

TRUCK CRANE 140 TONS

LINK-BELT HTC-3140LB

BOOM LENGTHS:
42 TO 195 FT

JIB LENGTHS:
38 TO 109 FT

JIB OFFSETS:
2 - 15 - 30 - 45



NOTES:

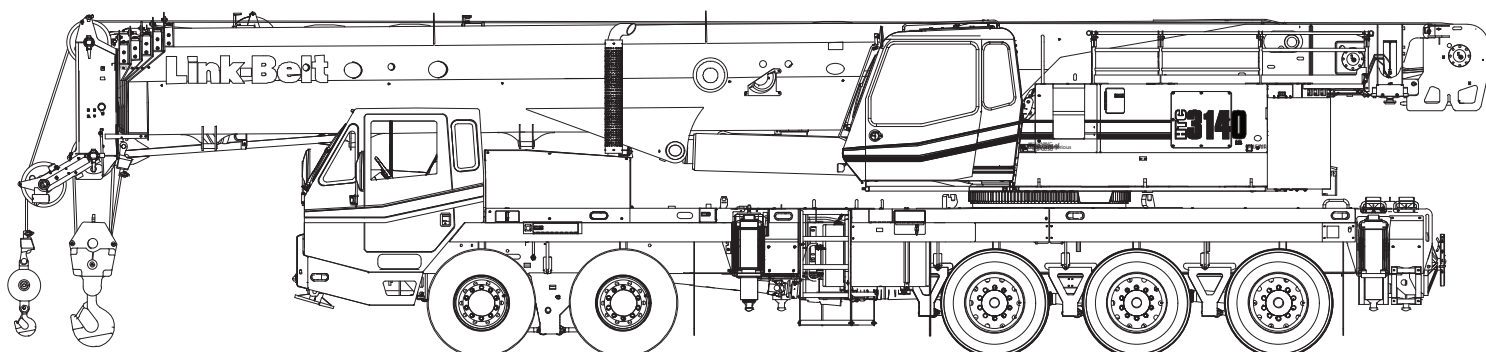
Technical Data

Specifications & Capacities

3140

LB

Telescopic Boom Truck Crane
140 US ton
120 metric ton



CAUTION: This material is supplied for reference use only. Operator must refer to in-cab Crane Rating Manual and Operator's Manual to determine allowable crane lifting capacities and assembly and operating procedures.



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WARNING

READ AND UNDERSTAND THE OPERATORS AND SAFETY MANUALS AND THE FOLLOWING INSTRUCTIONS AND RATED LIFTING CAPACITIES BEFORE OPERATING THE CRANE. OPERATION WHICH DOES NOT FOLLOW THESE INSTRUCTIONS MAY RESULT IN AN ACCIDENT.

Operating Instructions

General:

1. Rated lifting capacities in pounds as shown on lift charts pertain to this crane as originally manufactured and normally equipped by Link-Belt Construction Equipment Company (LBCE). Modifications to the crane or use of optional equipment other than that specified can result in a reduction in capacity.
2. Construction equipment can be dangerous if improperly operated or maintained. Operation and maintenance of this crane must be in compliance with the information in the Operator's, Parts, and Safety Manuals supplied with this crane. If these manuals are missing, order replacements through the distributor.
3. The operator and other personnel associated with this crane shall read and fully understand the latest applicable American National Standards ASME B30.5 safety standards for cranes.
4. The rated lifting capacities are based on crane standing level on firm supporting surface.

Set Up:

1. The crane shall be leveled on a firm supporting surface. Depending on the nature of the supporting surface, it may be necessary to have structural supports under the outrigger pontoons or tires to spread the load to a larger bearing surface.
2. When making lifts on outriggers, all tires must be free of supporting surface. All outrigger beams must be extended to the same length; fully retracted, intermediate extended, or fully extended.
3. When making lifts on tires, they must be inflated to the recommended pressure. (See "Tire Inflation".)
4. When on tires with counterweight combinations of 14,000 lb or less, maintain 45° boom angle with fully retracted boom before swinging to over side position. When on tires, do not swing to over side position with counterweight combinations greater than 14,000 lb.
5. The weight of the auxiliary winch is taken into account as a part of the counterweight. Therefore the auxiliary winch, or auxiliary counterweight, must always be attached on the upper for crane operation with counterweight combinations of 4,000 lb and more. When operating with auxiliary winch or auxiliary counterweight attached, without the top tray in place, use the 0 lb counterweight capacities.
6. For required parts of line, see "Wire Rope Capacity Chart" and "Winch Performance".
7. Before setting up the crane, refer to "Allowable Crane Configurations" and rated lifting capacities to determine allowable crane configurations.

Operation:

1. Rated lifting capacities at rated radius shall not be exceeded. Do not tip the crane to determine allowable loads.
2. Rated lifting capacities shall be reduced for repetitive lift applications. For concrete bucket operation, weight of bucket and load shall not exceed 80% of rated load. For duty cycle operation, such as loading and unloading, maximum allowable load shall not exceed 70% of rated load. For clamshell and magnet operation, weight of bucket, or magnet, and load shall not exceed 70% of rated load. Lifts with fly erected are prohibited for clamshell and magnet operation.
3. Rated lifting capacities shown on fully extended outriggers do not exceed 85% of the tipping loads. Rated lifting capacities shown on intermediate extended or fully retracted outriggers are determined by the formula, rated load = (tipping load — 0.1 X load factor)/1.25. Rated lifting capacities shown on tires do not exceed 75% of the tipping loads. Tipping loads are determined by SAE crane stability test code SAE J765.
4. Rated lifting capacities in shaded areas are governed by factors other than those that would cause a tipping condition.
5. Rated lifting capacities include the weight of the hook block, hook ball, slings, bucket, magnet, auxiliary lifting devices, etc. Their weights must be subtracted from the listed rated capacity to obtain the net load which can be lifted. Rated lifting capacities include the deduct for fly stowed on the base of the boom. For deducts of any fly erected, but not used, see "Capacity Deductions".
6. Rated lifting capacities are based on freely suspended loads. No attempt shall be made to move a load horizontally on the ground in any direction.
7. Rated lifting capacities are for lift crane service only.
8. Do not operate at radii or boom lengths (minimum or maximum) where capacities are not listed. At these positions, the crane can tip or cause boom failure.
9. The maximum loads which can be telescoped are not definable because of variation in loadings and crane maintenance, but it is permissible to attempt retraction and extension within the limits of the applicable load rating chart.



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10. Lifting capacities for boom mode EM5 are for fixed boom lengths only. There is a 15,000 lb (6 804kg) capacity allowed only for the weight of the rigging while telescoping the boom between fixed boom lengths. The rated capacities as shown on the load rating charts are available only when the boom sections are pinned.
11. Main boom capacities, 10' offset fly capacities, and hydraulic offset fly capacities are determined by radius and boom length. When either boom length or radius, or both are between values listed, proceed as follows:
 - a. For boom lengths not listed, use rating for next longer boom length or next shorter boom length, whichever is smaller.
 - b. For load radii not listed, use rating for next larger radius.
12. The user shall operate at reduced ratings to allow for adverse job conditions such as: soft or uneven ground, out of level conditions, wind, side loads, pendulum action, jerking, or sudden stopping of loads, hazardous conditions, experience of personnel, traveling with loads, electrical wires, etc. Side load on boom and/or fly is dangerous and shall be avoided.
13. Rated lifting capacities do not account for the effects of excessive wind on a suspended load or boom. See "Wind Speed Restrictions" for allowed wind speed operation and appropriate capacity reduction.
14. For cold weather operation, rated capacities should be reduced by the following rule: a 1% reduction in rated capacity should be taken for each 1°F below 0°F. Example: if the temperature is -10°F a 10% reduction in rated capacities should be taken, at -40°F a 40% reduction.
15. Heat from the sun only on one side of the boom may cause a temperature differential in the sides of the boom. The thermal effects may cause the boom to distort (bend to one side) creating a side load on the boom and/or fly. Side loading is dangerous and shall be avoided. Refer to the Operator's Manual for more instructions.
16. For auxiliary lifting sheave capacities, use main boom charts minus auxiliary lifting sheave deduct. (See "Capacity Deductions".) The effective length of the boom increases by 2'.
17. Rated lifting capacities are based on correct reeving. A deduction must be made for excessive reeving. Any reeving over minimum required is considered excessive and must be accounted for when making lifts. Use the Working Range Diagram to estimate the extra length of rope, then deduct the required rope weight (listed on the Wire Rope Capacity Chart) for the extra length of wire rope before attempting to lift a load.
18. The loaded boom angle combined with the boom length gives only an approximation of the operating radius. The boom angle, before loading, should be greater to account for deflection. Some capacities are limited by a maximum obtainable 80° boom angle.

19. Offset fly capacities (exceeding 10') are determined by radius only for main boom lengths in the offset fly load charts. For boom lengths other than those shown, the rated capacities are determined by boom angle. When the boom length is between or less than those shown in the offset fly charts, use the next longer boom length chart to determine the rated capacity. For angles not shown use the next lower boom angle to determine the rated capacity. When main boom length is less than the maximum boom length at 0° boom angle shown in the offset fly load charts, 800 lb capacity is allowed only for rigging purposes.
20. The 42.3' boom length structural lifting capacities are based on boom fully retracted. If the boom is not fully retracted, do not exceed capacities shown for the 55' boom length.
21. Rated lifting capacities on tires depend on tire capacity, condition of tires, and tire air pressure. On tire capacities require lifting from main boom head only with the crane supported on a smooth, firm, and level surface. On tire lifting operations require the travel switch to be in the jobsite position. For pick & carry operation, the boom must be centered over the rear of the crane with two position travel swing lock engaged. Travel is limited to 1.0 mph maximum and the load must be restrained from swinging. Lifts on tires with any fly erected are prohibited. For correct tire pressure, see "Tire Inflation".

Definitions:

1. Loaded Boom Angle In Degrees: $\angle$ ° The angle between the boom base section and horizontal with freely suspended load at the rated radius.
2. Load Radius: Horizontal distance from a projection of the axis of rotation to the supporting surface, before loading, to the center of the vertical hoist line or tackle with load applied.
3. Working Area: Area measured in a circular arc about the centerline of rotation as shown on the Working Areas Diagram.
4. Freely Suspended Load: Load hanging free with no direct external force applied except by the hoist line.
5. Side Load: Horizontal side force applied to the lifted load either on the ground or in the air.
6. No Load Stability Limit: The radius or boom angle beyond which it is not permitted to position the boom because the crane can overturn without any load on the hook.
7. Load Factor: Load applied at the boom tip which gives the same moment effect as the boom mass.

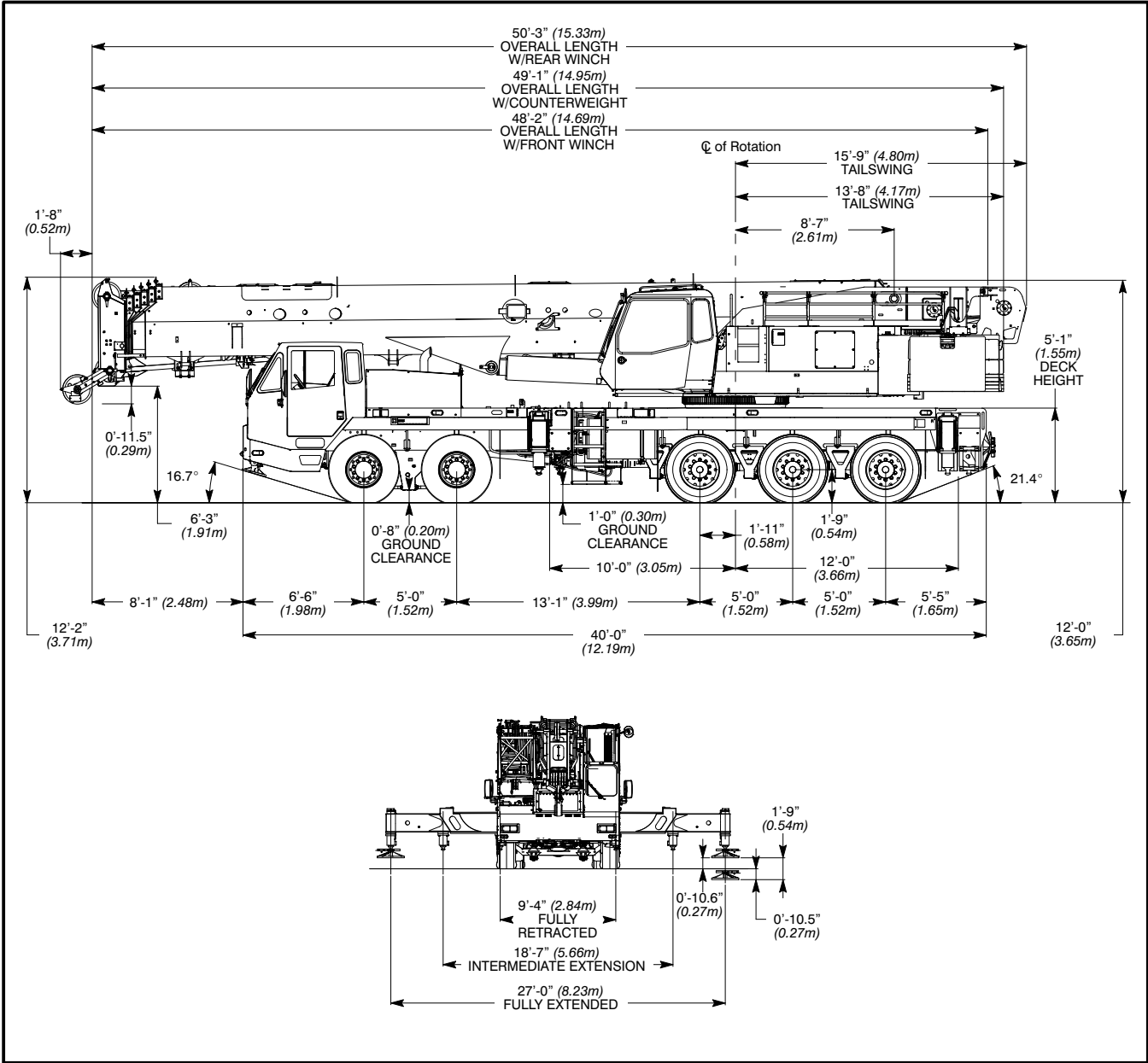
Patents:

1. This crane is covered by one or more of the following patents:

6,131,750	6,357,773
6,499,612	6,601,719
6,308,973	



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Tire Inflation

Tire Size	Operation	Tire Pressure (psi)
12 R 24.5 H	Stationary, Over Rear, 360° 1.0 mph	120
445/65 R 22.5L	Stationary, 360°	131

