Au f    Set An   S	Load Radius (ft)  65.0  70.0  85.0  90.0  105.0  110.0  120.0  125.0	79.6 (deg.) 79.6 78.3 76.9 71.5 70.1 68.7 67.3 65.8 64.3 62.9	Pated Load (lbs)  15,100* 14,660* 14,190* 13,802* 13,090* 12,050 11,040 9,320 8,530 7,840 7,230	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0 115.0 120.0 125.0 130.0	78.9 77.7 76.5 75.2 73.9 72.7 70.1 68.8 67.5 66.2 64.8 63.5 62.1 60.8	750 ft 20 set Ard Load (lbs) 18,470* 18,070* 17,700* 16,930 12,690 11,550 10,580 9,720 8,170 7,510 6,900* 6,300*	75.0 80.0 99.0 100.0 115.0 125.0 130.0 130.0	78.7 77.5 76.2 70.9 69.6 68.1 66.7 65.3 63.9	### Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410* 8,810 7,490 6,870*	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0 115.0 120.0 125.0 130.0	79.7 78.5 77.4 76.1 74.9 73.8 67.6 66.3 65.0 63.7 62.4	Fated Load (lbs) 18,000* 17,960* 17,960* 17,590* 17,4060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 6,370*	80.0 85.0 995.0 100.0 110.0 120.0 130.0	79.1 77.9 77.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5 66.2	8,79 8,55 8,31 8,06 7,84 7,45 7,27 7,09 6,94 6,79
Load (ft) 55.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 115.0 120.0	190 100 100 100 100 100 100 100	7.200 6,630 7.20 7.20 7.20 7.20 7.20 7.20 7.20 7.2	Load Radius (ft)  60.0 65.0 70.0 85.0 99.0 100.0 115.0 120.0 125.0	79.0 77.7 76.3 74.9 77.7 76.3 74.9 66.3 64.8 63.2 61.7 60.1	Rated Load (lbs)  18,250* 17,870* 17,520* 17,550 15,520 14,080 12,850 10,670 9,780 8,970 8,200 7,530 6,940	Load Padius (ft) 55.0 60.0 65.0 70.0 85.0 90.0 95.0 110.0 115.0 120.0 125.0 130.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 66.3 66.6 63.1 61.7 60.3 58.8	## Au f    Set An   S	Load Radius (ft)  65.0  65.0  70.0  85.0  90.0  910.0  115.0  125.0  130.0	79.6 (deg.) 79.6 78.3 76.9 71.5 70.1 68.7 67.3 65.8 64.3 62.9 61.4	Pated Load (lbs)  15,100* 14,660* 14,190* 13,802* 13,090* 12,050 11,040 9,320 8,530 7,840 7,230 6,650	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 125.0 130.0 135.0	78.9 77.7 76.5 75.2 73.9 72.7 70.1 68.8 67.5 66.2 64.8 63.5 62.1 60.8 59.4	750 ft 20 set Ard Load (lbs) 18,470* 18,070* 17,700* 16,930 12,690 11,550 10,580 9,720 8,170 7,510 6,900* 6,300* 5,750*	75.0 80.0 995.0 100.0 110.0 120.0 135.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 68.1 66.7 65.3 63.9 62.5	### Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,630* 9,410* 8,810 8,130 7,490 6,870* 6,300*	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 115.0 120.0 125.0 130.0 135.0	79.7 78.5 77.4 76.1 74.9 73.8 67.6 66.3 65.0 63.7 62.4 61.1	Fated Load (lbs) 18,000* 17,960* 17,960* 17,590* 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 6,370* 5,820*	80.0 85.0 995.0 100.0 110.0 120.0 130.0 135.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5 66.2 64.8	8,79 8,55 8,31 8,06 7,84 7,45 7,27 7,09 6,94 6,79 6,48
Load (ft) 55.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 115.0 125.0 130.0	190 100 100 100 100 100 100 100	7.200 6,630 6,040 7.20 8.570 8.570 8.570 8.570 8.570 8.630 6.040*	Load Radius (ft)  60.0 65.0 70.0 75.0 80.0 90.0 90.0 100.0 115.0 120.0	79.0 77.7 76.3 74.9 77.7 76.3 74.9 66.3 64.8 63.2 61.7	18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200 7,530 6,940 6,370	Load Fadius (tt) 55.0 60.0 65.0 70.0 75.0 80.0 99.0 90.0 105.0 115.0 120.0 125.0	70.1 70.1 70.1 70.1 70.1 68.7 71.4 70.1 68.7 66.0 64.6 63.1 60.3 58.8 57.4	### Action	Load Radius (ft)  65.0  70.0  85.0  90.0  105.0  110.0  120.0  125.0	79.6 (deg.) 79.6 78.3 76.9 71.5 70.1 68.7 67.3 65.8 64.3 62.9	15,100* 14,660* 14,190* 13,800* 13,420* 11,040 10,140 9,320 8,530 7,840 7,230 6,650 6,080*	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0 115.0 120.0 125.0 130.0	78.9 77.7 76.5 75.2 73.9 72.7 70.1 68.8 67.5 66.2 64.8 63.5 62.1 60.8	750 to 25 set Ard Load (lbs) 18,470* 17,700* 16,930 12,690 11,550 10,580 9,720 8,920 8,170 6,900* 6,300* 5,750* 5,200*	75.0 80.0 99.0 100.0 115.0 125.0 130.0 130.0	78.7 77.5 76.2 70.9 69.6 68.1 66.7 65.3 63.9	### Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,410* 9,190* 8,810 6,870* 6,300* 5,730*	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0 115.0 120.0 125.0 130.0	79.7 78.5 77.4 76.1 74.9 73.8 67.6 66.3 65.0 63.7 62.4	Fated Load (lbs) 18,000* 17,960* 17,080 15,470 14,060 12,830 11,680 10,710 9,830 9,030 9,030 8,260* 7,580* 6,940* 6,370* 5,820* 5,260*	80.0 85.0 995.0 100.0 110.0 120.0 130.0	79.1 77.9 77.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5 66.2	8,799 8,555 8,31 8,060 7,645 7,45 7,27 7,09 6,946 6,79 6,488 5,900
1.0.00 (ft) 50.0 (55.0 (65.0 70.0 75.0 80.0 90.0 (105.0 120.0 125.	190 100 100 100 100 100 100 100	7.200 6,630 6,040* 7.200 8,570 7,840 7,200 6,630 6,040* 5,460* 4,890*	### Total Parties of the Control of	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 61.7 60.1 58.5 56.9 55.2	Rated Load (lbs)  18,250* 17,870* 17,520* 17,550 15,520 14,080 12,850 10,670 9,780 8,970 8,200 7,530 6,940	Load Padius (t) 55.0 60.0 65.0 70.0 85.0 90.0 105.0 115.0 125.0 135.0 135.0 135.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 66.0 64.6 63.1 60.3 58.8 57.4 55.8	## Au f    Pated Load (lbs)     18,950*     18,950*     18,160*     17,810*     16,710     15,120     13,730     12,520     11,370     10,420     9,540     8,770     8,020     7,380     6,790     6,190*     5,640*     5,070*     4,580*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 110.0 125.0 130.0 135.0	79.6 78.3 76.9 71.5 70.1 68.7 70.1 68.7 65.8 64.3 65.9 61.4 59.9 58.2 56.6	Pated Load (lbs)  15,100* 14,660* 14,190* 13,802* 13,090* 12,050 11,040 9,320 8,530 7,840 7,230 6,650	Load Radius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0 125.0 130.0 135.0 140.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 60.8 59.4 57.9 56.4	750 to 25 set And Load (lbs) 18,470* 18,970* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250*	75.0 80.0 85.0 90.0 95.0 110.0 115.0 125.0 130.0 130.0 140.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 66.3 63.9 62.5 60.9 59.5 57.9	Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,410* 9,190* 8,810 7,490 6,870* 6,300* 5,730* 5,220* 4,730*	Load Radius (ft) 60.0 65.0 70.0 85.0 99.0 95.0 110.0 115.0 120.0 135.0 140.0 145.0 150.0	70.1 68.8 67.6 63.7 62.4 61.1 59.7	Pated Load (lbs) 18,000* 17,960* 17,980 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 6,370* 5,820* 5,260* 4,780* 4,340*	80.0 85.0 99.0 95.0 100.0 110.0 120.0 135.0 140.0 145.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.2 64.8 63.4	8,79 8,55 8,31 8,06 7,84 7,45 7,27 7,09 6,94 6,79 6,94 6,48 5,90 5,40 4,93
Load ladius (ft) 55.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0 100.0 110.0 1125.0 1125.0 135.0 140.0 145.0	190 100 100 100 100 100 100 100	7,200 6,630 6,040* 1,860* 10,440* 19,020* 18,620* 18,620* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 7,200 6,630 6,040* 5,460* 4,890* 4,380*	### Total Parties of the Control of	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 61.7 60.1 58.5 56.9 55.2 53.5	18,250* 17,870* 17,520* 17,520* 17,150 15,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200 7,530 6,940 6,370 5,790* 5,220* 4,690*	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 1330.0 140.0 145.0 150.0 150.0	79.2 77.9 76.6 75.4 70.1 68.7 66.0 64.6 63.1 61.7 58.8 57.4 55.8 54.2 52.7	## A0 f    Set An   S	65.0 70.0 75.0 80.0 85.0 90.0 95.0 115.0 125.0 135.0 140.0 145.0 150.0	79.6 78.3 76.9 71.5 70.1 68.7 67.3 65.8 64.3 65.9 61.4 59.9 58.2 56.6 55.0	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 10,140 9,320 6,650 6,080* 5,510* 4,980* 4,490*	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 135.0 140.0 145.0 155.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 60.8 59.4 55.0 53.5	750 to 25 set And Load (lbs) 18,470* 18,970* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250* 3,810*	75.0 80.0 85.0 90.0 100.0 115.0 120.0 140.0 155.0 155.0 155.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3 63.9 62.5 60.9 59.5 57.9 56.4	### Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,190* 8,810 8,130 7,490 6,870* 6,300* 5,730* 5,220* 4,730* 4,290*	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 1335.0 140.0 145.0 155.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 66.3 65.0 65.7 58.3 56.9 55.5	Pated Load (lbs) 18,000* 17,960* 17,980 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 5,820* 5,260* 4,780* 4,340* 3,900*	80.0 85.0 99.0 95.0 100.0 115.0 120.0 133.0 140.0 145.0 155.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.2 68.9 66.2 64.8 63.4 62.0 60.5 59.1	8,79 8,55 8,31 8,06 7,84 7,45 7,27 7,09 6,94 6,79 6,94 4,93 4,47
Load ladius (ft) 55.0 65.0 65.0 77.0 99.0 99.0 10.0 115.0 125.0 135.0 145.0 150.0	190 100 100 100 100 100 100 100	7,200 6,630 6,040 7,200 8,570 10,200 9,340 7,200 6,630 6,040* 4,890* 4,380* 3,920*	### Total Parties of the Control of	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 61.7 60.1 58.5 56.9 55.2	18,250* 17,870* 17,520* 17,150 15,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200 7,530 6,940 6,370 5,790* 5,220*	Load Radius (ft) 55.0. 60.0 65.0 70.0 85.0 90.0 100.0 115.0 1120.0 1330.0 1440.0 145.0 155.0	79.2 77.9 76.6 75.4 74.0 72.7 71.4 70.1 68.7 66.0 64.6 63.1 61.7 60.3 58.8 55.8 54.2 52.7 51.0	## Au f    Pated Load (lbs)   18,950*     18,560*     18,160*     16,710     15,120     13,730     12,520     11,370     10,420     9,540     8,770     8,020     7,380     6,190*     5,640*     5,070*     4,580*     4,120*     3,680*	65.0 70.0 75.0 80.0 85.0 90.0 95.0 105.0 115.0 125.0 135.0 140.0 145.0	79.6 78.3 76.9 71.5 70.1 68.7 70.1 68.7 65.8 64.3 65.9 61.4 59.9 58.2 56.6	15,100* 14,660* 14,190* 13,800* 13,420* 12,050 11,040 10,140 9,320 6,650 6,080* 5,510* 4,980*	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0 99.0 100.0 115.0 125.0 130.0 140.0 145.0 150.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 60.8 59.4 57.9 56.4	750 to 25 set And Load (lbs) 18,470* 18,970* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250*	75.0 80.0 85.0 90.0 105.0 115.0 125.0 145.0 155.0 160.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3 63.9 69.5 57.9 56.4 54.7	### Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,190* 8,810 8,130 7,490 6,870* 6,300* 5,730* 5,730* 5,220* 4,730* 4,290* 3,830*	Load Padius (ft) 60.0 65.0 70.0 75.0 80.0 85.0 90.0 105.0 115.0 120.0 135.0 145.0 155.0 160.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 66.3 65.0 63.7 62.4 65.1 55.5 54.0	Pated Load (lbs) 18,000* 17,960* 17,960* 17,980 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 5,820* 5,260* 4,780* 4,340* 3,900* 3,480*	80.0 85.0 90.0 105.0 115.0 125.0 155.0 160	79.1 77.9 76.6 75.3 74.1 72.8 71.5 70.2 68.9 67.5 66.2 63.4 62.0 60.5 59.1 57.5	8,79 8,55 8,31 8,06 7,84 7,45 7,27 7,09 6,94 6,79 6,94 4,93 4,47 4,93
1.0.00 (ft) 50.0 (55.0 (65.0 70.0 75.0 80.0 90.0 (105.0 120.0 125.	190 100 100 100 100 100 100 100	7,200 6,630 6,040* 1,860* 10,440* 19,020* 18,620* 18,620* 16,420 14,850 13,490 12,270 11,150 10,200 9,340 7,200 6,630 6,040* 5,460* 4,890* 4,380*	### Total Parties of the Control of	79.0 77.7 76.3 74.9 73.5 72.1 70.7 66.3 64.8 63.2 61.7 60.1 58.5 56.9 55.2 53.5	18,250* 17,870* 17,520* 17,520* 17,150 15,520 14,080 12,850 11,660 10,670 9,780 8,970 8,200 7,530 6,940 6,370 5,790* 5,220* 4,690*	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 1330.0 140.0 145.0 150.0 150.0	79.2 77.9 76.6 75.4 70.1 68.7 66.0 64.6 63.1 61.7 58.8 57.4 55.8 54.2 52.7	## A0 f    Set An   S	65.0 70.0 75.0 80.0 85.0 90.0 95.0 115.0 125.0 135.0 140.0 145.0 150.0	79.6 78.3 76.9 71.5 70.1 68.7 67.3 65.8 64.3 65.9 61.4 59.9 58.2 56.6 55.0	15,100* 14,660* 14,190* 13,800* 13,420* 13,090* 12,050 11,040 10,140 9,320 6,650 6,080* 5,510* 4,980* 4,490*	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 135.0 140.0 145.0 155.0	78.9 77.7 76.5 75.2 73.9 72.7 71.4 70.1 68.8 67.5 66.2 64.8 63.5 60.8 59.4 55.0 53.5	750 to 25 set And Load (lbs) 18,470* 18,970* 16,930 15,320 13,930 12,690 11,550 10,580 9,720 8,920 8,170 7,510 6,900* 6,300* 5,750* 5,200* 4,710* 4,250* 3,810*	75.0 80.0 85.0 90.0 100.0 115.0 120.0 140.0 155.0 155.0 155.0	78.7 77.5 76.2 74.9 73.5 72.2 70.9 69.6 68.1 66.7 65.3 63.9 62.5 60.9 59.5 57.9 56.4	### Pated Load (lbs)  11,040* 10,730* 10,420* 10,160* 9,870* 9,190* 8,810 8,130 7,490 6,870* 6,300* 5,730* 5,220* 4,730* 4,290*	Load Radius (ft) 60.0 65.0 75.0 80.0 85.0 90.0 100.0 115.0 120.0 1335.0 140.0 145.0 155.0	79.7 78.5 77.4 76.1 74.9 73.8 72.6 66.3 65.0 65.7 58.3 56.9 55.5	Pated Load (lbs) 18,000* 17,960* 17,980 15,470 14,060 12,830 11,680 10,710 9,830 9,030 8,260* 7,580* 6,940* 5,820* 5,260* 4,780* 4,340* 3,900*	80.0 85.0 99.0 95.0 100.0 115.0 120.0 133.0 140.0 145.0 155.0	79.1 77.9 76.6 75.3 74.1 72.8 71.5 66.2 68.9 66.2 64.8 63.4 62.0 60.5 59.1	Rate Load

Reeves

Reeves

1

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Reeves

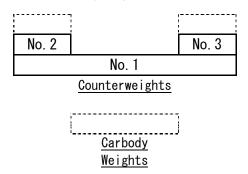
### **Supplemental Data - Clamshell**

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- Rated loads do not exceed 66% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk \* in the charts.
- 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.
- Assembling the Counterweight
   43,600 lbs counterweight (No. 1 ~ No. 3)
   Without Carbody weights



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

#### Clamshell

#### Boom:

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

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

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

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

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

Base = Boom Base

Insert: A = 10 ft (3.05 m)

B = 20 ft (6.10 m)

C = 40 ft (12.2 m)

Tip = Boom Tip

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

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

40	)' Boo	m	50	)' Boo	m	60	)' Boo	m
Load Radius (ft)	Boom Angle (deg.)	360° Pated Load (Ibs)	Load Padius (ft)	Boom Angle (deg.)	360° Pated Load (Ibs)	Load Radius (ft)	Boom Angle (deg.)	360° Pated 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 *	30.0 32.0 34.0 36.0 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 * 14,600 * 14,000 * 13,500 * 13,000 * 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	Padius		Pated Load
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
34.0	64.9	21,400 *	38.0	65.1	19,200 *	42.0	65.2	17,300 *
36.0	63.1	20,200 *	40.0	63.5	18,200 *	44.0	63.8	16,500 *
38.0	61.2	19,200 *	42.0	61.9	17,300 *	46.0	62.4	15,800 *
40.0 42.0	59.3 57.4	18,200 * 17,300 *	44.0 <b>46.0</b>	60.2 58.6	16,500 * 15,800 *	<b>48.0</b> 50.0	60.9 59.5	15,200 * 14,600 *
44.0	55.4	16,500 *	48.0	56.9	15,200 *	<b>52.0</b>	58.0	14,000 *
46.0	53.4	15,800 *	50.0	55.1	14,600 *	54.0	56.4	13,500 *
48.0	51.3	15,200 *	52.0	53.3	14,000 *	56.0	54.9	13,000 *
50.0 52.0	49.1 46.9	14,600 * 14,000 *	54.0 56.0	51.5 49.6	13,500 * 13,000 *	58.0 60.0	53.3 51.7	12,500 * 12,100 *
54.0	44.6	13,500 *	58.0	47.7	12,500 *	62.0	50.0	11,700 *
56.0	42.2	13,000 *	60.0	45.7	12,100 *	64.0	48.3	11,400 *
58.0	39.6	12,500 *	62.0	43.7	11,700 *	66.0	46.6	11,000 *
60.0 62.0	37.0	12,100 *	64.0	41.5	11,400 * 11,000 *	68.0	44.8	10,700 *
64.0	34.1 31.0	11,700 * 11,400 *	66.0 68.0	39.3 37.0	10,700 *	70.0 72.0	43.0 41.0	10,400 * 10,100 *
66.0	27.6	11,000 *	70.0	34.5	10,400 *	74.0	39.0	9,700
			72.0	31.8	10,100 *	76.0	36.9	9,200
			74.0	28.9	9,800 *	78.0	34.7	9,000
			76.0	25.7	9,400 *	80.0 82.0	32.4 29.9	8,500 8,300
						84.0	27.2	7,900
1 1								
10	0' Boo	om	11	0' Boo	om	12	0' Boo	om
10 Load	0' Boom	om <u>360</u>	11 Load	0' Boom	om 360°	12 Load	0' Boom	om <u>360°</u>
Load Radius	Boom Angle	360° Rated Load	Load Padius	Boom Angle	360° Rated Load	Load Padius	Boom Angle	360° Rated Load
Load Padius (ft)	Boom Angle (deg.)	360° Pated Load (lbs)	Load Padius (ft)	Boom Angle (deg.)	360° Pated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Pated Load (lbs)
Load Radius (ft) 46.0	Boom Angle (deg.) 65.4	360° Pated Load (lbs) 15,800 *	Load Radius (ft) 56.0	Boom Angle (deg.)	360° Pated Load (lbs) 11,900 *	Load Radius (ft) 56.0	Boom Angle (deg.) 64.5	360° Pated Load (lbs) 11,400 *
Load Radius (ft) 46.0 48.0	Boom Angle (deg.) 65.4 64.1	360° Pated Load (lbs) 15,800 * 15,200 *	Load Padius (ft) 56.0 58.0	Boom Angle (deg.) 62.0 60.8	360° Pated Load (lbs) 11,900 * 11,700 *	Load Padius (ft) 56.0 58.0	Boom Angle (deg.) 64.5 63.4	360° Pated Load (lbs) 11,400 * 11,300 *
Load Radius (ft) 46.0	Boom Angle (deg.) 65.4	360° Pated Load (lbs) 15,800 *	Load Radius (ft) 56.0	Boom Angle (deg.)	360° Pated Load (lbs) 11,900 * 11,700 * 11,600 * 11,300 *	Load Radius (ft) 56.0	Boom Angle (deg.) 64.5	360° Pated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 *
Load Padius (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 Padius (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 Pated 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° Pated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 *
Load Padius (ft) 46.0 48.0 50.0 52.0 54.0 56.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8	360 Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8	360 Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0	360° Pated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 *
Load Padius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 58.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2	360 Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1	360 Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 *	Load Radius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9	360° Pated Load (lbs) 11,400 * 11,300 * 11,200 * 11,000 * 10,800 *
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 Pated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 *	Load Padius (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 Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700	Load Padius (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° Pated 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 62.0 64.0	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 * 11,700 * 11,400 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6	360 Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300	Load Padius (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 55.6 54.5	360° Pated 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 58.0 60.0 62.0 64.0 66.0	Boom Angle (deg.) 65.4 64.1 62.8 61.5 60.2 58.8 57.5 56.1 54.7 53.3 51.8	360 Rated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 *	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2	360° Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 66.0 70.0 72.0 74.0 76.0	Boom Angle (deg.) 64.5 63.4 62.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800
Load Radius (ft) 46.0 48.0 50.0 52.0 54.0 56.0 68.0 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 Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 68.0 70.0 72.0 74.0 76.0 78.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8	360° Pated 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 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	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 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900	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 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° Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900	Load Padius (tt) 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.) 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 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	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	360° Pated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400	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 82.0 84.0	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	360° Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,800 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500	Load Padius (tt) 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	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	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400
Load Radius (ft)  46.0 48.0 50.0 52.0 54.0 56.0 60.0 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° Pated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,000 * 10,700 * 10,300 9,900 9,400 9,000	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 70.0 72.0 74.0 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° Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200	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 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 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	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	360° Pated 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 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 82.0 84.0	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° Pated 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 Padius (tt) 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	Boom Angle (deg.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 10,600 * 10,200 * 9,900 9,500 9,100 8,800 8,400 8,100 7,700 7,400 7,100 6,800
Load Radius (tt)  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	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	360' Pated 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	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	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	360' Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600	Load Padius (ft) 56.0 58.0 60.0 62.0 64.0 66.0 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.) 64.5 63.4 62.3 61.3 60.2 59.0 57.9 56.8 55.6 54.5 53.3 52.1 50.8 49.6 48.3 47.0 45.7 44.3 42.9	360° Rated Load (lbs)  11,400 * 11,300 * 11,200 * 11,000 * 10,800 * 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
Load Radius (tt)  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	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	360' Pated 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	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	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	360' Pated Load (lbs)  11,900 * 11,700 * 11,600 * 11,300 * 11,100 * 10,400 * 10,400 * 10,100 9,700 9,300 8,900 8,500 8,200 7,900 7,500 7,200 7,000 6,800 6,600 6,400	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	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	360° Pated 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
Load Radius (tt)  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 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 50.4 48.8 47.3 45.7 44.1 42.4 40.6 38.8 36.9 35.0	360° Pated 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	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	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° Pated 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 8,500 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200	Load Padius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 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° Pated 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 (tt)  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	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	360' Pated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,000 * 12,500 * 12,100 * 11,700 * 11,400 * 11,400 * 10,700 * 10,300 9,900 9,400 9,000 8,800 8,300 8,100 7,700 7,400 7,200	Load Padius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 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' Pated 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 8,500 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° Pated 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 (tt)  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 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 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° Pated 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	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	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° Pated 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 8,500 7,900 7,500 7,200 7,000 6,800 6,600 6,400 6,200	Load Padius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 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 38.5 36.9 35.3	360° Pated 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 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' Pated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,500 * 12,500 * 12,100 * 11,700 * 11,400 * 11,400 * 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 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 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' Pated 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 5,700	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° Pated 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 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' Pated Load (lbs)  15,800 * 15,200 * 14,600 * 14,000 * 13,500 * 13,500 * 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 Padius (ft)  56.0 58.0 60.0 62.0 64.0 66.0 70.0 74.0 76.0 78.0 80.0 82.0 84.0 86.0 88.0 90.0 92.0 94.0 96.0 98.0 100.0 102.0	Boom Angle (deg.) 62.0 60.8 59.6 58.3 57.1 55.8 54.6 53.3 52.0 50.6 49.2 47.8 46.4 45.0 43.4 41.9 40.3 38.6 36.9 35.1 33.3 31.3 29.2 27.0	360' Pated 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 7,500 7,500 7,500 7,500 7,500 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 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° Pated 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