Pontoon Loadings

Maximum Pontoon Load (lb)	Maximum Pontoon Ground Bearing Pressure (psi)
160,000	301

Boom Extend Modes

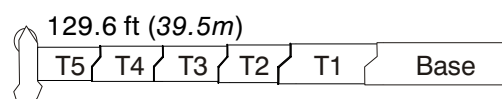
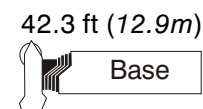
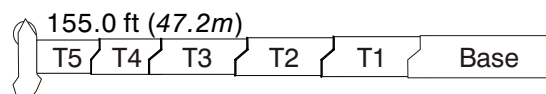
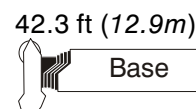
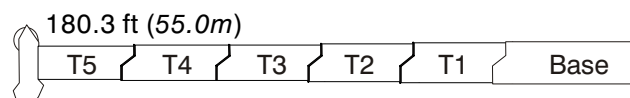
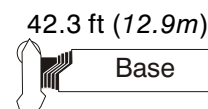
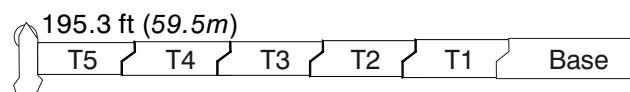
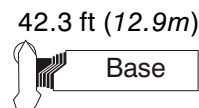
Bm Len. (ft)	Telescope Length (ft)									
	T5	%	T4	%	T3	%	T2	%	T1	%
42.3										
55	12.7	44								
70	27.7	96								
85	28.9	100	13.8	46						
100	28.9	100	28.8	97						
115	28.9	100	29.7	100	14.1	46				
130	28.9	100	29.7	100	29.1	95				
145	28.9	100	29.7	100	30.6	100	13.5	43		
160	28.9	100	29.7	100	30.6	100	28.5	90		
175	28.9	100	29.7	100	30.6	100	31.5	100	12.0	37
185	28.9	100	29.7	100	30.6	100	31.5	100	22.0	68
195.3	28.9	100	29.7	100	30.6	100	31.5	100	32.3	100

	Telescope Length (ft)									
	T5	%	T4	%	T3	%	T2	%	T1	%
42.3										
55	12.7	44								
70	25.9	90	1.8	6						
85	25.9	90	16.8	57						
100	25.9	90	26.7	90	5.1	17				
115	25.9	90	26.7	90	20.1	66				
130	25.9	90	26.7	90	27.6	90	7.5	24		
145	25.9	90	26.7	90	27.6	90	22.5	71		
160	25.9	90	26.7	90	27.6	90	28.5	90	9.0	28
170	25.9	90	26.7	90	27.6	90	28.5	90	19.0	59
180.3	25.9	90	26.7	90	27.6	90	28.5	90	29.3	91

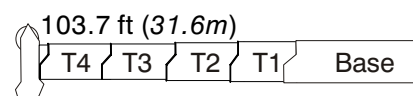
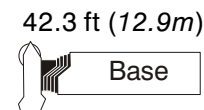
	Telescope Length (ft)									
	T5	%	T4	%	T3	%	T2	%	T1	%
42.3										
55	12.7	44								
70	13.2	46	14.1	47	0.4	1				
85	13.2	46	14.1	47	15.4	50				
100	13.2	46	14.1	47	27.6	90	2.8	9		
115	13.2	46	14.1	47	27.6	90	17.8	45		
130	13.2	46	14.1	47	27.6	90	28.5	90	4.3	13
145	13.2	46	14.1	47	27.6	90	28.5	90	19.3	60
155	13.2	46	14.1	47	27.6	90	28.5	90	29.3	91

	Telescope Length (ft)									
	T5	%	T4	%	T3	%	T2	%	T1	%
42.3										
55	12.7	44								
70	13.2	46	14.1	47	0.4	1				
85	13.2	46	14.1	47	14.9	49	0.5	2		
100	13.2	46	14.1	47	14.9	49	15.5	49		
115	13.2	46	14.1	47	14.9	49	15.8	50	14.7	46
129.6	13.2	46	14.1	47	14.9	49	15.8	50	29.3	91

	Fixed Length (ft)									
	T5	%	T4	%	T3	%	T2	%	T1	%
42.3										
56.4			14.1	47						
71.3			14.1	47	14.9	49				
87.1			14.1	47	14.9	49	15.8	50		
103.7			14.1	47	14.9	49	15.8	50	16.6	51



FIXED



Winch Performance

Wire Rope Layer	Winch Line Pulls		Drum Rope Capacity (ft)	
	Two Speed Winch			
	Low Speed	High Speed	Layer	Total
	Available (lb*)	Available (lb)		
1	21,022	9,474	125	125
2	18,968	8,549	138	263
3	17,280	7,788	152	415
4	15,868	7,151	165	580
5	14,669	6,611	179	759
6	13,639	6,147	192	951
*Maximum lifting capacity: Type RB Rope=17,520 lb and Type ZB Rope=20,920 lb				

Wire Rope Capacity Chart

Maximum Lifting Capacities Based On Wire Rope Strength					Wire Rope Line Pull – Fifth Layer*
Parts of Line	7/8"	7/8"	7/8"	7/8"	
	Type GC	Type RB	Type ZB	Type YB	
1	30,285	17,520	20,920	21,920	14,669
2	60,570	35,040	41,840	43,840	29,338
3	90,855	52,560	62,760	65,760	44,007
4	121,140	70,080	83,680	87,680	58,676
5	151,425	87,600	104,600	109,600	73,345
6	181,710	105,120	125,520	131,520	88,014
7	211,995	122,640	146,440	153,440	102,683
8	242,280	140,160	167,360	175,360	117,352
9	272,565	157,680	188,280	197,280	132,021
10	302,850	175,200	209,200	219,200	146,690
11	—	192,720	230,120	241,120	161,359
12	—	210,240	251,040	263,040	176,028
13	—	227,760	271,960	284,960	190,697
14	—	245,280	292,880	306,880	205,366
Rope Weight - Pounds Per Foot	1.5	1.6	1.5	1.7	N/A
LBCE Type	Description				
GC	4 Strand, Low Torque, Compacted Strand, Right Regular Lay				
RB	18 X 19 Rotation Resistant – Compacted Strand – High Strength Preformed, Right Regular Lay				
ZB	34 X 7 Non–Rotating, E.I.P.S., Right Regular Lay or Right Lang Lay				
YB	34 X 7 Rotation Resistant – WSC – Compacted Strand – Right Lang Lay				

* Available low speed winch line pull on fifth layer wire rope.

Notes:

- Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in this Crane Rating Manual.
- Capacity deducts for auxiliary lifting devices do not apply for wire rope strength capacities.
- Special reeving is required when using more than 12 parts of line.
- Consult Operator's Manual for wire rope inspection procedures, single part of line applications, and reeving diagrams.
- Due to the high single line pull allowable when using type "GC" wire rope, it is recommended that the winch available line pull be used to calculate the required parts of line to make the lift. (Calculations are given for fifth layer. See Wire Rope Capacity Chart above.)

If using other than the fifth layer, calculate per the follow examples:

Using the 1st layer line pull to lift from: $(\text{Load}(\text{lb})/21,022 = \text{Parts of line})$

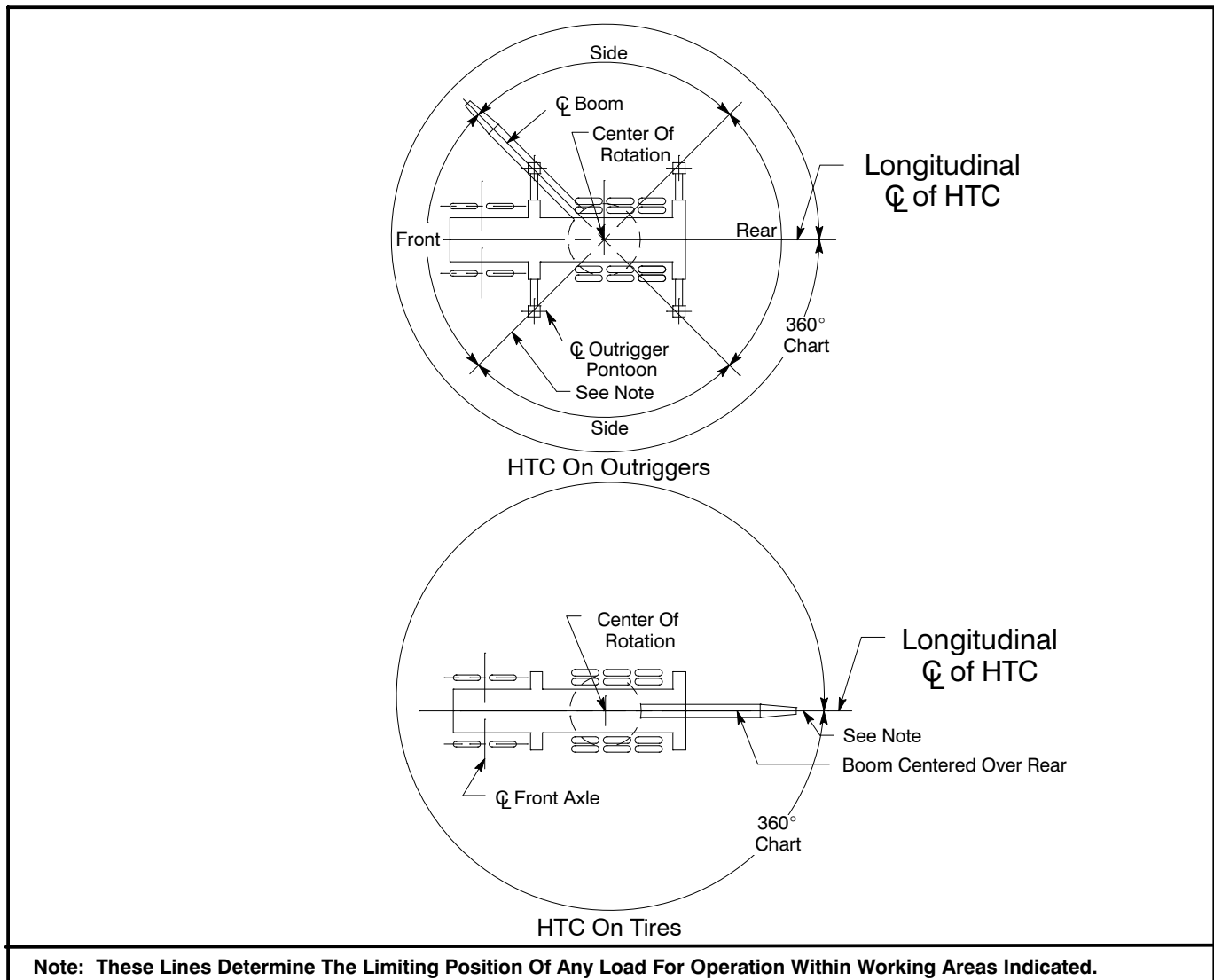
Using the 5th layer line pull to lift from: $(\text{Load}(\text{lb})/14,669 = \text{Parts of line})$

If the above formula is not used to calculate parts of line for the type "GC" wire rope, the possibility exists that the wire rope single line pull will be greater than the winch available line pull, causing the winch to stall.



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Working Areas



Hydraulic Circuit Pressure Settings

Function	Pressure (psi)
Outrigger	3,000
Bumper Outrigger	800
Steering	2,175
Pilot Control	500
Swing	2,200
Counterweight Removal Extend	1,000
Control Pressure Relief	3,700
Boom Hoist Raise/Boom Telescope Retract	4,550
Boom Hoist Lower	2,000
Boom Telescope Extend	3,300
Control Pressure Pump Without Hydraulic Offset Fly	3,000
Control Pressure Pump With Hydraulic Offset Fly (Optional)	3,500
Counterweight Removal Retract With Hydraulic Offset Fly (Optional)	3,000
Winch Charge Pressure	380
Boom Float Reducing Valve (Optional)	500
Boom Pinning Cylinder Extend	100



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Capacity Deductions

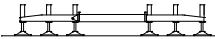
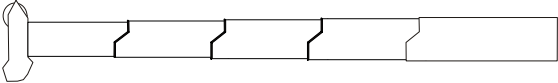
Load Handling Equipment	Weight (lb)
35 Ton Quick Reeve 1 Sheave Hook Block (See Hook Block For Actual Weight)	1,100
50 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	1,200
80 Ton Quick Reeve 5 Sheave Hook Block (See Hook Block For Actual Weight)	1,410
100 Ton Quick Reeve 6 Sheave Hook Block (See Hook Block For Actual Weight)	1,750
140 Ton Quick Reeve 7 Sheave Hook Block (See Hook Block For Actual Weight)	2,400
12 Ton Hook Ball (See Hook Ball For Actual Weight)	720

Auxiliary Lifting Devices	Weight (lb)	
Auxiliary Lifting Sheave Attached	100	
Swing—Away Auxiliary Lifting Sheave Attached	150	
Lifting From Main Boom With:	Offset Fly	Hydraulic Offset Fly
10', 31', or 55' Fly Stowed On Boom Base (See Operation Note 5)	0	0
10' Offset Fly Erected But Not Used (With Boom Modes EM1 thru EM5)	2,700	3,200
31' Offset Fly Erected But Not Used (With Boom Mode EM1, EM2, or EM3 only)	6,600	7,500
55' Offset Fly Erected But Not Used (With Boom Mode EM1, EM2, or EM3 only)	12,100	13,400
73' Offset Fly Erected But Not Used	Prohibited	Prohibited
91' Offset Fly Erected But Not Used	Prohibited	Prohibited
109' Offset Fly Erected But Not Used	Prohibited	Prohibited
18' Fly Extension Erected But Not Used (With Boom Mode EM1, EM2, or EM3 only)	3,100	3,100
Lifting From 10' or 31' Offset Fly With:	Offset Fly	Hydraulic Offset Fly
21' Fly Erected But Not Used	Prohibited	Prohibited
24' Fly Tip Erected But Not Used	Prohibited	Prohibited
24' Fly Tip Stowed On 31' Offset Fly	Prohibited	Prohibited
Note: Capacity deductions are for Link-Belt supplied equipment only.		