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.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
  - Machine shall be positively secured to prevent shifting.
  - Boom backstops are required for all boom length.
  - Gantry must be fully raised position for all operations.
  - Crawlers must be fully extended and be locked in position.
  - Must have 69,000 lbs (5) Counterweights fully installed.
  - Must have 31,700 lbs (2) Carbody weights fully installed.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 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	' Boon	n				50	' Boor	n				60	' Boor	n		
	70			-l	1		50			11 1 (1)	1		00			11 1 (1)	1
Load	Boom		50° Hateo 1 Degree	d Load (lk 2 Degree		Load	Boom	0 Degree	60° Pated		2 Degree	Load	Boom		60° Rated		
Radius (ft)	Angle (deg.)	0 Degree Machine List	Machine List	Machine List	2 Degree Machine List	Radius (ft)	Angle (deg.)	Machine List	1 Degree Machine List	2 Degree Machine List	Machine List	Radius (ft)	Angle (deg.)	0 Degree Machine List	1 Degree Machine List	2 Degree Machine List	2 Degree Machine List
11.0	80.5	220,000 *	Ш	Ц	List	12.0	81.2	213,200 *	Ш	Ц	List	13.0	81.7	200,400 *	Lix	LISC	D3t
12.0	79.0	213,300*				13.0	80.0	200,600 *				14.0	80.7	187,400 *			
13.0	77.5	200,800 *				14.0	78.9	187,800 *				15.0	79.8	175,200 *			
14.0	76.0	188,100 *	175 000 *			15.0	77.7	175,600 *				16.0	78.8	164,800 *			
15.0 16.0	74.6 73.1	175,900 * 165,500 *	175,900 * 165,500 *			16.0 17.0	76.6 75.4	165,300 * 156,000 *				17.0 18.0	77.8 76.8	155,500 * 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 *	146,400 *	126,100 *		19.0	72.9	140,100 *	132,200*			20.0	74.9	132,200	118,100 *		
19.0	68.5	140,500 *	134,600 *	122,400 *		20.0	71.7	132,400	122,900			22.0	72.9	115,100	105,300		
20.0	66.9	132,800	124,900	116,500 *	100,300 *	22.0	69.3	115,300	106,800	98,500 *	77 000 *	24.0	70.9	100,800	93,000	81,600 *	
22.0 24.0	63.7 60.4	115,600 101,300	108,300 95,600	103,400 92,000	97,800 * 88,400	24.0	66.8 64.3	101,000 89,400	94,400 84,500	89,500 * 80,700	77,800 * 75,600 *	26.0 28.0	68.8 66.7	89,100 80,500	83,200 75,300	78,700 71,600	63,000 *
26.0	57.0	89,600	85,600	82,700	79,900	28.0	61.7	80,700	76,400	73,400	70,700	30.0	64.6	72,800	68,700	65,700	61,500 *
28.0	53.4	80,900	77,400	75,100	72,900	30.0	59.1	73,000	69,700	67,200	64,900	32.0	62.5	66,600	63,200	60,600	58,400
30.0	49.8	73,300	70,600	68,700	67,000	32.0	56.3	67,000	63,900	61,900	60,000	34.0	60.3	61,600	58,400	56,200	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 36.0	41.2 36.2	61,700 56,600	60,000 55,700 *	58,900 54,700 *	57,800 53,700 *	36.0 38.0	50.3 47.3	57,800 53,600	55,000 51,400	53,600 50,100	52,300 49,000	38.0 40.0	55.7 53.4	53,100 49,300	50,600 47,500	49,100 46,100	47,700 44,900
38.0	31.1	51,500	51,000 *	49,700 *	48,400 *	40.0	44.0	49,800	48,100	47,200	46,300	42.0	50.9	46,600	44,600	43,500	42,400
40.0	25.4	45,900*	44,800 *	43,600 *	42,500 *	42.0	40.4	47,000	45,400	44,600	43,800	44.0	48.3	43,800	42,100	41,100	40,200
						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 50.0	27.6 22.3	38,300 35,100	38,200 * 34,800 *	37,400 * 33,900 *	36,700 *	50.0 55.0	39.9 31.2	37,200 32,900	35,900 31,900 *	35,300 31,500 *	34,800 31,100 *
						30.0	22.5	33,100	34,000	33,500		60.0	20.7	28,600 *	31,500	31,500	31,100
																	4
nee	eves	8 Poor	7	6	4	Hee	eves	8 ' Poor	6	4	4	Hee	eves	Boor	5	4	
net		'Boon	n		-	Hee		'Boor	n			Hee		' Boor	n		
	70	Boon	n 60° Pateo	d Load (Ib	os)		80	' Boor	n 60° Pateo	d Load (Ib	os)		90	'Boor	n 60° Pateo	d Load (Ib	os)
Load Padius	70 Boom Angle	Boon 30 0 Degree Machine	1 Degree Machine	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Padius	80 Boom Angle	Boon 30 0 Degree Machine	1 Degree Machine	Load (III) 2 Degree Machine	2 Degree Machine	Load Padius	90 Boom Angle	Boor  3  O Degree Machine	60° Pateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Padius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List	n 60° Pateo	d Load (Ib	os) 2 Degree	Load Padius (ft)	Boom Angle (deg.)	Boon 30 Degree Machine List	n 60° Pateo	d Load (Ik	os) 2 Degree	Load Padius (ft)	Boom Angle (deg.)	Boor  3  0 Degree Machine List	n 60° Pateo	d Load (Ik	os) 2 Degree
Load Padius	70 Boom Angle	Boon 30 0 Degree Machine	1 Degree Machine	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Padius	80 Boom Angle	Boon 30 0 Degree Machine	1 Degree Machine	Load (III) 2 Degree Machine	2 Degree Machine	Load Padius	90 Boom Angle	Boor  3  O Degree Machine	60° Pateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Padius (ft)	Boom Angle (deg.)	Boon 30 0 Degree Machine List 151,000*	1 Degree Machine	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Padius (ft)	Boom Angle (deg.) 81.6	Degree Machine List	1 Degree Machine	Load (III) 2 Degree Machine	2 Degree Machine	Load Padius (ft)	Boom Angle (deg.) 81.9	Boor  3  O Degree Machine List  125,800 *	60° Pateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7	30 Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 *	1 Degree Machine	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Padius (ft) 16.0 17.0 18.0 19.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 *	1 Degree Machine	Load (III) 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0	30 Degree Machine List 125,800 * 125,800 * 124,000 *	60° Pateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0 18.0 19.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9	O Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 *	1 Degree Machine	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8	O Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800	1 Degree Machine	Load (III) 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7	30 Degree Machine List 125,800 * 125,800 * 124,000 * 112,500 *	60° Pateo	Load (II) 2 Degree Machine	2 Degree Machine
Load Radius (ft) 15.0 16.0 17.0	Boom Angle (deg.) 81.3 80.4 79.6 78.7	Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 * 132,200	1 Degree Machine	d Load (Ib 2 Degree Machine	2 Degree Machine	Load Padius (ft) 16.0 17.0 18.0 19.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 *	1 Degree Machine	Load (III) 2 Degree Machine	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0	30 Degree Machine List 125,800 * 125,800 * 124,000 *	60° Pateo	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	O Degree Machine List 151,000 * 151,000 * 149,400 * 146,700 * 139,800 *	1 Degree Machine	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 (III) 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° Pateo	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	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0	## Doon  ## ODegree Machine List  151,000 ** 149,400 ** 146,700 ** 139,800 ** 132,200 115,400 101,300 89,600	1 Degree Machine List 92,400 82,800	2 Degree Machine List	2 Degree Machine	Load Radius (ft) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0	Boom Angle (deg.) 81.6 80.9 80.2 79.5 78.8 77.3 75.8 74.3 72.8	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500	1 Degree Machine List 81,800 74,100	2 Degree Machine List	2 Degree Machine	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0	Boom Angle (deg.) 81.9 81.3 80.7 80.0 78.7 77.4 76.1 74.8 73.5	30 Degree Machine List 125,800 * 125,800 * 124,000 * 112,500 * 112,500 * 100,800 89,100 80,500 72,800	1 Degree Machine List  73,000 * 66,900	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	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3	## ODE   ##	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	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 101,000 89,200 80,500 72,800	1 Degree Machine List  81,800 74,100 67,700	2 Degree Machine List	2 Degree Machine List	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 * 100,800 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 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	## Open Control of the Control of	92,400 82,800 75,000 68,500	2 Degree Machine List  68,700 * 67,400 * 65,000	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 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	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 101,000 89,200 80,500 72,800 66,600	1 Degree Machine List  81,800 74,100 67,700 62,200	2 Degree Machine List  58,100 * 57,100 *	2 Degree Machine List 46,400 *	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	Boom Angle (deg.) 81.3 80.4 79.6 78.7 77.9 77.1 75.4 73.7 72.0 70.3	## ODE   ##	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	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 101,000 89,200 80,500 72,800	1 Degree Machine List  81,800 74,100 67,700	2 Degree Machine List	2 Degree Machine List	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 * 100,800 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 Padius (ft)  15.0 16.0 17.0 18.0 19.0 20.0 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	## Deciral Property of Control Property of Con	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 * 49,900 * 47,900 *	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	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600 57,300 53,100	1 Degree Machine List  81,800 74,100 67,700 62,200 57,500	58,100 * 57,100 * 54,700 \$ 51,000 47,800	2 Degree Machine List  46,400 * 44,700 *	Load Radius (ft) 17.0 18.0 19.0 20.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4	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	50,600 * 49,600 * 47,000 44,200	2 Degree Machine List
Load Padius (tt) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 22.0 24.0 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	## Deciries	92,400 82,800 75,000 68,500 63,000 58,300 54,200 50,600	68,700 * 67,400 * 65,000 60,100 55,700 52,100 48,700	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800	Load Padius (tt) 16.0 17.0 18.0 19.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	800 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 66.6 65.1 63.5	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 101,000 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300	81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800	58,100 * 57,100 * 54,700 \$ 51,000 \$ 51,	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 *	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	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	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	73,000 * 66,900 61,600 56,900 49,500 46,300 43,600	50,600 * 49,600 * 47,000 44,200 41,700	2 Degree Machine List 39,900 * 38,500 * 37,600 * 36,400 *
Load Padius (tt) 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 77.1 75.4 73.7 72.0 68.5 66.7 64.9 63.0 61.2 59.3	## Deciries	92,400 82,800 75,000 68,500 63,000 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 Padius (ft) 16.0 17.0 18.0 19.0 22.0 24.0 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 77.8 77.8 71.2 69.7 68.2 66.6 65.1 63.5 61.8	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,600	81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800 44,100	58,100 * 57,100 * 54,700 \$ 51,000 \$ 54,700 \$ 54,000 \$ 54,	25)  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	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8	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 43,700	73,000 * 66,900 61,600 56,900 49,500 46,300 43,600 41,100	50,600 * 49,600 * 47,000 * 41,700 39,500	2 Degree Machine List 39,900 * 38,500 * 37,600 * 36,400 * 35,400 *
Load Padius (tt) 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 42.0	Poom 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 59.3 57.3	## Company	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 Padius (ft) 16.0 17.0 18.0 19.0 22.0 24.0 26.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.4	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	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800	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 45,000 42,400 40,100	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700	Load Padius (ft) 17.0 18.0 19.0 20.0 24.0 24.0 32.0 34.0 38.0 34.0 38.0 44.0 44.0 46.0	Boom Angle (deg.) 81.9 81.3 80.7 76.1 74.8 75.1 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 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 * 47,000 * 41,700 39,500 37,400	2 Degree Machine List  39,900 * 38,500 * 37,600 * 36,400 * 35,400 * 34,300
Load Padius (tt) 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 77.1 75.4 73.7 72.0 68.5 66.7 64.9 63.0 61.2 59.3	## Deciries	92,400 82,800 75,000 68,500 63,000 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 Padius (ft) 16.0 17.0 18.0 19.0 22.0 24.0 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 77.8 77.8 71.2 69.7 68.2 66.6 65.1 63.5 61.8	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,600	81,800 74,100 67,700 62,200 57,500 53,500 50,000 46,800 44,100	58,100 * 57,100 * 54,700 \$ 51,000 \$ 54,700 \$ 54,000 \$ 54,	25)  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	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8	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 43,700	73,000 * 66,900 61,600 56,900 49,500 46,300 43,600 41,100	50,600 * 49,600 * 47,000 * 41,700 39,500	2 Degree Machine List 39,900 * 38,500 * 37,600 * 36,400 * 35,400 *
Load Padius (tt) 15.0 16.0 17.0 18.0 19.0 20.0 24.0 24.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	Poom Angle (deg.) 81.3 80.4 79.6 77.9 77.1 73.7 72.0 70.3 68.5 66.7 64.9 63.0 61.2 59.3 55.3 55.3 51.2	## 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	68,700 * 67,400 * 65,700 * 65,700 * 65,700 * 65,700 48,700 44,700 44,700 43,100 40,800 38,700 36,700	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900	Load Padius (tt) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 50.0	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 56.8	30 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100	81,800 74,100 67,700 62,200 57,500 50,000 46,800 44,100 41,600 39,300 37,300 35,500	58,100 * 57,100 * 54,700 * 54,700 * 54,700 45,000 42,400 40,100 38,000 36,200 34,500	2 Degree Machine List  46,400 * 44,700 * 43,300 * 41,800 * 40,400 * 39,000 * 37,700 36,200 34,800 33,600	Load Radius (ft) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 34.0 34.0 38.0 40.0 44.0 46.0 48.0 50.0 55.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 72.1 70.8 66.6 65.2 63.8 62.4 60.9 59.4 55.7	30 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	73,000 * 60° Patece Machine List  73,000 * 66,900 61,600 56,900 53,000 49,500 46,300 43,600 41,100 38,900 36,900 35,100 31,200	50,600 * 49,600 * 47,000 * 47,000 * 41,700 39,500 37,400 35,600 34,000 30,300	39,900 * 38,500 * 37,600 * 36,400 * 35,400 * 34,300 33,200 32,000 29,200
Load Padius (tt) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 24.0 32.0 34.0 36.0 38.0 40.0 44.0 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 68,500 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	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300	Load Padius (tt) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 33.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0	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 56.8 55.1 50.5	3.0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100 32,700	81,800 74,100 67,700 62,200 57,500 50,000 44,100 41,600 39,300 37,300 35,500 31,500	58,100 * 57,100 * 57,100 * 57,100 * 57,000 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 * 37,700 36,200 34,800 33,600 30,000	Load Radius (tt) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 38.0 34.0 38.0 40.0 44.0 46.0 48.0 50.0 60.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 72.1 70.8 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7	30 Degree Machine List 125,800 * 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	73,000 * 60° Patece Machine List  73,000 * 66,900 61,600 56,900 53,000 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 * 37,600 * 36,400 * 34,300 33,200 32,000 29,200 26,600
Load Padius (tt) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 24.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 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 63,000 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	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800	Load Padius (tt) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0 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 69.7 68.2 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7	3.0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100 32,700 29,200	81,800 74,100 67,700 62,200 57,500 53,500 44,100 41,600 39,300 37,300 31,500 28,300	58,100 * 57,100 * 57,100 * 57,100 * 57,000 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 * 40,400 * 39,000 * 37,700 36,200 34,800 33,600 30,000 27,200	Load Radius (tt) 17.0 18.0 19.0 20.0 22.0 24.0 36.0 38.0 34.0 34.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 77.8 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4	30 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 110,800 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	73,000 * 60° Patece 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 * 49,000 * 47,000 44,200 41,700 39,500 37,400 35,600 34,000 30,300 27,400 24,800	39,900 * 38,500 * 37,600 * 35,400 * 34,300 32,000 29,200 26,600 24,200
Load Padius (tt) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 34.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0	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 36.9	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,500 64,200 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 * 53,600 * 51,800 * 44,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Load Padius (tt) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 30.0 33.0 34.0 36.0 38.0 40.0 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	3.0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 139,400 * 131,800 115,100 101,000 89,200 80,500 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100 32,700 29,200 26,300	81,800 74,100 67,700 62,200 53,500 50,000 44,100 41,600 39,300 37,300 35,500 31,500 28,300 25,700	58,100 * 57,100 * 51,000 47,800 42,400 40,100 38,000 36,200 34,500 30,800 27,700 25,300	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 24,800	Load Radius (tt) 17.0 18.0 19.0 20.0 22.0 24.0 26.0 28.0 30.0 32.0 34.0 40.0 44.0 46.0 48.0 50.0 65.0 70.0	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 42.9	30 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 66,600 61,600 57,300 53,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800	73,000 * 60° Patece Machine List  73,000 * 66,900 61,600 56,900 53,000 49,500 46,300 43,600 41,100 38,900 36,900 35,100 31,200 28,100 25,400 23,100	50,600 * 49,600 * 47,000 * 44,200 * 41,700 39,500 37,400 35,600 34,000 30,300 27,400 24,800 22,700	39,900 * 38,500 * 37,600 * 35,400 * 34,300 32,000 29,200 26,600 24,200 22,200
Load Padius (tt) 15.0 16.0 17.0 18.0 19.0 20.0 22.0 24.0 24.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 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 63,000 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	2 Degree Machine List  53,600 * 51,800 * 49,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800	Load Padius (tt) 16.0 17.0 18.0 19.0 20.0 22.0 24.0 26.0 32.0 34.0 36.0 38.0 40.0 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 69.7 68.2 66.6 65.1 63.5 61.8 60.2 58.5 56.8 55.1 50.5 45.7	3.0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100 32,700 29,200	81,800 74,100 67,700 62,200 57,500 53,500 44,100 41,600 39,300 37,300 31,500 28,300	58,100 * 57,100 * 57,100 * 57,100 * 57,000 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 * 40,400 * 39,000 * 37,700 36,200 34,800 33,600 30,000 27,200	Load Radius (tt) 17.0 18.0 19.0 20.0 22.0 24.0 36.0 38.0 34.0 34.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 77.8 68.0 66.6 65.2 63.8 62.4 60.9 59.4 55.7 51.7 47.4	30 Degree Machine List 125,800 * 125,800 * 125,800 * 125,800 * 124,000 * 110,800 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	73,000 * 60° Patece 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 * 49,000 * 47,000 44,200 41,700 39,500 37,400 35,600 34,000 30,300 27,400 24,800	39,900 * 38,500 * 37,600 * 35,400 * 34,300 32,000 29,200 26,600 24,200
Load Padius (tt) 15.0 16.0 17.0 18.0 19.0 22.0 24.0 24.0 34.0 34.0 36.0 38.0 40.0 44.0 46.0 48.0 55.0 60.0	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 36.9	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,500 64,200 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 * 53,600 * 51,800 * 44,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Load Fadius (tt) 16.00 17.00 18.00 19.00 22.00 22.00 24.00 33.00 34.00 34.00 34.00 44.00 44.00 45.00 55.00 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	3.0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100 32,700 29,200 26,300 24,100	81,800 74,100 67,700 62,200 57,500 53,500 44,100 41,600 39,300 37,300 35,500 31,500 28,300 25,700 23,400	58,100 * 57,100 * 57,100 * 57,100 * 57,100 * 51,000 47,800 42,400 40,100 38,000 36,200 34,500 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 Padius (ft) 17.00 18.00 19.00 22.00 24.00 26.00 33.00 34.00 34.00 44.00 44.00 44.00 55.00 60.00 65.00 75.00	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 73.5 72.1 70.8 69.4 68.0 66.6 65.2 63.8 62.4 60.9 55.7 51.7 47.4 42.9 37.9	30 Degree Machine List 125,800 * 125,800 * 125,800 * 124,000 * 112,500 * 100,800 89,100 66,600 61,600 53,100 49,300 46,500 43,700 40,900 38,900 32,500 29,000 26,100 23,800 21,800	73,000 * 60° Fatece 1 Degree Machine List  73,000 * 66,900 61,600 56,900 53,000 49,500 44,300 43,600 41,100 38,900 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 * 35,400 * 34,300 32,000 29,200 26,600 24,200 22,200 20,500
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 44.0 46.0 48.0 55.0 60.0 65.0	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 36.9	## Company	92,400 82,800 75,000 68,500 68,500 68,500 68,500 64,200 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 * 53,600 * 51,800 * 44,900 * 47,900 * 45,800 41,500 39,700 37,700 35,900 34,300 30,800 28,100	Load Padius (tt) 16.0 17.0 18.0 19.0 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	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	3.0 Degree Machine List 151,000 * 149,300 * 146,500 * 139,400 * 131,800 115,100 101,000 89,200 72,800 66,600 61,600 57,300 53,100 49,300 46,600 43,800 41,100 39,100 37,100 32,700 29,200 26,300 24,100	81,800 74,100 67,700 62,200 57,500 53,500 44,100 41,600 39,300 37,300 35,500 31,500 28,300 25,700 23,400	58,100 * 57,100 * 57,100 * 57,100 * 57,100 * 51,000 47,800 42,400 40,100 38,000 36,200 34,500 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) 17.0 18.0 19.0 22.0 24.0 24.0 38.0 38.0 34.0 38.0 44.0 46.0 48.0 50.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 81.9 81.3 80.7 77.4 76.1 74.8 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  ## Com	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 * 44,000 * 44,000 39,500 37,400 35,600 22,700 20,800 19,300 19,300	39,900 * 38,500 * 37,600 * 36,400 * 34,300 32,000 29,200 26,600 24,200 22,200 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 (lb	ns)				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	Padius (ft)	Angle (deg.)	Machine List	Machine List	Machine List	Machine List	Padius (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 24.0	79.9 78.7	112,200 * 100,600				24.0 26.0	79.7 78.6	96,500 * 88,500 *				26.0 28.0	79.6 78.6	88,000 * 79,900			