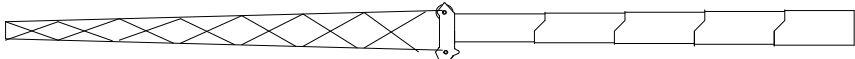
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Allowable Crane Configurations Main Boom

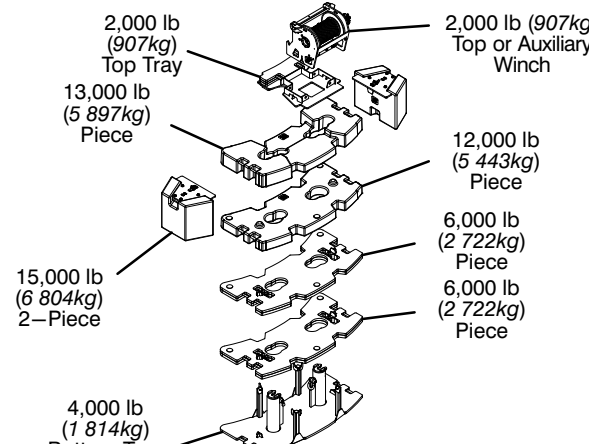
						
		Boom Length (ft)				
O/R Position	Cttwt (lb)	EM1	EM2	EM3	EM4	EM5
Full	0	42.3—175	42.3—170	42.3—155	42.3—129.6	42.3—103.7
	4,000	42.3—185	42.3—180.3			
	8,000	42.3—195.3				
	14,000					
	20,000					
	32,000					
	45,000					
	60,000					
Intermediate	0	42.3—130	42.3—130	42.3—115	42.3—115	42.3—103.7
	4,000	42.3—145	42.3—145	42.3—130		
	8,000					
	14,000	42.3—160	42.3—160	42.3—145	42.3—129.6	
	20,000	42.3—175				
	32,000	42.3—185	42.3—180.3	42.3—155		
	45,000	42.3—195.3				
	60,000					
Retracted	0	42.3—100	Not Allowed			
	4,000					
	8,000					
	14,000					
	20,000	42.3—115				
	32,000	42.3—130				
	45,000					
	60,000					
On Tires	0	42.3—85	Not Allowed			
	4,000					
	8,000					
	14,000	42.3—100				
	20,000					
	32,000					
	45,000					
	60,000					

Allowable Crane Configurations

Main Boom + Attachments

								
		EM1, EM2, or EM3						
O/R Position	Ctwt (lb)	10' Fly	31' Fly	55' Fly	73' Fly	91' Fly	109' Fly	18' Ext.
Full	0	Not Allowed						
	4,000							
	8,000							
	14,000							
	20,000	42.3—185	42.3—163					
	32,000	EM1 — 42.3—195.3						
	45,000	EM2 — 42.3—180.3						
	60,000	EM3 — 42.3—155						
Intermediate	0—32,000	Not Allowed						
	45,000							
	60,000							
Retracted	0—60,000	42.3—195.3	42.3—163					
On Tires	0—60,000	Not Allowed						

Allowable Counterweight Configurations

									
Counterweight Modules		4,000 lb (1 814kg) Bottom Tray	6,000 lb (2 722kg) Piece	6,000 lb (2 722kg) Piece	2,000 lb (907kg) Top Tray	2,000 lb (907kg) Top*	12,000 lb (5 443kg) Piece	13,000 lb (5 897kg) Piece	15,000 lb (6 804kg) 2–Piece
Counterweight Usage Configurations	0 lb (0kg)								
	4,000 lb (1 814kg)				X	X			
	8,000 lb (3 629kg)	X			X	X			
	14,000 lb (6 350kg)	X	X		X	X			
	20,000 lb (9 072kg)	X	X	X	X	X			
	32,000 lb (14 515kg)	X	X	X	X	X	X		
	45,000 lb (20 412kg)	X	X	X	X	X	X	X	
	60,000 lb (27 215kg)	X	X	X	X	X	X	X	X
* Auxiliary winch replaces this counterweight for a two-drum configuration									

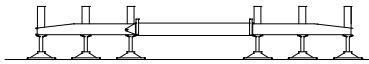


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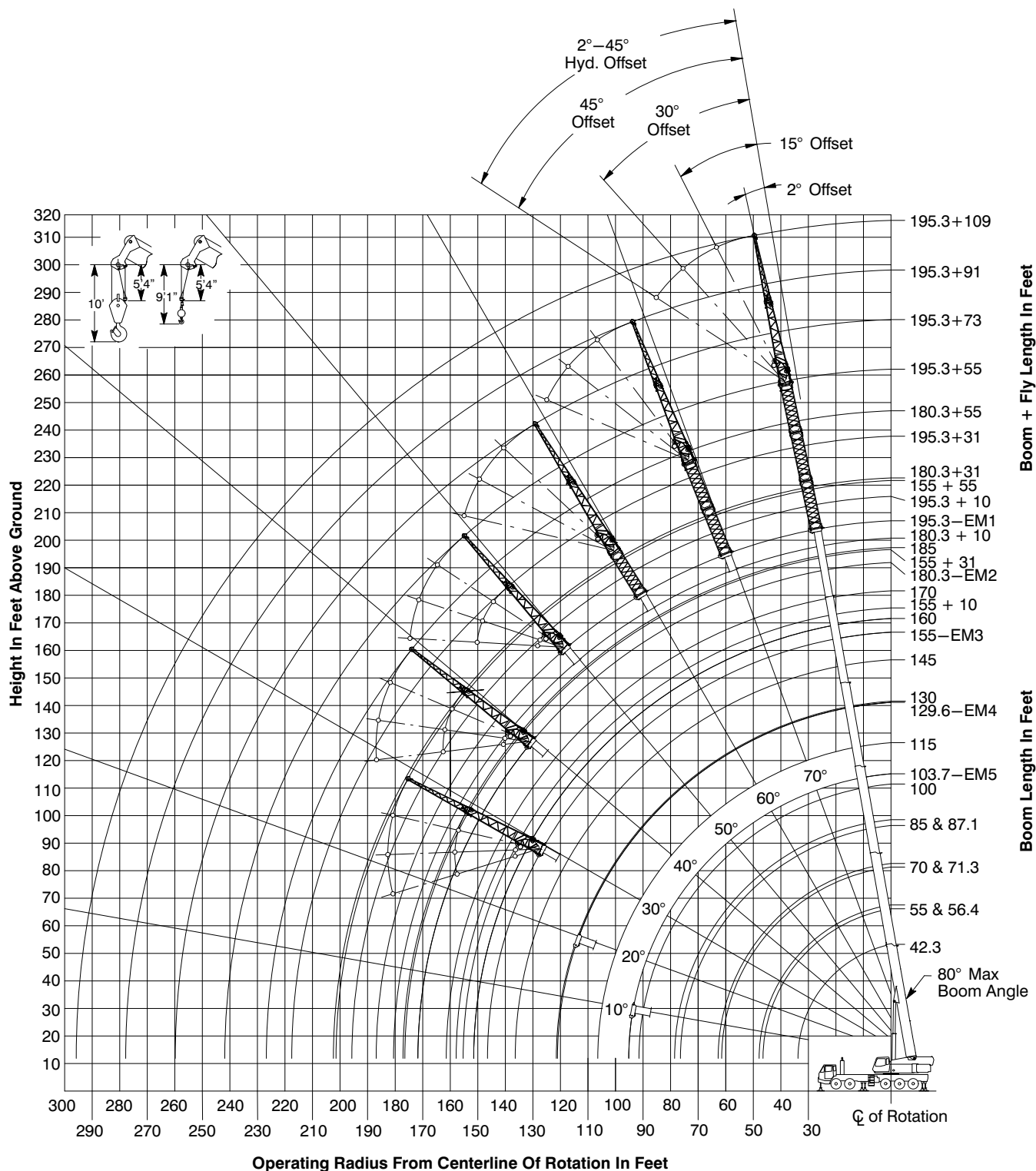
Wind Speed Restrictions

If The Wind Speed Is:	Rated Lifting Capacities Must Be Reduced By At Least:
Main Boom, 10', 31', & 55' Fly	
0–16 mph	Normal Lifting Operations (See Capacity Charts)
17–23 mph	40%
24–31 mph	70%
32 mph or greater	Crane operation must be shutdown and the boom retracted and lowered to horizontal.
73', 91', & 109' Fly	
0–12 mph	Normal Lifting Operations (See Capacity Charts)
13–18 mph	40%
19–24 mph	70%
25 mph or greater	Crane operation must be shutdown and the boom retracted and lowered to horizontal.
- Additional reductions are required for loads with large wind sail area. - These restrictions are based on crane on fully extended outriggers. - When wind speed for normal operation is exceeded, the operator shall add 10° to all minimum boom angles due to no load stability and shall not boom down below that angle.	

Backward Stability – Maximum Boom Angle

				
Counterweight (lb)	On Tires	Outrigger Position		
		Retracted	Intermediate	Full
0	80°	80°	80°	
4,000	77°	80°		
8,000	73°	80°		
14,000	66°	79°		
20,000	59°	73°		
32,000	41°	60°		
45,000	0°	43°		
60,000	0°	0°		
Maximum boom angle is based on retracted boom at the least stable over side position.				

Working Range Diagram



Note: Boom and fly geometry shown are for unloaded condition and crane standing level on firm supporting surface. Boom deflection, subsequent radius, and boom angle change must be accounted for when applying load to hook.



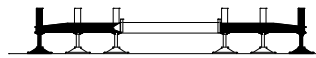
WARNING

Do Not Lower The Boom Below The Minimum Boom Angle For No Load Stability As Shown In The Lift Charts For The Boom Lengths Given. Loss Of Stability Will Occur Causing A Tipping Condition.



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Rated Lifting Capacities In Pounds



Full

0 lb



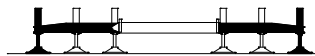
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	 °	360°	 °	360°	 °	360°
10	69.5	246,200	74.0	77,300	77.5	51,000
12	66.0	206,100	72.0	77,300	76.5	51,000
15	61.5	164,300	69.0	77,300	73.5	51,000
20	53.0	120,800	63.0	77,300	69.5	51,000
25	42.5	83,600	56.5	77,300	65.0	51,000
30	29.5	55,100	49.5	61,700	60.0	51,000
35			41.5	44,400	55.0	48,000
40			32.0	33,400	49.5	36,900
45			17.5	25,800	43.5	29,400
50					36.5	23,800
55					28.0	19,500
60					15.0	16,200
Min.Bm. Ang./Cap.	0.0	41,400	0.0	24,000	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	 °	360°	 °	360°	 °	360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	38,100	64.0	36,200	68.0	36,900
45	54.0	30,600	60.5	31,300	65.5	31,200
50	49.5	25,100	57.0	25,700	62.5	25,600
55	44.5	20,800	53.5	21,500	59.0	21,400
60	39.0	17,500	49.5	18,200	56.0	18,100
65	33.0	14,800	45.0	15,600	52.5	15,500
70	25.0	12,600	40.5	13,400	49.5	13,300
75	13.5	10,700	36.0	11,500	46.0	11,500
80			30.0	9,900	42.0	9,900
85			23.0	8,500	38.0	8,500
90			12.0	7,300	33.0	7,300
95					28.0	6,200
100					21.5	5,300
105					11.5	4,500
Min.Bm. Ang./Cap.	0.0	10,200	0.0	7,000	0.0	4,300
Radius (ft)	76.5		91.5		106.5	



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Rated Lifting Capacities In Pounds



Full



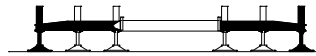
Load Radius (ft)	130.0 ft		145.0 ft	
	$\angle$ °	360°	$\angle$ °	360°
25	77.0	31,400		
30	75.0	31,400	77.0	29,500
35	73.0	31,400	75.0	29,500
40	71.0	31,400	73.5	29,500
45	69.0	30,100	71.5	29,500
50	66.0	25,500	69.0	24,900
55	63.5	21,300	67.0	20,700
60	61.0	17,900	64.5	17,400
65	58.0	15,400	62.0	14,900
70	55.0	13,200	59.5	12,700
75	52.5	11,400	57.0	10,900
80	49.5	9,800	54.5	9,300
85	46.0	8,500	52.0	8,000
90	43.0	7,300	49.0	6,800
95	39.5	6,200	46.5	5,800
100	35.5	5,300	43.5	4,900
105	31.0	4,500	40.5	4,100
110	26.0	3,700	37.0	3,300
115	20.0	3,100	33.5	2,600
120	10.5	2,500	29.5	2,000
125			24.5	1,500
Min.Bm. Ang./Cap.	0.0	2,300	20.5	
Radius (ft)	121.5		128.5	

Load Radius (ft)	160.0 ft		175.0 ft	
	$\angle$ °	360°	$\angle$ °	360°
30	78.0	26,200		
35	76.5	26,200	78.0	24,400
40	75.0	26,200	76.5	24,400
45	73.5	26,200	75.0	24,400
50	71.5	24,300	73.5	23,400
55	69.5	20,100	71.5	19,300
60	67.5	17,100	69.5	16,300
65	65.0	14,400	67.5	13,600
70	63.0	12,200	65.5	11,400
75	61.0	10,400	64.0	9,600
80	58.5	8,800	62.0	8,100
85	56.5	7,500	60.0	6,800
90	54.0	6,300	57.5	5,600
95	51.5	5,300	55.5	4,600
100	49.0	4,400	53.5	3,700
105	46.5	3,600	51.5	2,900
110	44.0	2,900	49.0	2,200
115	41.0	2,300	47.0	1,600
120	38.0	1,700		
Min.Bm. Ang./Cap.	35.5		45.5	
Radius (ft)	124.5		117.7	



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Rated Lifting Capacities In Pounds



Full



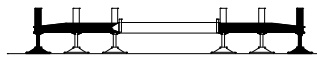
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	 °	360°	 °	360°	 °	360°
10	69.5	246,200	74.0	77,300	77.5	61,600
12	66.0	206,100	72.0	77,300	76.5	61,600
15	61.5	164,300	69.0	77,300	73.5	61,600
20	53.0	120,800	63.0	77,300	69.5	61,600
25	42.5	83,600	56.5	77,300	65.0	61,600
30	29.5	55,100	49.5	61,700	60.0	59,900
35			41.5	44,400	55.0	47,900
40			32.0	33,400	49.5	36,800
45			17.5	25,800	43.5	29,300
50					36.5	23,700
55					28.0	19,400
60					15.0	16,100
Min.Bm. Ang./Cap.	0.0	41,400	0.0	24,000	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	 °	360°	 °	360°	 °	360°
15	77.0	61,900				
20	73.5	61,900	76.0	52,900	78.0	39,000
25	70.0	59,400	73.5	52,900	75.5	39,000
30	66.5	52,800	70.5	47,800	73.5	39,000
35	62.5	47,400	67.5	43,100	71.0	39,000
40	58.5	38,000	64.0	38,500	68.5	36,600
45	54.0	30,400	60.5	30,900	65.5	30,800
50	49.5	24,900	57.0	25,400	62.5	25,300
55	44.5	20,700	53.5	21,100	59.0	21,000
60	39.0	17,300	49.5	17,800	56.0	17,700
65	33.0	14,700	45.0	15,300	53.0	15,200
70	25.0	12,400	41.0	13,000	49.5	13,000
75	13.5	10,500	36.0	11,100	46.0	11,100
80			30.0	9,500	42.0	9,600
85			23.0	8,100	38.0	8,200
90			12.5	7,000	33.5	7,000
95					28.0	5,900
100					21.5	5,000
105					11.5	4,200
Min.Bm. Ang./Cap.	0.0	10,100	0.0	6,700	0.0	4,000
Radius (ft)	76.5		91.5		106.5	