26.0	77.5	88,900				28.0	77.6	80,200				30.0	77.7	72,200			
28.0	76.3	80,200				30.0	76.5	72,400				32.0	76.7	66,100			
30.0	75.1 74.0	72,400 66,300	60.000			32.0	75.4 74.3	66,300	EE 000 *			34.0 36.0	75.7	61,100 56,800	53,000 *		
32.0 34.0	72.8	61,300	60,800 56,300			34.0 36.0	73.2	61,300 57,000	55,900 * 51,900			38.0	74.7 73.7	52,500	51,300 47,900		
36.0	71.6	57,000	52,300	43,500 *		38.0	72.2	52,700	48,600			40.0	72.7	48,700	45,000	33,900 *	
38.0	70.3	52,700	48,900	42,900 *		40.0	71.1	48,900	45,500	37,900 *		42.0	71.7	45,800	42,200	33,400 *	
40.0	69.1	48,900	45,800	42,400 *	34,800 *	42.0	70.0 68.9	46,200	42,900	37,500 *	28,900 *	44.0	70.7 69.7	43,000	39,800	33,000 * 32,800 *	
42.0 44.0	67.9 66.6	46,200 43,400	43,100 40,700	40,900 * 38,800	33,500 * 32,500 *	44.0 46.0	67.8	43,400 40,700	40,400 38,200	37,000 * 36,200 *	28,600 *	46.0 48.0	68.6	40,200 38,300	37,600 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	64.1	38,700	36,500	35,000	30,900 *	50.0	65.4	36,600	34,500	32,900	27,900 *	55.0	65.0	32,000	30,200	28,900	24,300 *
50.0 55.0	62.8 59.5	36,600 32,300	34,700 30,800	33,400 29,700	30,000 * 27,800 *	55.0 60.0	62.5 59.5	32,300 28,700	30,500 27,400	29,400 26,400	27,200 * 25,500	60.0 65.0	62.3 59.6	28,300 25,400	27,100 24,400	26,000 23,500	23,600 * 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 80.0	44.8 40.5	21,400 19,600	20,700 19,200	20,300 18,800	20,000 18,500	80.0 85.0	46.4 42.6	19,600 18,100	19,000 17,700	18,600 17,300	18,200 17,000	85.0 90.0	47.7 44.3	17,700 16,500	17,200 15,900	16,700 15,600	16,300 15,300
85.0	36.0	18,100	17,700	17,500	17,200	90.0	38.6	16,800	16,400	16,100	15,700	95.0	40.7	15,300	14,800	14,500	14,300
90.0	30.5	16,900	16,500	16,300	16,100	95.0	34.1	15,600	15,200	15,000	14,800	100.0	36.9	14,200	13,800	13,600	13,400
95.0	24.0	15,800	15,400	15,300	15,100	100.0	29.1	14,600	14,300	14,200	14,000	110.0	27.8	12,600	12,200	12,000	11,900
$\sqcup$		_	_	_	_	105.0	23.2	13,770	13,500	13,300	_	115.0	22.2	11,840	11,500	_	_
Hee	ves	5 <b>Boo</b> l	4	2	2	Hee	eves	4   Boo	4	2	2	Hee	eves	4 0' Boo	4	2	2
	- 1																
	100						170						130				
, , ,		30	60° Pated	d Load (lb		, ,		3	60° Pated	` · ·				3	60° Pated	. `	
Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List		d Load (Ib 2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)			Load (Ib 2 Degree Machine List	2 Degree Machine List	Load Radius (ft)	Boom Angle (deg.)	0 Degree Machine List		d Load (Ib 2 Degree Machine List	2 Degree Machine List
Radius (ft) 24.0	Boom Angle (deg.) 81.3	O Degree Machine List 85,100 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Padius (ft) 24.0	Boom Angle (deg.) 81.9	O Degree Machine List 72,900 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0	Boom Angle (deg.) 81.7	O Degree Machine List 62,200 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine
### Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.3 80.4	0 Degree Machine List 85,100 * 83,900 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	### Radius (ft) 24.0 26.0	Boom Angle (deg.) 81.9 81.1	0 Degree Machine List 72,900 * 71,800 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	### Radius (ft) 26.0 28.0	Boom Angle (deg.) 81.7 80.9	3 0 Degree Machine List 62,200 * 61,300 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine
Radius (ft) 24.0	Boom Angle (deg.) 81.3	O Degree Machine List 85,100 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Padius (ft) 24.0	Boom Angle (deg.) 81.9	O Degree Machine List 72,900 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0	Boom Angle (deg.) 81.7	O Degree Machine List 62,200 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7	0 Degree Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 81.9 81.1 80.3 79.4 78.6	72,900 * 71,800 * 70,800 * 69,000 * 64,700 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.7 80.9 80.1 79.4 78.6	0 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9	0 Degree Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8	70 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 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 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600	60° Pateo 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	80.0m Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9	72,900 * 71,800 * 69,000 * 64,700 * 60,500 56,200	60° Rateo 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	80.0m Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 *	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine
24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9	0 Degree Machine List 85,100 * 83,900 * 78,200 * 71,900 65,900 60,900	60° Rateo 1 Degree Machine	2 Degree Machine	2 Degree Machine	24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8	70 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500	60° Patecc 1 Degree Machine List 41,500 *	2 Degree Machine	2 Degree Machine	26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 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 *	60° Rateo 1 Degree Machine	2 Degree Machine	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	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2	30 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600	60° Patecc 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	Boom Angle (deg.) 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 * 60,500 * 60,500 \$ 52,000 48,200 45,400	60° Patece 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	80.07 80.1 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 45,200 42,400	60° Patece  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 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	30 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800	60° Patece 1 Degree Machine List  46,400 * 44,500 41,700 39,400	2 Degree Machine List	2 Degree Machine	Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0	Boom Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5	72,900 * 71,800 * 70,800 * 69,000 * 60,500 52,000 48,200 45,400 42,600	60° Patece 1 Degree Machine List  41,500 * 40,600 * 38,900	2 Degree Machine	2 Degree Machine	Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 40.0 42.0 44.0 46.0	80.07 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.9	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 45,200 42,400 39,600	1 Patece Machine List 37,100 * 36,600 * 35,800 *	2 Degree Machine	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	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2	30 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600	60° Patecc 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	Boom Angle (deg.) 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 * 60,500 * 60,500 \$ 52,000 48,200 45,400	60° Patece 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	80.07 80.1 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 48,000 45,200 42,400	60° Patece  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 50.0	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	0 Degree Machine 11st 11st 11st 11st 11st 11st 11st 11s	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	Boom (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	72,900 * 71,800 * 70,800 * 69,000 * 60,500 52,000 45,400 42,600 39,800 37,800 35,800	41,500 * 40,600 * 38,900 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	Boom Angle (deg.) 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	30 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 35,500 31,200	37,100 * 36,600 * 34,500 * 32,800 * 29,000	2 Degree Machine List 23,300 * 22,700 *	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 55.0	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	0 Degree Machine 11st 11st 11st 11st 11st 11st 11st 11s	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700	29,700 * 29,400 * 29,100 * 29,100 * 28,700 * 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	81.9 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	72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 52,000 48,200 42,600 39,800 37,800 35,800 31,400	41,500 * 40,600 * 38,900 34,900 33,200 29,400	2Degree 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	Boom Angle (deg.) 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	30 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 35,500 31,200 27,600	37,100 * 36,600 * 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 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0	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	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 40,000 38,000 31,600 28,100	46,400 * 44,500 41,700 37,200 35,300 33,600 29,700 26,600	29,700 * 29,400 * 29,100 * 28,700 * 27,900 * 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 44.0 46.0 48.0 50.0 55.0 60.0	81.9 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	72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 52,000 48,200 45,400 42,600 39,800 37,800 35,800 31,400 27,800	41,500 * 40,600 * 38,900 33,200 29,400 26,200	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 44.0 46.0 48.0 50.0 65.0	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 68.2 66.2	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 51,000 * 42,400 37,500 31,200 27,600 24,800	37,100 * 36,600 * 34,500 32,800 29,000 25,800 23,300	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 40.0 42.0 44.0 46.0 48.0 50.0 55.0	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	0 Degree Machine 11st 11st 11st 11st 11st 11st 11st 11s	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700	29,700 * 29,400 * 29,100 * 29,100 * 28,700 * 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	81.9 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	72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 52,000 48,200 42,600 39,800 37,800 35,800 31,400	41,500 * 40,600 * 38,900 34,900 33,200 29,400	2Degree 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	Boom Angle (deg.) 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	30 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 35,500 31,200 27,600	37,100 * 36,600 * 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 55.0 60.0 65.0 70.0 75.0	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	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 55,600 52,300 48,400 42,800 40,000 31,600 28,100 25,200 22,900 20,900	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 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	Padius (ft)  24.0 26.0 28.0 30.0 34.0 34.0 36.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 71.0 68.8 66.6 64.3 62.0 59.7	30 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 64,700 * 60,500 55,200 42,600 39,800 31,400 27,800 25,000 22,600 20,500	41,500 * 40,600 * 38,900 34,900 33,200 29,400 26,200 23,500 21,300 19,500	25,100 * 24,500 * 22,400 * 22,400 * 20,500 18,700	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 17,400 *	Padius (ft)  26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 44.0 44.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.7 80.9 80.1 79.4 78.6 77.8 77.0 76.3 75.5 74.7 73.1 72.3 70.3 68.2 66.2 64.0 61.9 59.6	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600 37,500 35,500 31,200 22,400 20,300 18,500 18,500	37,100 * 36,600 * 35,800 * 34,500 29,000 25,800 23,300 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 38.0 40.0 44.0 46.0 48.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600 24,100 21,900 20,000 18,300	29,700 * 29,400 * 29,100 * 29,100 * 29,100 * 22,500 * 21,100 19,300 17,700	21,700 * 21,200 * 20,700 * 20,000 * 18,700 17,200	Padius (ft)  24.0 26.0 28.0 30.0 34.0 34.0 36.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0	Boom Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 71.0 68.8 66.6 64.3 62.0 59.7 57.3	30 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 42,600 39,800 31,400 27,800 25,000 22,600 20,500 18,700	41,500 * 41,500 * 40,600 * 38,900 36,800 34,900 33,200 29,400 26,200 23,500 21,300 19,500 17,800	25,100 * 24,500 * 22,400 * 22,400 * 20,500 18,700 17,200	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 17,400 * 16,600	Padius (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	Boom 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 68.2 66.2 64.0 61.9 59.6 57.4	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600 37,500 27,600 24,800 22,400 20,300 18,500 17,000	37,100 * 36,600 * 35,800 * 34,500 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	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 72.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 40,000 31,600 28,100 25,200 22,900 20,900 19,000 17,500	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600 24,100 21,900 20,000 18,300 16,900	29,700 * 29,400 * 29,100 * 29,100 * 29,100 * 22,500 * 21,100 19,300 17,700 16,400	21,700 * 21,200 * 20,700 * 20,000 * 18,700 16,000	Padius (ft)  24.0 26.0 28.0 30.0 34.0 34.0 36.0 40.0 44.0 45.0 55.0 60.0 65.0 77.0 80.0 85.0	Room Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 71.0 68.8 66.6 64.3 62.0 59.7 57.3 54.8	30 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 27,800 22,600 20,500 18,700 17,200	41,500 * 40,600 * 38,900 29,400 22,500 21,300 19,500 17,800 16,400	25,100 * 24,500 * 22,400 * 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	Padius (ft)  26.0 28.0 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 75.0 80.0 85.0 90.0	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 68.2 66.2 64.0 61.9 59.6 57.4 55.2	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600 37,500 22,600 22,400 20,300 18,500 17,000 15,700	37,100 * 36,600 * 34,500 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
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 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.9 75.0 74.1 73.2 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 40,000 38,000 31,600 28,100 25,200 22,900 20,900 19,000	46,400 * 44,500 41,700 39,400 37,200 35,300 33,600 29,700 26,600 24,100 21,900 20,000 18,300	29,700 * 29,400 * 29,100 * 29,100 * 29,100 * 22,500 * 21,100 19,300 17,700	21,700 * 21,200 * 20,700 * 20,000 * 18,700 17,200	Padius (ft)  24.0 26.0 28.0 30.0 34.0 34.0 36.0 42.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0	Boom Angle (deg.) 81.9 81.1 80.3 79.4 78.6 77.8 76.9 76.1 75.2 74.4 73.5 71.0 68.8 66.6 64.3 62.0 59.7 57.3	30 Degree Machine List 72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 42,600 39,800 31,400 27,800 25,000 22,600 20,500 18,700	41,500 * 41,500 * 40,600 * 38,900 36,800 34,900 33,200 29,400 26,200 23,500 21,300 19,500 17,800	25,100 * 24,500 * 22,400 * 22,400 * 20,500 18,700 17,200	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 17,400 * 16,600	Padius (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	Boom 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 68.2 66.2 64.0 61.9 59.6 57.4	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600 37,500 27,600 24,800 22,400 20,300 18,500 17,000	37,100 * 36,600 * 35,800 * 34,500 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	16,800 * 16,500 * 16,100 * 15,700 * 15,400 * 14,900 *
Redius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 65.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0 100.0	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 70.4 667.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6 42.4	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 31,600 28,100 22,900 20,900 19,000 17,500 16,100 15,000 14,000	46,400 * 46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 21,900 21,900 18,300 16,900 15,700 14,600 13,600	29,700 * 29,400 * 29,100 * 25,500 * 23,100 * 21,100 * 19,300 * 17,700 * 16,400 * 15,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 14,200 * 13,300 * 14,200 * 14,200 * 13,300 * 14,200 * 14,	21,700 * 21,200 * 20,700 * 13,900 13,000	Padius (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 67.0 775.0 80.0 85.0 99.0 95.0 100.0	Room 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 66.8 66.6 66.3 62.0 59.7 57.3 54.8 52.2 49.5	72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600 39,800 37,800 20,500 18,700 17,200 15,900 14,600 13,600 13,600	41,500 * 40,600 * 33,200 29,400 26,200 21,300 19,500 17,800 16,400 15,200 14,100 13,100	25,100 * 24,500 * 22,400 * 20,500 17,200 15,800 14,700 13,700 12,800	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,400 * 16,600 15,400 14,300 13,300 12,500	Padius (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 85.0 90.0 95.0 100.0 110.0	Boom 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 76.3 68.2 66.2 64.0 61.9 59.6 57.4 55.2 52.8 50.3 45.1	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600 37,500 31,500 27,600 22,400 20,300 18,500 17,000 15,700 14,400 13,400 11,700	37,100 * 36,600 * 35,800 * 32,800 29,000 17,600 16,200 14,900 13,800 12,800 11,200	23,300 * 22,700 * 22,000 * 20,100 * 18,300 17,000 13,300 12,500 10,900	16,800 * 16,500 * 16,100 * 15,700 * 14,000 * 14,000 12,100 10,700
Redius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 60.0 65.0 70.0 80.0 90.0 95.0 100.0 110.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6 42.4 35.4	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 28,100 25,200 22,900 20,900 19,000 17,500 16,100 15,000 12,100	46,400 * 46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 21,900 21,900 16,900 15,700 14,600 13,600 11,900	29,700 * 29,400 * 29,100 * 29,100 * 25,500 * 23,100 * 21,100 * 19,300 * 17,700 * 16,400 * 15,300 * 14,200 * 13,300 * 11,700	21,700 * 21,200 * 20,700 * 13,900 13,000 11,600	Padius (ft)  24.0 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 70.0 85.0 99.0 99.0 110.0	Room 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 66.8 66.6 66.3 62.0 59.7 57.3 54.8 52.2 49.5 46.8 40.8	72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600 39,800 37,800 27,800 20,500 18,700 17,200 15,900 14,600 13,600 11,900	41,500 * 41,500 * 40,600 * 38,900 34,900 29,400 26,200 23,500 21,300 19,500 17,800 16,400 15,200 14,100 13,100 11,400	25,100 * 24,500 * 22,400 * 20,500 18,700 15,800 14,700 13,700 12,800 11,200	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 16,600 15,400 14,300 13,300 12,500 11,000	Padius (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	Boom 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 66.0 61.9 59.6 57.4 55.2 52.8 50.3 45.1 39.3	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600 37,500 31,500 27,600 24,400 20,300 18,500 17,000 15,700 14,400 13,400 11,700 10,300	37,100 * 36,600 * 35,800 * 32,800 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800 11,200 9,900	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 14,400 13,300 12,500 10,900 9,600	2 Degree Machine List  16,800 * 16,100 * 15,700 * 15,400 * 14,000 12,100 10,700 9,400
Redius (ft)  24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 42.0 44.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0 110.0 120.0	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 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6 42.4 35.4 26.6	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 31,600 28,100 25,200 22,900 29,900 19,000 17,500 16,100 15,000 14,000 12,100 10,800	46,400 * 46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 21,900 21,900 15,700 14,600 13,600 11,900 10,600	29,700 * 29,400 * 29,100 * 25,500 * 23,100 * 21,100 * 19,300 * 17,700 * 16,400 * 15,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 14,200 * 13,300 * 14,200 * 13,300 * 14,200 * 14,200 * 13,300 * 14,200 * 14,200 * 13,300 * 14,200 * 14,	21,700 * 21,200 * 20,700 * 18,700 13,900 13,000	Padius (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 65.0 70.0 85.0 99.0 99.0 110.0 1120.0	Room 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 66.6 66.3 62.0 59.7 57.3 54.8 52.2 49.5 46.8 40.8 34.0	72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600 39,800 37,800 27,800 20,500 18,700 15,900 11,900 11,900 10,300	41,500 * 41,500 * 40,600 * 38,900 36,800 34,900 29,400 26,200 23,500 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	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,400 * 16,600 14,300 13,300 12,500 11,000 9,800	Padius (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 70.0 75.0 80.0 95.0 100.0 110.0 120.0 130.0	Boom 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 66.0 61.9 59.6 57.4 55.2 52.8 50.3 45.1 39.3 32.8	30 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 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 * 34,500 * 32,800 * 29,000 * 21,100 * 19,200 * 17,600 * 16,200 * 14,900 * 13,800 * 12,800 * 11,200 * 9,900 * 8,800 * 8,800	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 13,300 12,500 10,900 9,600 8,600	2 Degree Machine List  16,800 * 16,700 * 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 60.0 65.0 70.0 80.0 90.0 95.0 100.0 110.0	Boom Angle (deg.) 81.3 80.4 79.5 78.6 77.7 76.9 75.0 74.1 73.2 71.3 70.4 69.4 67.1 64.6 62.2 59.6 57.0 54.3 51.6 48.7 45.6 42.4 35.4	0 Degree Machine List 85,100 * 83,900 * 71,900 65,900 60,900 56,600 52,300 48,400 45,600 42,800 40,000 38,000 28,100 25,200 22,900 20,900 19,000 17,500 16,100 15,000 12,100	46,400 * 46,400 * 44,500 41,700 39,400 37,200 35,300 29,700 26,600 24,100 21,900 21,900 16,900 15,700 14,600 13,600 11,900	29,700 * 29,400 * 29,100 * 29,100 * 25,500 * 23,100 * 21,100 * 19,300 * 17,700 * 16,400 * 15,300 * 14,200 * 13,300 * 11,700	21,700 * 21,200 * 20,700 * 13,900 13,000 11,600	Padius (ft)  24.0 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 70.0 85.0 99.0 99.0 110.0	Room 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 66.8 66.6 66.3 62.0 59.7 57.3 54.8 52.2 49.5 46.8 40.8	72,900 * 71,800 * 70,800 * 69,000 * 60,500 56,200 52,000 48,200 45,400 42,600 39,800 37,800 27,800 20,500 18,700 17,200 15,900 14,600 13,600 11,900	41,500 * 41,500 * 40,600 * 38,900 34,900 29,400 26,200 23,500 21,300 19,500 17,800 16,400 15,200 14,100 13,100 11,400	25,100 * 24,500 * 22,400 * 20,500 18,700 15,800 14,700 13,700 12,800 11,200	2 Degree Machine List  19,200 * 18,700 * 18,300 * 17,900 * 16,600 15,400 14,300 13,300 12,500 11,000	Padius (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	Boom 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 66.0 61.9 59.6 57.4 55.2 52.8 50.3 45.1 39.3	30 Degree Machine List 62,200 * 61,300 * 60,400 * 59,400 * 57,200 * 54,100 * 45,200 42,400 39,600 37,500 31,500 27,600 24,400 20,300 18,500 17,000 15,700 14,400 13,400 11,700 10,300	37,100 * 36,600 * 35,800 * 32,800 29,000 25,800 21,100 19,200 17,600 16,200 14,900 13,800 11,200 9,900	23,300 * 22,700 * 21,600 * 20,100 * 18,300 17,000 14,400 13,300 12,500 10,900 9,600	2 Degree Machine List  16,800 * 16,500 * 16,100 * 15,700 * 15,400 * 14,900 * 14,900 * 12,100 10,700 9,400