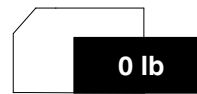


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Rated Lifting Capacities In Pounds



Full



0 lb

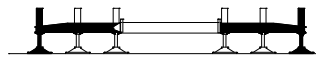


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft		170.0 ft	
	45°	360°	45°	360°	45°	360°	45°	360°
25	77.5	35,600						
30	75.5	35,600	77.0	32,200	78.5	30,200		
35	73.5	35,600	75.5	32,200	77.0	30,200	78.0	28,000
40	71.5	35,600	73.5	32,200	75.5	30,200	76.5	28,000
45	69.0	30,400	71.5	29,800	74.0	28,900	75.0	28,000
50	66.0	24,900	69.0	24,300	71.5	23,400	73.0	22,800
55	63.5	20,600	67.0	20,100	69.5	19,200	71.0	18,600
60	61.0	17,300	64.5	17,000	67.5	16,200	69.0	15,600
65	58.0	14,800	62.0	14,300	65.0	13,600	67.0	13,000
70	55.5	12,700	59.5	12,100	63.0	11,400	65.0	10,900
75	52.5	10,800	57.0	10,300	61.0	9,600	63.0	9,100
80	49.5	9,300	54.5	8,800	58.5	8,100	61.0	7,500
85	46.0	7,900	52.0	7,400	56.5	6,700	59.0	6,200
90	43.0	6,800	49.5	6,300	54.0	5,600	57.0	5,100
95	39.5	5,700	46.5	5,300	51.5	4,600	54.5	4,100
100	35.5	4,800	43.5	4,400	49.5	3,700	52.5	3,200
105	31.0	4,000	40.5	3,500	46.5	2,900	50.0	2,400
110	26.0	3,200	37.0	2,800	44.0	2,200	48.0	1,700
115	20.0	2,600	33.5	2,100	41.5	1,500		
120	10.5	2,000	29.5	1,500				
Min.Bm. Ang./Cap.	0.0	1,800	26.5		40.0		46.5	
Radius (ft)	121.5		123.3		117.2		113.1	



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Rated Lifting Capacities In Pounds



Full

0 lb



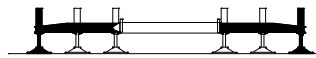
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	69.5	246,200	74.0	77,300	77.5	68,700		
12	66.0	206,100	72.0	77,300	76.5	68,700		
15	61.5	164,300	69.0	77,300	74.0	68,700	76.5	69,000
20	53.0	120,800	63.0	77,300	69.5	68,700	74.0	69,000
25	42.5	83,600	56.5	77,300	65.0	68,700	70.0	69,000
30	29.5	55,100	49.5	61,700	60.0	64,100	66.5	64,500
35			41.5	44,400	55.0	46,800	62.0	47,300
40			32.0	33,400	49.5	35,800	58.0	36,200
45			17.5	25,800	43.5	28,400	54.0	28,800
50					36.5	22,900	49.0	23,300
55					28.0	18,600	44.5	19,200
60					15.0	15,300	39.0	16,000
65							32.5	13,300
70							25.0	11,000
75							13.5	9,200
Min.Bm. Ang./Cap.	0.0	41,400	0.0	24,000	0.0	14,500	0.0	8,700
Radius (ft)	33.7		46.5		61.5		76.5	

Load Radius (ft)	100.0 ft		115.0 ft		130.0 ft		145.0 ft		155.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
20	76.0	54,700	78.5	54,000						
25	73.5	54,700	76.0	54,000	78.0	49,400				
30	70.5	53,100	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	67.5	47,300	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	64.0	36,300	68.0	35,600	71.0	34,900	74.0	34,000	75.0	33,400
45	60.5	28,900	65.0	28,300	68.5	27,700	71.5	26,600	73.0	26,100
50	57.0	23,400	62.0	22,900	66.0	22,200	69.0	21,300	70.5	20,700
55	53.0	19,200	59.0	18,700	63.0	18,100	66.5	17,200	68.5	16,900
60	49.0	16,100	56.0	15,600	60.5	15,100	64.5	14,200	66.5	13,700
65	45.0	13,500	52.5	13,000	58.0	12,500	62.0	11,600	64.0	11,100
70	40.5	11,300	49.0	10,900	55.0	10,300	59.5	9,500	62.0	9,000
75	35.5	9,400	45.5	9,100	52.0	8,500	57.0	7,700	59.5	7,300
80	30.0	7,800	42.0	7,500	49.0	7,000	54.5	6,200	57.5	5,800
85	23.0	6,500	37.5	6,200	46.0	5,700	52.0	4,900	55.0	4,500
90	12.0	5,300	33.0	5,000	42.5	4,600	49.5	3,800	52.5	3,400
95			28.0	4,000	39.0	3,600	46.5	2,800	50.0	2,400
100			21.5	3,100	35.5	2,600	43.5	1,900		
105			11.5	2,200	31.0	1,800				
Min.Bm. Ang./Cap.	0.0	5,000	0.0	2,100	28.0		41.5		47.5	
Radius (ft)	91.5		106.5		107.9		103.2		99.7	



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Rated Lifting Capacities In Pounds



Full

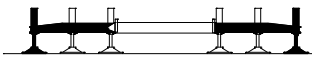


Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	69.5	246,200	74.0	77,300	77.5	68,700
12	66.0	206,100	72.0	77,300	76.5	68,700
15	61.5	164,300	69.0	77,300	74.0	68,700
20	53.0	120,800	63.0	77,300	69.5	68,700
25	42.5	83,600	56.5	77,300	65.0	68,700
30	29.5	55,100	49.5	61,700	60.0	64,100
35			41.5	44,400	55.0	46,800
40			32.0	33,400	49.5	35,800
45			17.5	25,800	43.5	28,400
50					36.5	22,900
55					28.0	18,600
60					15.0	15,300
Min.Bm. Ang./Cap.	0.0	41,400	0.0	24,000	0.0	14,500
Radius (ft)	33.7		46.5		61.5	

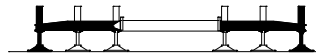
Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft		129.6 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
15	76.5	64,900						
20	74.0	64,900	76.0	65,000	78.5	61,300		
25	70.0	64,900	73.5	65,000	76.0	61,300	78.0	47,200
30	66.5	64,500	70.5	63,700	73.5	61,300	76.0	47,200
35	62.0	47,200	67.0	46,500	70.5	45,000	73.5	43,800
40	58.0	36,200	63.5	35,500	68.0	34,300	71.0	33,200
45	54.0	28,800	60.0	28,200	65.0	26,900	68.5	25,900
50	49.0	23,300	56.5	22,700	62.0	21,500	65.5	20,500
55	44.5	19,100	53.0	18,600	59.0	17,400	63.0	16,700
60	39.0	15,900	49.0	15,500	56.0	14,400	60.5	13,500
65	32.5	13,200	45.0	12,900	52.5	11,800	57.5	10,900
70	25.0	11,000	40.5	10,700	49.0	9,600	55.0	8,800
75	13.5	9,100	35.5	8,800	45.5	7,900	52.0	7,100
80			30.0	7,300	42.0	6,400	49.0	5,600
85			23.0	5,900	37.5	5,000	46.0	4,300
90			12.0	4,700	33.0	3,800	42.5	3,200
95					28.0	2,800	39.0	2,200
100					21.5	1,900		
Min.Bm. Ang./Cap.	0.0	8,700	0.0	4,400	15.5		36.5	
Radius (ft)	76.5		91.5		103.0		98.3	



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Rated Lifting Capacities In Pounds							
		Full		0 lb			
Load Radius (ft)	42.3 ft		56.4 ft				
	 °	360°	 °	360°			
10	69.5	246,200	75.0	157,100			
12	66.0	206,100	73.0	157,100			
15	61.5	164,300	69.5	157,100			
20	53.0	120,800	63.5	124,200			
25	42.5	83,600	57.5	88,900			
30	29.5	55,100	51.0	60,600			
35			43.5	43,400			
40			34.5	32,600			
45			22.0	25,000			
Min.Bm. Ang./Cap.	0.0	41,400	0.0	21,700			
Radius (ft)	33.7		47.8				

Load Radius (ft)	71.3 ft		87.1 ft		103.7 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
10	78.5	151,700				
12	77.0	144,800				
15	74.5	137,400	77.5	110,100		
20	70.0	118,300	74.0	106,500	77.0	80,700
25	65.5	90,400	70.5	89,900	74.5	77,100
30	60.5	61,900	67.0	61,500	71.5	59,800
35	55.5	44,700	63.0	44,300	68.0	42,800
40	50.0	34,000	59.0	33,700	65.0	32,300
45	44.5	26,600	55.0	26,300	61.5	25,000
50	38.0	21,200	50.5	21,000	58.0	19,700
55	30.0	17,000	45.5	17,000	54.5	15,900
60	19.0	13,700	40.5	13,800	51.0	12,700
65			35.0	11,100	47.5	10,200
70			28.0	9,000	43.0	8,100
75			19.0	7,100	38.5	6,300
80					33.5	4,700
85					28.0	3,400
90					20.5	2,300
Min.Bm. Ang./Cap.	0.0	12,200	0.0	6,000	11.0	
Radius (ft)	62.7		78.5		93.3	

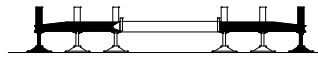
**Rated Lifting Capacities
In Pounds****Full****4,000 lb**

Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
		360°		360°		360°
10	69.5	250,300	74.0	77,300	77.5	51,000
12	66.0	209,500	72.0	77,300	76.5	51,000
15	61.5	167,100	69.0	77,300	73.5	51,000
20	53.0	122,900	63.0	77,300	69.5	51,000
25	43.0	90,000	56.5	77,300	65.0	51,000
30	29.5	60,100	49.5	66,300	60.0	51,000
35			41.5	48,600	55.0	51,000
40			32.0	36,700	49.5	40,300
45			17.5	28,700	43.5	32,300
50					36.5	26,300
55					28.0	21,700
60					15.0	18,100
Min.Bm. Ang./Cap.	0.0	45,800	0.0	25,600	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
		360°		360°		360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	41,500	64.0	36,200	68.0	36,900
45	54.0	33,400	60.5	33,000	65.5	33,800
50	49.5	27,500	57.0	28,200	62.5	28,100
55	44.5	23,000	53.5	23,600	59.5	23,500
60	39.0	19,400	49.5	20,100	56.0	20,000
65	33.0	16,600	45.5	17,300	53.0	17,300
70	25.5	14,200	41.0	15,000	49.5	14,900
75	13.5	12,100	36.0	12,900	46.0	12,900
80			30.0	11,200	42.0	11,200
85			23.0	9,700	38.0	9,800
90			12.5	8,400	33.5	8,500
95					28.0	7,300
100					21.5	6,300
105					11.5	5,500
Min.Bm. Ang./Cap.	0.0	10,800	0.0	8,100	0.0	5,300
Radius (ft)	76.5		91.5		106.5	



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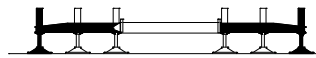
**Rated Lifting Capacities
In Pounds**

Full
4,000 lb


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
25	77.0	31,400				
30	75.0	31,400	77.0	29,500	78.0	26,200
35	73.0	31,400	75.0	29,500	76.5	26,200
40	71.0	31,400	73.5	29,500	75.0	26,200
45	69.0	30,100	71.5	29,500	73.5	26,200
50	66.5	27,600	69.5	27,300	72.0	26,200
55	63.5	23,400	67.0	22,800	69.5	22,300
60	61.0	19,800	64.5	19,300	67.5	18,800
65	58.0	17,200	62.0	16,600	65.5	16,100
70	55.5	14,800	59.5	14,300	63.0	13,800
75	52.5	12,800	57.5	12,300	61.0	11,800
80	49.5	11,100	54.5	10,600	59.0	10,200
85	46.5	9,700	52.0	9,200	56.5	8,700
90	43.0	8,500	49.5	8,000	54.0	7,500
95	39.5	7,300	46.5	6,900	52.0	6,400
100	35.5	6,300	43.5	5,900	49.5	5,500
105	31.0	5,400	40.5	5,000	47.0	4,600
110	26.5	4,600	37.0	4,200	44.0	3,800
115	20.0	3,900	33.5	3,500	41.5	3,100
120	10.5	3,300	29.5	2,900	38.5	2,500
125			25.0	2,300	35.0	1,900
130			19.0	1,800	32.0	1,400
135			10.0	1,300		
Min.Bm. Ang./Cap.	0.0	3,200	0.0	1,200	30.0	
Radius (ft)	121.5		136.5		132.4	

Load Radius (ft)	175.0 ft		185.0 ft	
	Δ°	360°	Δ°	360°
35	78.0	24,400	78.0	18,800
40	76.5	24,400	77.0	18,800
45	75.0	24,400	75.5	18,800
50	73.5	24,400	74.5	18,800
55	72.0	21,400	73.0	18,800
60	70.0	17,900	71.5	17,400
65	68.0	15,400	69.5	14,800
70	66.0	13,000	67.5	12,500
75	64.0	11,100	66.0	10,600
80	62.0	9,400	64.0	8,900
85	60.0	8,000	62.0	7,500
90	58.0	6,800	60.0	6,300
95	56.0	5,700	58.5	5,200
100	53.5	4,700	56.5	4,300
105	51.5	3,900	54.5	3,400
110	49.5	3,100	52.0	2,700
115	47.0	2,400	50.0	2,000
120	44.5	1,800	48.0	1,400
Min.Bm. Ang./Cap.	42.0		47.5	
Radius (ft)	124.9		121.4	



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**Rated Lifting Capacities
In Pounds****Full**
4,000 lb