Barge

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

	160	)' Booi	m				170	)' Boo	m				180	)' Boo	m		
	100			d Load (lk	201		170			d Load (lk	201		100			d Load (lk	201
Load	Boom	0 Degree	1 Degree	d Load (II)   2 Degree	2 Degree	Load	Boom	0 Degree	60° Rateo 1 Degree	2 Degree	2 Degree	Load	Boom	0 Degree	60° Pateo 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
28.0	81.5	50,200 *	LISI	LISI	LISI	30.0	81.3	44,500 *	ЦЗ	LIX	Цз	30.0	81.8	39,300 *	LIX	LISI	LISC
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	79.4	49,200 *				36.0	79.3	42,500 *				36.0	79.9	37,600 *			
36.0	78.6	48,500 *				38.0	78.6	41,900 *				38.0	79.2	37,000 *			
38.0 40.0	77.9 77.2	47,800 * 46,600 *				40.0 42.0	77.9 77.2	41,200 * 40,600 *				40.0 42.0	78.6 77.9	36,400 * 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 *				46.0	76.6	34,500 *			
46.0	74.9	39,800	31,700 *			48.0	75.1	37,400 *	28,400 *			48.0	75.9	33,900 *			
48.0 50.0	74.1 73.4	37,800	31,300 * 31,000 *			50.0 55.0	74.4 72.6	35,400 *	28,100 * 27,100 *	17,700 *		50.0 55.0	75.3 73.7	33,300 * 30,800 *	24 200 *		
55.0	71.5	35,800 31,400	28,900 *	20,000 *		60.0	70.9	31,200 27,600	25,400*	17,700 *		60.0	72.0	27,400	24,200 * 22,900 *	15,300 *	
60.0	69.6	27,800	26,000	19,300*		65.0	69.1	24,600	23,000	16,900 *		65.0	70.3	24,400	21,800 *	15,100 *	
65.0	67.7	25,000	23,400	18,900 *	14,400 *	70.0	67.3	22,300	20,900	16,400 *	12,400 *	70.0	68.6	21,900	20,400 *	14,600 *	10,800 *
70.0	65.8	22,600	21,200	18,500 *	14,000 *	75.0	65.4	20,300	19,000	16,000 *	12,200 *	75.0	66.9	19,900	18,700	14,200 *	10,600 *
75.0	63.8	20,500	19,300	18,000 *	13,700 *	80.0	63.5	18,500	17,400	15,600 *	11,800 *	80.0	65.2	18,100	17,100	13,800 *	10,400 *
80.0 85.0	61.8 59.7	18,700 17,000	17,700 16,300	16,900 15,600	13,400 * 13,100 *	85.0 90.0	61.6 59.7	16,800 15,400	16,000 14,700	15,300 * 14,000	11,500 * 11,300 *	85.0 90.0	63.4 61.6	16,600 15,200	15,700 14,400	13,500 * 12,900 *	10,000 * 9,700 *
90.0	57.6	15,700	15,000	14,300	12,800 *	95.0	57.8	14,300	13,600	13,200	11,100 *	95.0	59.8	14,000	13,200	12,200 *	9,500 *
95.0	55.4	14,500	13,900	13,500	12,400 *	100.0	55.8	13,300	12,600	12,100	10,800 *	100.0	57.9	12,900	12,300	11,600 *	9,300*
100.0	53.2	13,500	12,900	12,400	12,000	110.0	51.5	11,500	10,900	10,600	10,100 *	110.0	54.0	11,100	10,600	10,300	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 *
120.0 130.0	43.6 38.1	10,100 8,900	9,800 8,600	9,600 8,500	9,300 8,300	130.0 140.0	42.2 36.8	8,700 7,700	8,400 7,300	8,200 7,100	8,000 7,000	130.0 140.0	45.6 40.9	8,500 7,400	8,000 7,000	7,700 6,900	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	29.7	5,600	5,400	5,000 *	4,200 *
												165.0	26.5	5,100	5,100	4,400 *	3,600 *
Rec	eves	2	2	2	2	Rec	eves	2	2	2	2	Rec	eves	2	2	2	2
	190	)' Bool	m				200	)' Boo	m								
				d Load (III					60° Pated								
Load Padius	Boom Angle	0 Degree Machine	60° Rateo 1 Degree Machine	d Load (III 2 Degree Machine	2 Degree Machine	Load Radius	Boom Angle	3 0 Degree Machine	60° Pateo 1 Degree Machine	Load (Ib 2 Degree Machine	2 Degree Machine						
Padius (ft)	Angle (deg.)	0 Degree Machine List	1 Degree	2 Degree	2 Degree	Radius (ft)	Angle (deg.)	0 Degree Machine List	1 Degree	2 Degree	2 Degree						
Radius (ft)	Angle (deg.) 81.6	O Degree Machine List 34,400 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0	Angle (deg.) 81.5	O Degree Machine List 30,300 *	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 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0 36.0	Angle (deg.) 81.5 80.9	0 Degree Machine List 30,300 * 29,700 *	1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (ft)	Angle (deg.) 81.6	0 Degree Machine List 34,400 * 33,800 * 33,300 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	Radius (ft) 34.0	Angle (deg.) 81.5	0 Degree Machine List 30,300 * 29,700 * 29,200 *	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 * 32,700 * 32,200 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	### Radius (ft) 34.0 36.0 38.0	Angle (deg.) 81.5 80.9 80.3	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 *	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	0 Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 *	1 Degree Machine	2 Degree Machine	2 Degree Machine	34.0 36.0 38.0 40.0 42.0 44.0	81.5 80.9 80.3 79.7 79.1 78.6	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 *	1 Degree Machine	2 Degree Machine	2 Degree Machine						
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	0 Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 *	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	81.5 80.9 80.3 79.7 79.1 78.6 78.0	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 *	1 Degree Machine	2 Degree Machine	2 Degree Machine						
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 *	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	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4	0 Degree Machine List 30,300 * 29,700 * 28,700 * 28,200 * 27,700 * 27,700 * 27,300 * 26,800 *	1 Degree Machine	2 Degree Machine	2 Degree Machine						
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	0 Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 31,100 *	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	81.5 80.9 80.3 79.7 79.1 78.6 78.0	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 *	1 Degree Machine	2 Degree Machine	2 Degree Machine						
32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0	81.6 81.0 80.4 79.8 79.2 78.6 78.0 77.4 76.7	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	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	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 *	1 Degree Machine	2 Degree Machine	2 Degree Machine						
Radius (tt) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 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 * 31,700 * 31,100 * 30,600 * 30,100 * 29,600 * 28,100 * 26,200 *	1 Degree Machine List  21,700 * 20,600 *	2 Degree Machine List	2 Degree Machine	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0	81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 75.3 73.8 72.4	0 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 *	1 Degree Machine List  18,200 * 17,100 *	2 Degree Machine List	2 Degree Machine						
Radius (tt) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0	81.6 81.0 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 * 31,100 * 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 55.0 60.0 65.0 70.0	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	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 *	1 Degree Machine List  18,200 * 17,100 * 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 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 * 26,200 * 24,000 * 21,800	1 Degree Machine List  21,700 * 20,600 * 19,500 * 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	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	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 *	18,200 * 17,100 * 16,100 * 15,100 *	2 Degree Machine List  11,700 * 11,300 * 11,000 *	2 Degree Machine List						