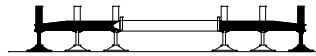

Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	°	360°	°	360°	°	360°
10	69.5	250,300	74.0	77,300	77.5	61,600
12	66.0	209,500	72.0	77,300	76.5	61,600
15	61.5	167,100	69.0	77,300	73.5	61,600
20	53.0	122,900	63.0	77,300	69.5	61,600
25	43.0	90,000	56.5	77,300	65.0	61,600
30	29.5	60,100	49.5	66,300	60.0	59,900
35			41.5	48,600	55.0	52,000
40			32.0	36,700	49.5	40,200
45			17.5	28,700	43.5	32,200
50					36.5	26,200
55					28.0	21,600
60					15.0	18,000
Min.Bm. Ang./Cap.	0.0	45,800	0.0	25,600	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	°	360°	°	360°	°	360°
15	77.0	61,900				
20	73.5	61,900	76.0	52,900	78.0	39,000
25	70.0	59,400	73.5	52,900	75.5	39,000
30	66.5	52,800	70.5	47,800	73.5	39,000
35	62.5	47,400	67.5	43,100	71.0	39,000
40	58.5	41,300	64.0	39,300	68.5	36,600
45	54.0	33,300	61.0	33,800	65.5	33,400
50	49.5	27,300	57.0	27,800	62.5	27,700
55	44.5	22,800	53.5	23,300	59.5	23,200
60	39.0	19,300	49.5	19,700	56.0	19,600
65	33.0	16,400	45.5	17,000	53.0	16,900
70	25.5	14,000	41.0	14,600	49.5	14,600
75	13.5	12,000	36.0	12,600	46.0	12,600
80			30.0	10,900	42.0	10,900
85			23.0	9,400	38.0	9,400
90			12.5	8,100	33.5	8,200
95					28.0	7,000
100					21.5	6,000
105					11.5	5,200
Min.Bm. Ang./Cap.	0.0	11,500	0.0	7,800	0.0	5,000
Radius (ft)	76.5		91.5		106.5	



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Rated Lifting Capacities In Pounds



Full

4,000 lb



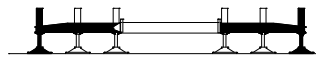
Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
25	77.5	35,600				
30	75.5	35,600	77.0	32,200	78.5	30,200
35	73.5	35,600	75.5	32,200	77.0	30,200
40	71.5	35,600	73.5	32,200	75.5	30,200
45	69.0	32,800	71.5	31,500	74.0	30,200
50	66.5	27,300	69.5	26,700	72.0	25,900
55	63.5	22,800	67.0	22,200	69.5	21,400
60	61.0	19,300	64.5	18,700	67.5	17,900
65	58.0	16,600	62.5	16,100	65.5	15,300
70	55.5	14,200	60.0	13,700	63.5	13,000
75	52.5	12,300	57.5	11,800	61.0	11,100
80	49.5	10,600	55.0	10,100	59.0	9,400
85	46.5	9,200	52.0	8,700	56.5	8,000
90	43.0	7,900	49.5	7,400	54.5	6,700
95	39.5	6,800	46.5	6,400	52.0	5,700
100	35.5	5,800	43.5	5,400	49.5	4,700
105	31.5	4,900	40.5	4,500	47.0	3,900
110	26.5	4,100	37.5	3,700	44.5	3,100
115	20.0	3,400	33.5	3,000	41.5	2,400
120	10.5	2,800	29.5	2,400	38.5	1,800
125			25.0	1,800		
130			19.0	1,300		
Min.Bm. Ang./Cap.	0.0	2,700	16.5		36.0	
Radius (ft)	121.5		131.5		124.5	

Load Radius (ft)	170.0 ft		180.3 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
35	78.0	28,000	78.5	24,900
40	76.5	28,000	77.5	24,900
45	75.0	28,000	76.0	24,900
50	73.5	25,200	74.5	24,700
55	71.5	20,800	72.5	20,200
60	69.5	17,300	71.0	17,000
65	67.5	14,800	69.0	14,300
70	65.5	12,500	67.0	12,000
75	63.5	10,500	65.0	10,000
80	61.0	8,900	63.5	8,400
85	59.0	7,500	61.5	7,000
90	57.0	6,200	59.5	5,800
95	55.0	5,200	57.5	4,700
100	52.5	4,200	55.5	3,800
105	50.5	3,400	53.0	2,900
110	48.0	2,600	51.0	2,200
115	45.5	1,900	49.0	1,500
Min.Bm. Ang./Cap.	43.0		48.0	
Radius (ft)	120.0		117.0	



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Rated Lifting Capacities In Pounds



Full

4,000 lb



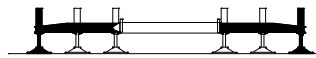
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
10	69.5	250,300	74.0	77,300	77.5	68,700		
12	66.0	209,500	72.0	77,300	76.5	68,700		
15	61.5	167,100	69.0	77,300	74.0	68,700	76.5	69,000
20	53.0	122,900	63.0	77,300	69.5	68,700	74.0	69,000
25	43.0	90,000	56.5	77,300	65.0	68,700	70.0	69,000
30	29.5	60,100	49.5	66,300	60.0	68,700	66.5	69,000
35			41.5	48,600	55.0	51,000	62.5	51,400
40			32.0	36,700	49.5	39,200	58.0	39,600
45			17.5	28,700	43.5	31,300	54.0	31,600
50					36.5	25,300	49.5	25,800
55					28.0	20,800	44.5	21,300
60					15.0	17,200	39.0	17,800
65							33.0	15,000
70							25.0	12,600
75							13.5	10,600
Min.Bm. Ang./Cap.	0.0	45,800	0.0	25,600	0.0	16,300	0.0	10,100
Radius (ft)	33.7		46.5		61.5		76.5	

Load Radius (ft)	100.0 ft		115.0 ft		130.0 ft		145.0 ft		155.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
20	76.0	54,700	78.5	54,000						
25	73.5	54,700	76.0	54,000	78.0	49,400				
30	70.5	53,100	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	67.5	47,700	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	64.0	39,600	68.0	39,000	71.0	38,300	74.0	37,200	75.5	35,500
45	60.5	31,700	65.0	31,200	68.5	30,500	71.5	29,500	73.0	28,900
50	57.0	25,800	62.0	25,300	66.0	24,700	69.5	23,700	71.0	23,200
55	53.0	21,400	59.0	20,900	63.5	20,300	67.0	19,300	68.5	18,800
60	49.5	17,900	56.0	17,400	60.5	17,000	64.5	16,100	66.5	15,600
65	45.0	15,200	52.5	14,800	58.0	14,200	62.0	13,400	64.5	12,900
70	40.5	12,900	49.5	12,400	55.0	11,900	59.5	11,100	62.0	10,600
75	36.0	10,900	46.0	10,500	52.5	10,000	57.5	9,200	60.0	8,700
80	30.0	9,200	42.0	8,900	49.5	8,400	55.0	7,600	57.5	7,100
85	23.0	7,700	38.0	7,400	46.0	7,000	52.0	6,200	55.0	5,700
90	12.0	6,500	33.5	6,200	43.0	5,700	49.5	5,000	53.0	4,500
95			28.0	5,100	39.5	4,700	46.5	3,900	50.5	3,500
100			21.5	4,100	35.5	3,700	43.5	3,000	47.5	2,500
105			11.5	3,200	31.0	2,800	40.5	2,100	45.0	1,700
110					26.0	2,000				
115					20.0	1,300				
Min.Bm. Ang./Cap.	0.0	6,200	0.0	3,000	19.5		38.0	0	44.0	
Radius (ft)	91.5		106.5		115.2		109.4		106.3	



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Rated Lifting Capacities In Pounds



Full

4,000 lb



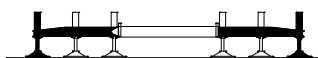
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
10	69.5	250,300	74.0	77,300	77.5	68,700
12	66.0	209,500	72.0	77,300	76.5	68,700
15	61.5	167,100	69.0	77,300	74.0	68,700
20	53.0	122,900	63.0	77,300	69.5	68,700
25	43.0	90,000	56.5	77,300	65.0	68,700
30	29.5	60,100	49.5	66,300	60.0	68,700
35			41.5	48,600	55.0	51,000
40			32.0	36,700	49.5	39,200
45			17.5	28,700	43.5	31,300
50					36.5	25,300
55					28.0	20,800
60					15.0	17,200
Min.Bm. Ang./Cap.	0.0	45,800	0.0	25,600	0.0	16,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft		129.6 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
15	76.5	64,900						
20	74.0	64,900	76.0	65,000	78.5	61,300		
25	70.0	64,900	73.5	65,000	76.0	61,300	78.0	47,200
30	66.5	64,900	70.5	65,000	74.0	61,300	76.0	47,200
35	62.5	51,400	67.0	50,600	71.0	49,100	73.5	45,500
40	58.0	39,500	63.5	38,900	68.0	37,500	71.0	36,400
45	54.0	31,600	60.5	31,000	65.0	29,700	68.5	28,700
50	49.5	25,700	56.5	25,200	62.0	23,900	66.0	23,000
55	44.5	21,300	53.0	20,700	59.0	19,500	63.5	18,600
60	39.0	17,800	49.0	17,300	56.0	16,300	60.5	15,400
65	33.0	15,000	45.0	14,600	52.5	13,500	58.0	12,700
70	25.0	12,600	40.5	12,300	49.5	11,200	55.0	10,400
75	13.5	10,600	35.5	10,300	45.5	9,300	52.0	8,500
80			30.0	8,600	42.0	7,700	49.0	6,900
85			23.0	7,200	38.0	6,300	46.0	5,500
90			12.0	5,900	33.0	5,000	42.5	4,300
95					28.0	3,900	39.0	3,300
100					21.5	3,000	35.0	2,300
105					11.5	2,100		
Min.Bm. Ang./Cap.	0.0	10,100	0.0	5,600	0.0	1,900	31.0	
Radius (ft)	76.5		91.5		106.5		104.9	



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Rated Lifting Capacities In Pounds



Full

4,000 lb

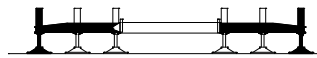


Load Radius (ft)	42.3 ft		56.4 ft	
	$\angle$ °	360°	$\angle$ °	360°
10	69.5	250,300	75.0	157,100
12	66.0	209,500	73.0	157,100
15	61.5	167,100	69.5	157,100
20	53.0	122,900	63.5	126,400
25	43.0	90,000	57.5	95,400
30	29.5	60,100	51.0	65,300
35			43.5	47,600
40			34.5	35,900
45			22.0	27,900
Min.Bm. Ang./Cap.	0.0	45,800	0.0	24,300
Radius (ft)	33.7		47.8	

Load Radius (ft)	71.3 ft		87.1 ft		103.7 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	78.5	151,700				
12	77.0	144,800				
15	74.5	137,400	77.5	110,100		
20	70.0	118,300	74.0	106,500	77.0	80,700
25	65.5	96,900	70.5	93,500	74.5	77,100
30	60.5	66,600	67.0	66,200	71.5	64,500
35	55.5	48,900	63.0	48,500	68.0	47,000
40	50.5	37,300	59.0	36,900	65.0	35,500
45	44.5	29,400	55.0	29,100	61.5	27,800
50	38.0	23,600	50.5	23,400	58.5	22,200
55	30.0	19,100	46.0	19,000	55.0	17,900
60	19.0	15,600	40.5	15,700	51.0	14,600
65			35.0	12,900	47.5	11,900
70			28.0	10,500	43.0	9,700
75			19.0	8,600	39.0	7,700
80					34.0	6,100
85					28.0	4,700
90					20.5	3,400
95					6.0	2,400
Min.Bm. Ang./Cap.	0.0	14,000	0.0	7,400	0.0	2,300
Radius (ft)	62.7		78.5		95.2	



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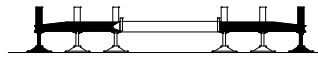
**Rated Lifting Capacities
In Pounds****Full****8,000 lb**

Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
10	69.5	254,200	74.0	77,300	77.5	51,000
12	66.0	212,800	72.0	77,300	76.5	51,000
15	61.5	169,800	69.0	77,300	73.5	51,000
20	53.0	125,000	63.0	77,300	69.5	51,000
25	43.0	96,300	56.5	77,300	65.0	51,000
30	29.5	64,600	49.5	70,800	60.0	51,000
35			42.0	52,500	55.0	51,000
40			32.0	40,000	49.5	43,600
45			17.5	31,400	43.5	34,900
50					36.5	28,700
55					28.0	23,800
60					15.0	20,000
Min.Bm. Ang./Cap.	0.0	50,100	0.0	25,600	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	43,200	64.0	36,200	68.0	36,900
45	54.0	36,100	60.5	33,000	65.5	33,800
50	49.5	29,900	57.5	30,300	62.5	30,500
55	44.5	25,100	53.5	25,700	59.5	25,600
60	39.0	21,300	49.5	22,000	56.5	21,800
65	33.0	18,200	45.5	18,900	53.0	18,800
70	25.5	15,700	41.0	16,500	49.5	16,400
75	13.5	13,500	36.0	14,300	46.0	14,300
80			30.5	12,500	42.0	12,500
85			23.5	10,900	38.0	11,000
90			12.5	9,600	33.5	9,600
95					28.0	8,400
100					21.5	7,300
105					11.5	6,400
Min.Bm. Ang./Cap.	0.0	10,800	0.0	8,700	0.0	6,200
Radius (ft)	76.5		91.5		106.5	



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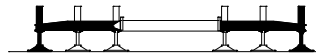
**Rated Lifting Capacities
In Pounds**

Full
8,000 lb


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
25	77.0	31,400				
30	75.0	31,400	77.0	29,500	78.0	26,200
35	73.0	31,400	75.0	29,500	76.5	26,200
40	71.0	31,400	73.5	29,500	75.0	26,200
45	69.0	30,100	71.5	29,500	73.5	26,200
50	66.5	27,600	69.5	29,300	72.0	26,200
55	64.0	25,500	67.0	24,900	70.0	24,400
60	61.0	21,700	65.0	21,100	67.5	20,600
65	58.5	18,700	62.5	18,100	65.5	17,600
70	55.5	16,300	60.0	15,800	63.5	15,300
75	52.5	14,200	57.5	13,700	61.0	13,300
80	49.5	12,400	55.0	11,900	59.0	11,500
85	46.5	10,900	52.5	10,400	56.5	10,000
90	43.0	9,600	49.5	9,100	54.5	8,600
95	39.5	8,400	46.5	7,900	52.0	7,500
100	35.5	7,300	44.0	6,900	49.5	6,500
105	31.5	6,400	40.5	6,000	47.0	5,500
110	26.5	5,500	37.5	5,100	44.5	4,700
115	20.5	4,800	33.5	4,400	41.5	4,000
120	11.0	4,100	29.5	3,700	38.5	3,300
125			25.0	3,100	35.5	2,700
130			19.0	2,500	32.0	2,100
135			10.0	2,000	28.0	1,600
Min.Bm. Ang./Cap.	0.0	4,000	0.0	1,900	23.5	
Radius (ft)	121.5		136.5		140.0	