Radius (tt) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 48.0 50.0 65.0	81.6 81.0 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 * 31,100 * 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 55.0 60.0 65.0 70.0	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	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 *	1 Degree Machine List  18,200 * 17,100 * 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 55.0 60.0 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 * 30,600 * 30,100 * 29,600 * 24,000 * 21,800 19,900	1 Degree Machine List  21,700 * 20,600 * 19,500 * 18,400 * 17,300 *	2 Degree Machine List  13,300 * 13,100 * 12,700 * 12,400 * 11,900 *	2 Degree Machine List  9,200 * 9,000 * 9,000 * 8,800 *	Radius (ft) 34.0 36.0 38.0 40.0 42.0 44.0 46.0 65.0 65.0 70.0 75.0 80.0 85.0 90.0	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	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,300 * 24,900 * 23,200 * 21,500 * 20,000 * 18,500 * 17,100 *	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 *	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 70.0 75.0 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 * 21,800 19,900 18,000 15,000 15,000	21,700 * 20,600 * 19,500 * 16,200 * 15,300 * 14,100	13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 11,300 *	9,200 * 9,000 * 8,800 * 8,600 *	Radius (tt)  34.0 36.0 38.0 40.0 44.0 44.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	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 63.0	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 28,200 * 27,700 * 26,800 * 26,800 * 24,900 * 21,500 * 20,000 * 18,500 * 17,100 * 15,900 * 14,700 13,500	18,200 * 17,100 * 16,100 * 14,100 * 13,300 * 12,400 * 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 50.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0	Angle (deg.) 81.6 81.0 80.4 79.8 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 15,000 13,900	21,700 * 20,600 * 19,500 * 16,200 * 15,300 * 14,100 13,000	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,300 * 10,600 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 *	Radius (tt)  34.0 36.0 38.0 40.0 44.0 44.0 44.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 95.0 100.0	Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 26,800 * 24,900 * 21,500 * 15,900 * 15,900 * 14,700 13,500 12,400	18,200 * 17,100 * 16,100 * 13,300 * 12,400 * 11,700 * 11,000 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 *	7,700 * 7,500 * 7,200 * 7,000 * 6,800 *						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 80.0 95.0 100.0	Angle (deg.) 81.6 81.0 80.4 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	0 Degree Machine List 34,400 * 33,800 * 33,300 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 26,200 * 24,000 * 21,800 19,900 15,000 13,900 12,900	21,700 * 20,600 * 19,500 * 16,200 * 15,300 * 14,100 13,000 12,000	2 Degree Machine List  13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 11,300 * 10,600 * 10,000 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 8,200 *	Radius (t)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 99.0 100.0 110.0	Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1	0 Degree Machine List 30,300 * 29,700 * 29,700 * 28,200 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 17,100 * 14,700 13,500 12,400 10,600	18,200 * 17,100 * 16,100 * 13,300 * 11,700 * 11,700 * 11,700 * 11,700 * 11,700 * 9,500 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,610 * 9,500 * 9,000 * 8,400 * 7,400 *	7,700 * 7,700 * 7,500 * 7,200 * 7,000 * 6,800 * 6,000 *						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 85.0 90.0 95.0	Angle (deg.) 81.6 81.0 81.0 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	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 15,000 13,900	21,700 * 20,600 * 19,500 * 16,200 * 15,300 * 14,100 13,000	13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 11,300 * 10,600 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 *	Radius (tt)  34.0 36.0 38.0 40.0 44.0 44.0 44.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 95.0 100.0	Angle (deg.) 81.5 80.9 80.3 79.7 79.1 78.6 78.0 77.4 76.8 73.8 72.4 70.9 69.3 67.8 66.2 64.6 63.0 61.4 58.1	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,700 * 26,800 * 26,800 * 24,900 * 21,500 * 15,900 * 15,900 * 14,700 13,500 12,400	18,200 * 17,100 * 16,100 * 13,300 * 12,400 * 11,700 * 11,000 *	2 Degree Machine List  11,700 * 11,300 * 11,000 * 10,600 * 10,100 * 9,500 * 9,000 * 8,400 *	7,700 * 7,500 * 7,200 * 7,000 * 6,800 *						
Radius (ft)  32.0 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 90.0 95.0 100.0 110.0	Angle (deg.) 81.6 81.0 81.0 79.8 79.2 78.6 78.0 77.4 76.7 76.1 74.5 73.0 71.4 69.8 68.2 66.9 63.2 61.5 59.7 56.2 52.5	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 30,600 * 29,600 * 26,200 * 21,800 * 24,000 * 21,800 * 15,000 * 15,000 * 13,900 * 12,900 * 11,000 * 10,000 * 11,000 * 11,000 * 11,000 * 11,000 * 11,000 * 11,000 * 12,900 * 11,000 * 12,900 * 11,000 * 12,900 * 11,000 * 12,900 * 11,000 * 12,900 * 11,000 * 13,900 * 11,000 * 12,900 * 11,000 * 12,900 * 11,000 * 13,900 * 11,000 * 12,900 * 11,000 * 12,900 * 11,000 * 13,900 * 12,900 * 11,000 * 12,900 *	21,700 * 20,600 * 18,400 * 16,200 * 14,100 13,000 12,000 10,400	2 Degree Machine List  13,300 * 13,100 * 12,700 * 12,400 * 11,900 * 11,300 * 10,600 * 10,000 * 8,900 *	9,200 * 9,000 * 8,600 * 8,400 * 8,200 * 7,400 *	Radius (tr)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0 70.0 75.0 80.0 95.0 100.0 110.0	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 63.0 61.4 58.1 54.6	0 Degree Machine List 30,300 * 29,700 * 29,700 * 28,200 * 27,700 * 27,300 * 26,800 * 24,900 * 23,200 * 21,500 * 15,900 * 15,900 * 14,700 13,500 12,400 10,600 9,200	18,200 * 17,100 * 16,100 * 13,300 * 11,700 * 11,700 * 11,700 * 11,700 * 11,000 * 9,500 * 8,200 *	2 Degree Machine List  11,700 * 11,300 * 10,600 * 10,600 * 9,500 * 9,000 * 8,400 * 7,400 * 6,500 * 6,500 *	7,700 * 7,500 * 7,000 * 7,000 * 6,800 * 6,000 * 5,200 *						
Radius (ft) 32.0 34.0 36.0 38.0 40.0 42.0 44.0 46.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0 90.0 110.0 110.0 130.0 140.0	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	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 24,000 * 21,800 15,000 15,000 11,900 11,900 11,000 9,400 8,200 7,200	21,700 * 20,600 * 19,500 * 16,200 * 15,300 * 14,100 12,000 10,400 9,100 7,800 6,800	2 Degree Machine List  13,300 * 13,100 * 12,700 * 11,900 * 11,900 * 11,900 * 10,000 * 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 (tr)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 110.0 120.0 130.0 150.0 150.0	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 63.0 61.4 54.6 51.1 47.2 43.1	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 * 21,500 * 21,500 * 15,900 * 15,900 * 14,700 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 * 9,500 * 8,200 * 7,100 * 5,900 * 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 *						
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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 90.0 110.0 120.0 130.0 140.0 150.0 160.0	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 56.2 55.7 56.2 52.5 44.3 39.7 34.8	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,200 * 31,700 * 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 * 19,500 * 16,200 * 15,300 * 14,100 13,000 12,000 10,400 9,100 7,800 6,800 5,900 5,100 *	2 Degree Machine List  13,300 * 13,100 * 12,700 * 12,400 * 11,300 * 10,000 * 7,900 * 6,800 * 5,900 * 5,100 * 4,000 * 4,000 *	9,200 * 9,000 * 8,800 * 8,600 * 8,400 * 7,400 * 6,500 * 5,700 * 4,900 *	Radius (tr)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 110.0 120.0 130.0 150.0 150.0	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 63.0 61.4 54.6 51.1 47.2 43.1	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 * 21,500 * 21,500 * 15,900 * 15,900 * 14,700 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 * 9,500 * 8,200 * 7,100 * 5,900 * 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 * 7,200 * 7,000 * 6,000 * 5,200 * 4,500 * 3,700 *						
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 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 55.5 56.2 55.7 56.2 52.5 44.3 39.7 34.8	0 Degree Machine List 34,400 * 33,800 * 32,700 * 32,700 * 31,700 * 31,100 * 29,600 * 24,000 * 21,800 15,000 113,900 12,900 11,000 9,400 8,200 7,200 6,300	21,700 * 20,600 * 19,500 * 16,200 * 15,300 * 14,100 13,000 12,000 10,400 9,100 7,800 6,800 5,900	2 Degree Machine List  13,300 * 13,100 * 12,700 * 11,900 * 11,900 * 11,900 * 7,900 * 6,800 * 5,900 * 5,100 * 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 (tr)  34.0 36.0 38.0 40.0 44.0 44.0 46.0 48.0 55.0 60.0 65.0 77.0 80.0 85.0 90.0 110.0 120.0 130.0 150.0 150.0	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 63.0 61.4 54.6 51.1 47.2 43.1	0 Degree Machine List 30,300 * 29,700 * 29,200 * 28,700 * 27,700 * 27,300 * 26,800 * 26,300 * 21,500 * 21,500 * 15,900 * 15,900 * 14,700 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 * 9,500 * 8,200 * 7,100 * 5,900 * 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 * 7,200 * 7,000 * 6,000 * 5,200 * 4,500 * 3,700 *						

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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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