Load Radius (ft)	175.0 ft		185.0 ft		195.3 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
35	78.0	24,400	78.0	18,800		
40	76.5	24,400	77.0	18,800	77.5	17,000
45	75.0	24,400	75.5	18,800	76.0	17,000
50	73.5	24,400	74.5	18,800	75.0	17,000
55	72.0	23,500	73.0	18,800	74.0	17,000
60	70.0	19,800	71.5	18,800	72.5	17,000
65	68.0	17,000	70.0	16,500	71.0	16,000
70	66.0	14,600	68.0	14,100	69.5	13,600
75	64.0	12,500	66.0	12,000	67.5	11,500
80	62.0	10,700	64.0	10,200	66.0	9,800
85	60.0	9,200	62.5	8,700	64.0	8,300
90	58.0	7,900	60.5	7,400	62.0	7,000
95	56.0	6,800	58.5	6,300	60.5	5,900
100	54.0	5,700	56.5	5,300	58.5	4,800
105	51.5	4,800	54.5	4,400	56.5	3,900
110	49.5	4,000	52.5	3,600	55.0	3,100
115	47.0	3,300	50.5	2,800	53.0	2,400
120	44.5	2,600	48.0	2,200	51.0	1,800
125	42.0	2,000	46.0	1,600		
130	39.5	1,500				
Min.Bm. Ang./Cap.	38.0		44.5		49.0	
Radius (ft)	132.4		128.1		124.7	



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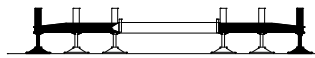
**Rated Lifting Capacities
In Pounds****Full**
8,000 lb


Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	°	360°	°	360°	°	360°
10	69.5	254,200	74.0	77,300	77.5	61,600
12	66.0	212,800	72.0	77,300	76.5	61,600
15	61.5	169,800	69.0	77,300	73.5	61,600
20	53.0	125,000	63.0	77,300	69.5	61,600
25	43.0	96,300	56.5	77,300	65.0	61,600
30	29.5	64,600	49.5	70,800	60.0	59,900
35			42.0	52,500	55.0	54,100
40			32.0	40,000	49.5	43,400
45			17.5	31,400	43.5	34,800
50					36.5	28,500
55					28.0	23,700
60					15.0	19,900
Min.Bm. Ang./Cap.	0.0	50,100	0.0	25,600	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	°	360°	°	360°	°	360°
15	77.0	61,900				
20	73.5	61,900	76.0	52,900	78.0	39,000
25	70.0	59,400	73.5	52,900	75.5	39,000
30	66.5	52,800	70.5	47,800	73.5	39,000
35	62.5	47,400	67.5	43,100	71.0	39,000
40	58.5	43,000	64.0	39,300	68.5	36,600
45	54.0	35,900	61.0	36,000	65.5	33,400
50	49.5	29,700	57.5	30,200	62.5	30,100
55	44.5	24,900	53.5	25,400	59.5	25,300
60	39.5	21,100	49.5	21,600	56.5	21,500
65	33.0	18,000	45.5	18,600	53.0	18,500
70	25.5	15,500	41.0	16,200	49.5	16,100
75	13.5	13,400	36.0	14,000	46.0	14,000
80			30.5	12,200	42.5	12,200
85			23.5	10,600	38.0	10,700
90			12.5	9,300	33.5	9,300
95					28.5	8,100
100					21.5	7,000
105					11.5	6,100
Min.Bm. Ang./Cap.	0.0	12,000	0.0	8,900	0.0	5,900
Radius (ft)	76.5		91.5		106.5	



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**Rated Lifting Capacities
In Pounds****Full****8,000 lb**

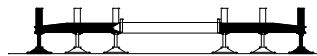
Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
25	77.5	35,600				
30	75.5	35,600	77.0	32,200	78.5	30,200
35	73.5	35,600	75.5	32,200	77.0	30,200
40	71.5	35,600	73.5	32,200	75.5	30,200
45	69.0	32,800	71.5	31,500	74.0	30,200
50	66.5	29,700	69.5	28,900	72.0	28,200
55	64.0	24,900	67.5	24,300	70.0	23,500
60	61.0	21,100	65.0	20,600	67.5	19,800
65	58.5	18,100	62.5	17,500	65.5	17,000
70	55.5	15,800	60.0	15,300	63.5	14,500
75	52.5	13,700	57.5	13,200	61.5	12,500
80	49.5	11,900	55.0	11,400	59.0	10,700
85	46.5	10,400	52.5	9,900	57.0	9,200
90	43.0	9,100	49.5	8,600	54.5	7,900
95	39.5	7,900	47.0	7,400	52.0	6,700
100	35.5	6,800	44.0	6,400	49.5	5,700
105	31.5	5,900	40.5	5,500	47.0	4,800
110	26.5	5,000	37.5	4,600	44.5	4,000
115	20.5	4,300	33.5	3,900	41.5	3,300
120	11.0	3,600	29.5	3,200	38.5	2,600
125			25.0	2,600	35.5	2,000
130			19.0	2,000	32.0	1,400
135			10.0	1,500		
Min.Bm. Ang./Cap.	0.0	3,500	0.0	1,400	30.0	
Radius (ft)	121.5		136.5		132.4	

Load Radius (ft)	170.0 ft		180.3 ft	
	$\angle$ °	360°	$\angle$ °	360°
35	78.0	28,000	78.5	24,900
40	76.5	28,000	77.5	24,900
45	75.0	28,000	76.0	24,900
50	73.5	27,600	75.0	24,900
55	71.5	22,900	73.0	22,300
60	69.5	19,200	71.0	18,600
65	67.5	16,400	69.0	15,900
70	65.5	14,000	67.5	13,500
75	63.5	11,900	65.5	11,400
80	61.5	10,200	63.5	9,700
85	59.5	8,700	61.5	8,200
90	57.0	7,400	59.5	6,900
95	55.0	6,200	57.5	5,800
100	53.0	5,200	55.5	4,800
105	50.5	4,300	53.5	3,900
110	48.0	3,500	51.5	3,100
115	45.5	2,800	49.0	2,300
120	43.0	2,100	47.0	1,700
125	40.5	1,500		
Min.Bm. Ang./Cap.	39.0		45.0	
Radius (ft)	127.6		123.6	



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Rated Lifting Capacities In Pounds



Full

8,000 lb



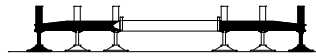
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft		100.0 ft	
		360°		360°		360°		360°		360°
10	69.5	254,200	74.0	77,300	77.5	68,700				
12	66.0	212,800	72.0	77,300	76.5	68,700				
15	61.5	169,800	69.0	77,300	74.0	68,700	76.5	69,000		
20	53.0	125,000	63.0	77,300	69.5	68,700	74.0	69,000	76.0	54,700
25	43.0	96,300	56.5	77,300	65.0	68,700	70.0	69,000	73.5	54,700
30	29.5	64,600	49.5	70,800	60.0	68,700	66.5	69,000	70.5	53,100
35			42.0	52,500	55.0	54,900	62.5	55,200	67.5	47,700
40			32.0	40,000	49.5	42,500	58.0	42,900	64.0	42,900
45			17.5	31,400	43.5	34,000	54.0	34,400	60.5	34,500
50					36.5	27,700	49.5	28,100	57.0	28,200
55					28.0	22,800	44.5	23,400	53.5	23,500
60					15.0	19,100	39.0	19,700	49.5	19,800
65							33.0	16,700	45.0	16,900
70							25.0	14,100	41.0	14,400
75							13.5	12,000	36.0	12,300
80									30.0	10,500
85									23.0	8,900
90									12.5	7,600
Min.Bm. Ang./Cap.	0.0	50,100	0.0	25,600	0.0	18,100	0.0	11,500	0.0	7,300
Radius (ft)	33.7		46.5		61.5		76.5		91.5	

Load Radius (ft)	115.0 ft		130.0 ft		145.0 ft		155.0 ft	
		360°		360°		360°		360°
20	78.5	54,000						
25	76.0	54,000	78.0	49,400				
30	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	68.0	41,300	71.5	38,700	74.0	40,300	75.5	35,500
45	65.5	33,900	69.0	33,200	72.0	32,200	73.5	31,700
50	62.5	27,700	66.0	27,100	69.5	26,100	71.0	25,500
55	59.0	23,000	63.5	22,400	67.0	21,400	69.0	20,900
60	56.0	19,300	61.0	18,700	64.5	17,800	66.5	17,300
65	53.0	16,400	58.0	15,900	62.5	15,000	64.5	14,600
70	49.5	14,000	55.5	13,400	60.0	12,600	62.5	12,200
75	46.0	11,900	52.5	11,400	57.5	10,600	60.0	10,100
80	42.0	10,200	49.5	9,700	55.0	8,900	58.0	8,400
85	38.0	8,600	46.5	8,200	52.5	7,400	55.5	6,900
90	33.5	7,300	43.0	6,900	49.5	6,100	53.0	5,700
95	28.0	6,100	39.5	5,700	47.0	5,000	50.5	4,500
100	21.5	5,100	35.5	4,700	44.0	4,000	48.0	3,500
105	11.5	4,200	31.5	3,800	40.5	3,100	45.0	2,700
110			26.5	2,900	37.5	2,200	42.5	1,900
115			20.0	2,200	34.0	1,500		
120			10.5	1,500				
Min.Bm. Ang./Cap.	0.0	3,900	0.0	1,400	33.0		40.5	
Radius (ft)	106.5		121.5		116.3		113.3	



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Rated Lifting Capacities In Pounds



Full

8,000 lb



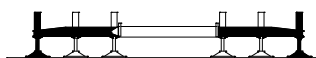
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
10	69.5	254,200	74.0	77,300	77.5	68,700		
12	66.0	212,800	72.0	77,300	76.5	68,700		
15	61.5	169,800	69.0	77,300	74.0	68,700	76.5	64,900
20	53.0	125,000	63.0	77,300	69.5	68,700	74.0	64,900
25	43.0	96,300	56.5	77,300	65.0	68,700	70.0	64,900
30	29.5	64,600	49.5	70,800	60.0	68,700	66.5	64,900
35			42.0	52,500	55.0	54,900	62.5	55,200
40			32.0	40,000	49.5	42,500	58.0	42,800
45			17.5	31,400	43.5	34,000	54.0	34,300
50					36.5	27,700	49.5	28,100
55					28.0	22,800	44.5	23,400
60					15.0	19,100	39.0	19,600
65							33.0	16,600
70							25.0	14,100
75							13.5	12,000
Min.Bm. Ang./Cap.	0.0	50,100	0.0	25,600	0.0	18,100	0.0	11,500
Radius (ft)	33.7		46.5		61.5		76.5	

Load Radius (ft)	100.0 ft		115.0 ft		129.6 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
20	76.0	65,000	78.5	61,300		
25	73.5	65,000	76.0	61,300	78.0	47,200
30	70.5	65,000	74.0	61,300	76.0	47,200
35	67.0	54,500	71.0	53,000	73.5	45,500
40	64.0	42,100	68.0	40,700	71.5	39,700
45	60.5	33,700	65.0	32,400	68.5	31,500
50	57.0	27,500	62.0	26,300	66.0	25,400
55	53.0	22,800	59.0	21,600	63.5	20,700
60	49.5	19,100	56.0	18,000	60.5	17,300
65	45.0	16,300	52.5	15,200	58.0	14,400
70	40.5	13,800	49.5	12,800	55.0	11,900
75	36.0	11,700	46.0	10,700	52.5	9,900
80	30.0	9,900	42.0	9,000	49.5	8,200
85	23.0	8,400	38.0	7,500	46.0	6,700
90	12.5	7,000	33.5	6,100	43.0	5,500
95			28.0	5,000	39.0	4,300
100			21.5	4,000	35.5	3,300
105			11.5	3,100	31.0	2,400
110					26.0	1,600
Min.Bm. Ang./Cap.	0.0	6,700	0.0	2,800	25.0	
Radius (ft)	91.5		106.5		110.8	



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Rated Lifting Capacities In Pounds



Full

8,000 lb

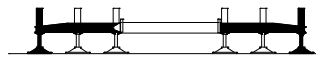


Load Radius (ft)	42.3 ft		56.4 ft		71.3 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	69.5	254,200	75.0	157,100	78.5	151,700
12	66.0	212,800	73.0	157,100	77.0	144,800
15	61.5	169,800	69.5	157,100	74.5	137,400
20	53.0	125,000	63.5	128,400	70.0	118,300
25	43.0	96,300	57.5	100,800	65.5	101,800
30	29.5	64,600	51.0	69,700	60.5	71,000
35			43.5	51,600	55.5	52,800
40			34.5	39,200	50.5	40,500
45			22.5	30,600	44.5	32,200
50					38.0	26,000
55					30.0	21,200
60					19.0	17,500
Min.Bm. Ang./Cap.	0.0	50,100	0.0	26,800	0.0	15,800
Radius (ft)	33.7		47.8		62.7	

Load Radius (ft)	87.1 ft		103.7 ft	
	$\angle$ °	360°	$\angle$ °	360°
15	77.5	110,100		
20	74.0	106,500	77.0	80,700
25	70.5	93,500	74.5	77,100
30	67.0	70,600	71.5	67,900
35	63.0	52,400	68.5	51,000
40	59.0	40,200	65.0	38,800
45	55.0	31,900	62.0	30,600
50	50.5	25,800	58.5	24,500
55	46.0	21,100	55.0	20,000
60	41.0	17,500	51.5	16,500
65	35.0	14,600	47.5	13,600
70	28.0	12,100	43.5	11,200
75	19.0	10,000	39.0	9,100
80			34.0	7,400
85			28.0	5,900
90			20.5	4,600
95			6.0	3,400
Min.Bm. Ang./Cap.	0.0	8,700	0.0	3,400
Radius (ft)	78.5		95.2	



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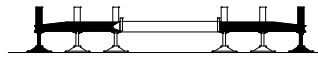
**Rated Lifting Capacities
In Pounds****Full****14,000 lb**

Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
		360°		360°		360°
10	69.5	260,000	74.0	77,300	77.5	51,000
12	66.0	217,700	72.0	77,300	76.5	51,000
15	61.5	173,800	69.0	77,300	73.5	51,000
20	53.0	128,000	63.0	77,300	69.5	51,000
25	43.0	99,700	56.5	77,300	65.0	51,000
30	29.5	71,400	49.5	77,300	60.0	51,000
35			42.0	57,800	55.0	51,000
40			32.0	44,900	49.5	46,400
45			17.5	35,500	43.5	39,100
50					36.5	32,200
55					28.0	26,900
60					15.0	22,800
Min.Bm. Ang./Cap.	0.0	55,900	0.0	25,600	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
		360°		360°		360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	43,200	64.0	36,200	68.0	36,900
45	54.5	39,700	60.5	33,000	65.5	33,800
50	49.5	33,400	57.5	30,300	62.5	31,000
55	45.0	28,200	53.5	27,900	59.5	28,600
60	39.5	24,100	50.0	24,700	56.5	24,600
65	33.0	20,700	45.5	21,400	53.5	21,300
70	25.5	17,900	41.0	18,700	50.0	18,600
75	13.5	15,700	36.0	16,500	46.0	16,400
80			30.5	14,500	42.5	14,500
85			23.5	12,800	38.5	12,800
90			12.5	11,300	33.5	11,300
95					28.5	10,000
100					22.0	8,900
105					11.5	7,800
Min.Bm. Ang./Cap.	0.0	10,800	0.0	8,700	0.0	7,100
Radius (ft)	76.5		91.5		106.5	



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**Rated Lifting Capacities
In Pounds**

Full
14,000 lb


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
25	77.0	31,400				
30	75.0	31,400	77.0	29,500	78.0	26,200
35	73.0	31,400	75.0	29,500	76.5	26,200
40	71.0	31,400	73.5	29,500	75.0	26,200
45	69.0	30,100	71.5	29,500	73.5	26,200
50	66.5	27,600	69.5	29,300	72.0	26,200
55	64.0	25,500	67.5	27,000	70.0	24,700
60	61.5	23,500	65.0	23,900	68.0	22,800
65	58.5	21,200	62.5	20,600	66.0	20,100
70	56.0	18,500	60.0	17,900	63.5	17,400
75	53.0	16,300	57.5	15,800	61.5	15,400
80	50.0	14,400	55.0	13,900	59.5	13,400
85	46.5	12,700	52.5	12,200	57.0	11,800
90	43.5	11,300	50.0	10,800	54.5	10,300
95	40.0	10,000	47.0	9,500	52.5	9,100
100	36.0	8,800	44.0	8,400	50.0	8,000
105	31.5	7,800	41.0	7,400	47.5	7,000
110	26.5	6,900	37.5	6,500	44.5	6,100
115	20.5	6,100	34.0	5,700	42.0	5,300
120	11.0	5,300	30.0	4,900	39.0	4,500
125			25.0	4,200	35.5	3,900
130			19.5	3,600	32.0	3,200
135			10.5	3,100	28.5	2,700
140					24.0	2,200
145					18.5	1,700
150					10.0	1,300
Min. Bm. Ang./Cap.	0.0	5,200	0.0	3,000	0.0	1,200
Radius (ft)	121.5		136.5		151.5	

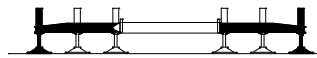
Load Radius (ft)	175.0 ft		185.0 ft		195.3 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
35	78.0	24,400	78.0	18,800		
40	76.5	24,400	77.0	18,800	77.5	17,000
45	75.0	24,400	75.5	18,800	76.0	17,000
50	73.5	24,400	74.5	18,800	75.0	17,000
55	72.5	24,400	73.0	18,800	74.0	17,000
60	70.5	22,600	71.5	18,800	72.5	17,000
65	68.5	19,300	70.0	18,800	71.5	17,000
70	66.5	16,900	68.5	16,400	69.5	15,900
75	64.5	14,600	66.5	14,100	68.0	13,700
80	62.5	12,700	64.5	12,200	66.0	11,800
85	60.5	11,000	62.5	10,600	64.5	10,100
90	58.5	9,600	61.0	9,100	62.5	8,700
95	56.5	8,400	59.0	7,900	61.0	7,500
100	54.0	7,200	57.0	6,800	59.0	6,400
105	52.0	6,300	55.0	5,800	57.0	5,400
110	50.0	5,400	53.0	4,900	55.0	4,500
115	47.5	4,600	50.5	4,100	53.0	3,700
120	45.0	3,900	48.5	3,400	51.0	3,000
125	42.5	3,200	46.0	2,800	49.0	2,300
130	40.0	2,600	44.0	2,200	47.0	1,700
135	37.0	2,000	41.5	1,600		
140	34.0	1,500				
Min. Bm. Ang./Cap.	31.0		39.5		45.5	
Radius (ft)	144.0		139.4		134.4	



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**Rated Lifting Capacities
In Pounds****Full****14,000 lb**

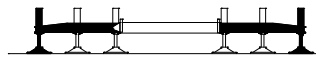
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	 °	360°	 °	360°	 °	360°
10	69.5	260,000	74.0	77,300	77.5	61,600
12	66.0	217,700	72.0	77,300	76.5	61,600
15	61.5	173,800	69.0	77,300	73.5	61,600
20	53.0	128,000	63.0	77,300	69.5	61,600
25	43.0	99,700	56.5	77,300	65.0	61,600
30	29.5	71,400	49.5	77,300	60.0	59,900
35			42.0	57,800	55.0	54,100
40			32.0	44,900	49.5	48,300
45			17.5	35,500	43.5	39,000
50					36.5	32,100
55					28.0	26,800
60					15.0	22,700
Min.Bm. Ang./Cap.	0.0	55,900	0.0	25,600	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	 °	360°	 °	360°	 °	360°
15	77.0	61,900				
20	73.5	61,900	76.0	52,900	78.0	39,000
25	70.0	59,400	73.5	52,900	75.5	39,000
30	66.5	52,800	70.5	47,800	73.5	39,000
35	62.5	47,400	67.5	43,100	71.0	39,000
40	58.5	43,000	64.0	39,300	68.5	36,600
45	54.5	39,400	61.0	36,000	65.5	33,400
50	49.5	33,300	57.5	33,200	62.5	30,700
55	45.0	28,100	53.5	28,500	60.0	28,300
60	39.5	23,900	50.0	24,400	56.5	24,300
65	33.0	20,500	45.5	21,100	53.5	21,000
70	25.5	17,800	41.0	18,400	50.0	18,300
75	13.5	15,500	36.0	16,100	46.5	16,100
80			30.5	14,100	42.5	14,200
85			23.5	12,400	38.5	12,500
90			12.5	11,000	33.5	11,000
95					28.5	9,700
100					22.0	8,500
105					12.0	7,500
Min.Bm. Ang./Cap.	0.0	12,000	0.0	9,800	0.0	7,300
Radius (ft)	76.5		91.5		106.5	



PORTLAND OFFICE: 503.283.3111
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Rated Lifting Capacities In Pounds



Full

14,000 lb



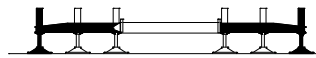
Load Radius (ft)	130.0 ft		140.0 ft		150.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
25	77.5	35,600				
30	75.5	35,600	77.0	32,200	78.5	30,200
35	73.5	35,600	75.5	32,200	77.0	30,200
40	71.5	35,600	73.5	32,200	75.5	30,200
45	69.0	32,800	71.5	31,500	74.0	30,200
50	66.5	30,200	69.5	28,900	72.0	29,100
55	64.0	27,900	67.5	26,600	70.5	26,600
60	61.5	23,900	65.0	23,400	68.0	22,600
65	58.5	20,600	62.5	20,100	66.0	19,300
70	56.0	17,900	60.5	17,400	64.0	16,800
75	53.0	15,800	58.0	15,300	61.5	14,600
80	50.0	13,900	55.0	13,400	59.5	12,700
85	46.5	12,200	52.5	11,700	57.0	11,000
90	43.5	10,800	50.0	10,300	54.5	9,600
95	40.0	9,500	47.0	9,000	52.5	8,300
100	36.0	8,300	44.0	7,900	50.0	7,200
105	31.5	7,300	41.0	6,900	47.5	6,200
110	26.5	6,400	37.5	6,000	44.5	5,400
115	20.5	5,600	34.0	5,200	42.0	4,600
120	11.0	4,800	30.0	4,400	39.0	3,800
125			25.0	3,700	35.5	3,100
130			19.5	3,100	32.5	2,500
135			10.5	2,600	28.5	2,000
140					24.0	1,500
Min. Bm. Ang./Cap.	0.0	4,700	0.0	2,500	20.0	
Radius (ft)	121.5		136.5		143.5	

Load Radius (ft)	170.0 ft		180.3 ft	
	$\angle$ °	360°	$\angle$ °	360°
35	78.0	28,000	78.5	24,900
40	76.5	28,000	77.5	24,900
45	75.0	28,000	76.0	24,900
50	74.0	28,000	75.0	24,900
55	72.0	26,000	73.5	24,900
60	70.0	22,000	71.5	21,400
65	68.0	18,700	69.5	18,200
70	66.0	16,300	67.5	15,800
75	64.0	14,000	65.5	13,600
80	61.5	12,100	64.0	11,700
85	59.5	10,500	62.0	10,000
90	57.5	9,100	60.0	8,600
95	55.5	7,800	58.0	7,400
100	53.0	6,700	56.0	6,300
105	51.0	5,700	53.5	5,300
110	48.5	4,900	51.5	4,400
115	46.0	4,100	49.5	3,600
120	43.5	3,400	47.0	2,900
125	40.5	2,700	44.5	2,300
130	38.0	2,100	42.0	1,700
135	34.5	1,500		
Min. Bm. Ang./Cap.	32.5		40.0	
Radius (ft)	138.2		133.8	



PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

14,000 lb



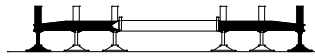
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft		100.0 ft	
		360°		360°		360°		360°		360°
10	69.5	260,000	74.0	77,300	77.5	68,700				
12	66.0	217,700	72.0	77,300	76.5	68,700				
15	61.5	173,800	69.0	77,300	74.0	68,700	76.5	69,000		
20	53.0	128,000	63.0	77,300	69.5	68,700	74.0	69,000	76.0	54,700
25	43.0	99,700	56.5	77,300	65.0	68,700	70.0	69,000	73.5	54,700
30	29.5	71,400	49.5	77,300	60.5	68,700	66.5	69,000	70.5	53,100
35			42.0	57,800	55.0	60,200	62.5	60,600	67.5	47,700
40			32.0	44,900	49.5	47,400	58.5	47,800	64.0	43,200
45			17.5	35,500	43.5	38,100	54.0	38,400	60.5	38,400
50					36.5	31,200	49.5	31,700	57.0	31,800
55					28.0	26,000	44.5	26,600	53.5	26,600
60					15.0	21,900	39.0	22,500	49.5	22,600
65							33.0	19,100	45.5	19,300
70							25.5	16,400	41.0	16,700
75							13.5	14,100	36.0	14,400
80									30.5	12,400
85									23.5	10,800
90									12.5	9,300
Min.Bm. Ang./Cap.	0.0	55,900	0.0	25,600	0.0	20,800	0.0	13,600	0.0	8,900
Radius (ft)	33.7		46.5		61.5		76.5		91.5	

Load Radius (ft)	115.0 ft		130.0 ft		145.0 ft		155.0 ft	
		360°		360°		360°		360°
20	78.5	54,000						
25	76.0	54,000	78.0	49,400				
30	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	68.0	41,300	71.5	38,700	74.0	40,300	75.5	35,500
45	65.5	37,600	69.0	35,300	72.0	36,100	73.5	33,000
50	62.5	31,200	66.5	30,600	69.5	29,700	71.5	29,100
55	59.5	26,100	63.5	25,500	67.5	24,600	69.5	24,000
60	56.0	22,100	61.0	21,500	65.0	20,600	67.0	20,100
65	53.0	18,800	58.5	18,200	62.5	17,400	65.0	17,100
70	49.5	16,300	55.5	15,700	60.0	14,900	62.5	14,500
75	46.0	14,000	52.5	13,500	57.5	12,700	60.5	12,200
80	42.0	12,100	49.5	11,600	55.0	10,800	58.0	10,400
85	38.0	10,500	46.5	10,000	52.5	9,200	55.5	8,800
90	33.5	9,000	43.0	8,600	50.0	7,800	53.0	7,400
95	28.0	7,700	39.5	7,300	47.0	6,600	50.5	6,100
100	21.5	6,600	35.5	6,200	44.0	5,500	48.0	5,000
105	11.5	5,600	31.5	5,200	41.0	4,500	45.5	4,100
110			26.5	4,300	37.5	3,600	42.5	3,200
115			20.5	3,500	34.0	2,800	39.5	2,400
120			11.0	2,800	30.0	2,100	36.5	1,700
125					25.5	1,400		
Min.Bm. Ang./Cap.	0.0	5,300	0.0	2,600	24.5		34.5	
Radius (ft)	106.5		121.5		125.8		122.6	



PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

14,000 lb



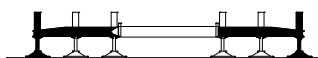
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
10	69.5	260,000	74.0	77,300	77.5	68,700		
12	66.0	217,700	72.0	77,300	76.5	68,700		
15	61.5	173,800	69.0	77,300	74.0	68,700	76.5	64,900
20	53.0	128,000	63.0	77,300	69.5	68,700	74.0	64,900
25	43.0	99,700	56.5	77,300	65.0	68,700	70.0	64,900
30	29.5	71,400	49.5	77,300	60.5	68,700	66.5	64,900
35			42.0	57,800	55.0	60,200	62.5	60,500
40			32.0	44,900	49.5	47,400	58.5	47,700
45			17.5	35,500	43.5	38,100	54.0	38,400
50					36.5	31,200	49.5	31,700
55					28.0	26,000	44.5	26,500
60					15.0	21,900	39.0	22,400
65							33.0	19,100
70							25.5	16,400
75							13.5	14,100
Min.Bm. Ang./Cap.	0.0	55,900	0.0	25,600	0.0	20,800	0.0	13,500
Radius (ft)	33.7		46.5		61.5		76.5	

Load Radius (ft)	100.0 ft		115.0 ft		129.6 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
20	76.0	65,000	78.5	61,300		
25	73.5	65,000	76.0	61,300	78.0	47,200
30	70.5	65,000	74.0	61,300	76.0	47,200
35	67.5	59,800	71.0	58,300	73.5	45,500
40	64.0	47,100	68.0	45,600	71.5	40,800
45	60.5	37,700	65.0	36,400	69.0	35,400
50	57.0	31,100	62.5	29,900	66.5	28,900
55	53.5	26,000	59.0	24,800	63.5	23,900
60	49.5	21,900	56.0	20,800	61.0	19,900
65	45.0	18,700	53.0	17,600	58.0	16,900
70	41.0	16,100	49.5	15,100	55.5	14,200
75	36.0	13,800	46.0	12,800	52.5	12,000
80	30.0	11,900	42.0	11,000	49.5	10,200
85	23.0	10,200	38.0	9,300	46.5	8,600
90	12.5	8,700	33.5	7,800	43.0	7,200
95			28.0	6,600	39.5	5,900
100			21.5	5,500	35.5	4,800
105			11.5	4,500	31.0	3,800
110					26.0	2,900
115					20.0	2,100
120					9.5	1,400
Min.Bm. Ang./Cap.	0.0	8,400	0.0	4,200	4.5	
Radius (ft)	91.5		106.5		120.6	



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Rated Lifting Capacities In Pounds



Full

14,000 lb



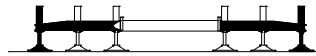
Load Radius (ft)	42.3 ft		56.4 ft		71.3 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	69.5	260,000	75.0	157,100	78.5	151,700
12	66.0	217,700	73.0	157,100	77.0	144,800
15	61.5	173,800	69.5	157,100	74.5	137,400
20	53.0	128,000	63.5	131,500	70.0	118,300
25	43.0	99,700	57.5	103,200	65.5	103,700
30	29.5	71,400	51.0	76,500	61.0	77,800
35			43.5	57,000	56.0	58,200
40			34.5	44,100	50.5	45,400
45			22.5	34,800	44.5	36,200
50					38.0	29,600
55					30.0	24,300
60					19.0	20,300
Min.Bm. Ang./Cap.	0.0	55,900	0.0	30,600	0.0	18,400
Radius (ft)	33.7		47.8		62.7	

Load Radius (ft)	87.1 ft		103.7 ft	
	$\angle$ °	360°	$\angle$ °	360°
15	77.5	110,100		
20	74.0	106,500	77.0	80,700
25	70.5	93,500	74.5	77,100
30	67.0	77,400	71.5	67,900
35	63.0	57,800	68.5	56,400
40	59.0	45,100	65.0	43,700
45	55.0	35,900	62.0	34,600
50	50.5	29,300	58.5	28,100
55	46.0	24,300	55.0	23,100
60	41.0	20,300	51.5	19,100
65	35.0	17,100	47.5	16,100
70	28.5	14,400	43.5	13,500
75	19.0	12,100	39.0	11,300
80			34.0	9,300
85			28.0	7,700
90			20.5	6,300
95			6.0	5,000
Min.Bm. Ang./Cap.	0.0	10,700	0.0	5,000
Radius (ft)	78.5		95.2	



PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

20,000 lb

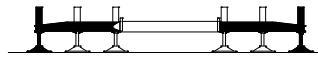


Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	51,000
12	66.0	222,700	72.0	77,300	76.5	51,000
15	61.5	177,800	69.0	77,300	73.5	51,000
20	53.0	131,100	63.0	77,300	69.5	51,000
25	43.0	102,200	56.5	77,300	65.0	51,000
30	29.5	78,200	50.0	77,300	60.0	51,000
35			42.0	63,100	55.0	51,000
40			32.5	49,400	49.5	46,400
45			17.5	39,600	43.5	42,500
50					37.0	35,700
55					28.5	30,100
60					15.5	25,600
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	43,200	64.0	36,200	68.0	36,900
45	54.5	39,700	60.5	33,000	65.5	33,800
50	50.0	36,500	57.5	30,300	62.5	31,000
55	45.0	31,300	53.5	27,900	59.5	28,600
60	39.5	26,900	50.0	25,900	56.5	26,500
65	33.5	23,200	46.0	24,000	53.5	23,800
70	25.5	20,200	41.5	21,000	50.0	20,900
75	14.0	17,700	36.5	18,500	46.5	18,400
80			30.5	16,400	42.5	16,500
85			23.5	14,600	38.5	14,600
90			12.5	13,000	34.0	13,000
95					28.5	11,600
100					22.0	10,400
105					12.0	9,300
Min.Bm. Ang./Cap.	0.0	10,800	0.0	8,700	0.0	7,100
Radius (ft)	76.5		91.5		106.5	



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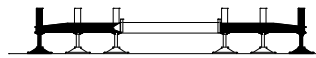
**Rated Lifting Capacities
In Pounds**

Full
20,000 lb


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
		360°		360°		360°
25	77.0	31,400				
30	75.0	31,400	77.0	29,500	78.0	26,200
35	73.0	31,400	75.0	29,500	76.5	26,200
40	71.0	31,400	73.5	29,500	75.0	26,200
45	69.0	30,100	71.5	29,500	73.5	26,200
50	66.5	27,600	69.5	29,300	72.0	26,200
55	64.0	25,500	67.5	27,000	70.0	24,700
60	61.5	23,500	65.5	25,000	68.0	22,800
65	59.0	21,900	63.0	23,200	66.0	21,100
70	56.0	20,500	60.5	20,200	64.0	19,700
75	53.0	18,300	58.0	17,700	62.0	17,300
80	50.0	16,400	55.5	15,900	59.5	15,400
85	47.0	14,600	53.0	14,100	57.5	13,600
90	43.5	13,000	50.0	12,500	55.0	12,000
95	40.0	11,600	47.0	11,100	52.5	10,700
100	36.0	10,300	44.5	9,900	50.0	9,500
105	32.0	9,200	41.0	8,800	47.5	8,400
110	27.0	8,200	38.0	7,800	45.0	7,400
115	20.5	7,400	34.0	6,900	42.0	6,600
120	11.0	6,600	30.0	6,100	39.0	5,800
125			25.5	5,400	36.0	5,000
130			19.5	4,700	32.5	4,400
135			10.5	4,200	28.5	3,700
140					24.0	3,200
145					18.5	2,700
150					10.0	2,200
Min. Bm. Ang./Cap.	0.0	5,400	0.0	4,000	0.0	2,100
Radius (ft)	121.5		136.5		151.5	
Load Radius (ft)	175.0 ft		185.0 ft		195.3 ft	
		360°		360°		360°
35	78.0	24,400	78.0	18,800		
40	76.5	24,400	77.0	18,800	77.5	17,000
45	75.0	24,400	75.5	18,800	76.0	17,000
50	73.5	24,400	74.5	18,800	75.0	17,000
55	72.5	24,400	73.0	18,800	74.0	17,000
60	70.5	23,800	71.5	18,800	72.5	17,000
65	68.5	20,800	70.0	18,800	71.5	17,000
70	67.0	18,900	68.5	18,400	70.0	17,000
75	65.0	16,700	67.0	16,200	68.5	15,800
80	63.0	14,600	65.0	14,200	66.5	13,700
85	61.0	12,900	63.0	12,400	65.0	11,900
90	59.0	11,300	61.0	10,800	63.0	10,400
95	56.5	10,000	59.0	9,500	61.0	9,000
100	54.5	8,800	57.0	8,300	59.5	7,900
105	52.5	7,700	55.0	7,200	57.5	6,800
110	50.0	6,700	53.0	6,300	55.5	5,800
115	47.5	5,900	51.0	5,400	53.5	5,000
120	45.5	5,100	49.0	4,600	51.5	4,200
125	43.0	4,400	46.5	3,900	49.5	3,500
130	40.0	3,700	44.0	3,300	47.5	2,900
135	37.5	3,100	41.5	2,700	45.0	2,300
140	34.5	2,500	39.0	2,100	43.0	1,700
145	31.0	2,000	36.5	1,600	40.5	1,200
150	27.5	1,600				
Min. Bm. Ang./Cap.	23.0		33.5		40.5	
Radius (ft)	155.0		150.0		145.4	



PORTLAND OFFICE: 503.293.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

20,000 lb



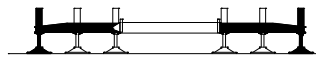
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
		360°		360°		360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	61,600
12	66.0	222,700	72.0	77,300	76.5	61,600
15	61.5	177,800	69.0	77,300	73.5	61,600
20	53.0	131,100	63.0	77,300	69.5	61,600
25	43.0	102,200	56.5	77,300	65.0	61,600
30	29.5	78,200	50.0	77,300	60.0	59,900
35			42.0	63,100	55.0	54,100
40			32.5	49,400	49.5	49,400
45			17.5	39,600	43.5	43,100
50					37.0	35,600
55					28.5	29,900
60					15.5	25,500
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
		360°		360°		360°
15	77.0	61,900				
20	73.5	61,900	76.0	52,900	78.0	39,000
25	70.0	59,400	73.5	52,900	75.5	39,000
30	66.5	52,800	70.5	47,800	73.5	39,000
35	62.5	47,400	67.5	43,100	71.0	39,000
40	58.5	43,000	64.0	39,300	68.5	36,600
45	54.5	39,400	61.0	36,000	65.5	33,400
50	50.0	36,300	57.5	33,200	62.5	30,700
55	45.0	31,200	54.0	30,700	60.0	28,300
60	39.5	26,700	50.0	27,200	56.5	26,200
65	33.5	23,100	46.0	23,600	53.5	23,500
70	25.5	20,100	41.5	20,700	50.0	20,600
75	14.0	17,600	36.5	18,100	46.5	18,100
80			30.5	16,100	42.5	16,100
85			23.5	14,200	38.5	14,300
90			12.5	12,700	34.0	12,700
95					28.5	11,300
100					22.0	10,100
105					12.0	9,000
Min.Bm. Ang./Cap.	0.0	12,000	0.0	9,800	0.0	8,000
Radius (ft)	76.5		91.5		106.5	



PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

20,000 lb



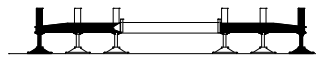
Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
		360°		360°		360°
25	77.5	35,600				
30	75.5	35,600	77.0	32,200	78.5	30,200
35	73.5	35,600	75.5	32,200	77.0	30,200
40	71.5	35,600	73.5	32,200	75.5	30,200
45	69.0	32,800	71.5	31,500	74.0	30,200
50	66.5	30,200	69.5	28,900	72.0	29,100
55	64.0	27,900	67.5	26,600	70.5	26,800
60	61.5	25,900	65.5	24,600	68.5	24,800
65	59.0	23,100	63.0	22,600	66.0	21,800
70	56.0	20,200	60.5	19,700	64.0	18,900
75	53.0	17,700	58.0	17,200	62.0	16,700
80	50.0	15,800	55.5	15,300	59.5	14,600
85	47.0	14,000	53.0	13,500	57.5	12,800
90	43.5	12,500	50.0	12,000	55.0	11,300
95	40.0	11,100	47.5	10,600	52.5	9,900
100	36.0	9,800	44.5	9,400	50.0	8,700
105	32.0	8,700	41.0	8,300	47.5	7,700
110	27.0	7,700	38.0	7,300	45.0	6,700
115	20.5	6,900	34.0	6,400	42.0	5,800
120	11.0	6,100	30.0	5,600	39.0	5,000
125			25.5	4,900	36.0	4,300
130			19.5	4,300	32.5	3,600
135			10.5	3,700	28.5	3,000
140					24.0	2,500
145					18.5	2,000
150					10.0	1,500
Min. Bm. Ang./Cap.	0.0	5,900	0.0	3,500	0.0	1,400
Radius (ft)	121.5		136.5		151.5	

Load Radius (ft)	170.0 ft		180.3 ft	
		360°		360°
35	78.0	28,000	78.5	24,900
40	76.5	28,000	77.5	24,900
45	75.0	28,000	76.0	24,900
50	74.0	28,000	75.0	24,900
55	72.5	27,900	73.5	24,900
60	70.5	24,800	72.0	24,100
65	68.5	21,200	70.0	20,700
70	66.0	18,300	68.0	17,800
75	64.0	16,200	66.0	15,700
80	62.0	14,100	64.0	13,600
85	60.0	12,300	62.0	11,800
90	58.0	10,800	60.0	10,300
95	55.5	9,400	58.0	9,000
100	53.5	8,200	56.0	7,800
105	51.0	7,200	54.0	6,700
110	48.5	6,200	52.0	5,800
115	46.0	5,300	49.5	4,900
120	43.5	4,600	47.5	4,100
125	41.0	3,900	45.0	3,400
130	38.0	3,200	42.5	2,800
135	35.0	2,600	40.0	2,200
140	31.5	2,000	37.0	1,600
145	28.0	1,500		
Min. Bm. Ang./Cap.	24.5		35.0	
Radius (ft)	149.0		143.7	



PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

20,000 lb



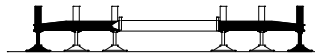
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft		100.0 ft	
		360°		360°		360°		360°		360°
9	71.0	280,000								
10	69.5	264,900	74.0	77,300	77.5	68,700				
12	66.0	222,700	72.0	77,300	76.5	68,700				
15	61.5	177,800	69.0	77,300	74.0	68,700	76.5	69,000		
20	53.0	131,100	63.0	77,300	69.5	68,700	74.0	69,000	76.0	54,700
25	43.0	102,200	56.5	77,300	65.0	68,700	70.0	69,000	73.5	54,700
30	29.5	78,200	50.0	77,300	60.5	68,700	66.5	69,000	70.5	53,100
35			42.0	63,100	55.0	65,500	62.5	65,900	67.5	47,700
40			32.5	49,400	49.5	51,900	58.5	52,100	64.0	43,200
45			17.5	39,600	43.5	42,200	54.0	42,500	60.5	39,600
50					36.5	34,800	49.5	35,200	57.5	35,200
55					28.0	29,100	44.5	29,700	53.5	29,700
60					15.5	24,700	39.0	25,300	49.5	25,400
65							33.0	21,600	45.5	21,800
70							25.5	18,700	41.0	18,900
75							13.5	16,300	36.0	16,500
80									30.5	14,400
85									23.5	12,600
90									12.5	11,000
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	20,800	0.0	15,600	0.0	10,600
Radius (ft)	33.7		46.5		61.5		76.5		91.5	

Load Radius (ft)	115.0 ft		130.0 ft		145.0 ft		155.0 ft	
		360°		360°		360°		360°
20	78.5	54,000						
25	76.0	54,000	78.0	49,400				
30	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	68.0	41,300	71.5	38,700	74.0	40,300	75.5	35,500
45	65.5	37,600	69.0	35,300	72.0	36,800	73.5	33,000
50	62.5	34,400	66.5	32,300	70.0	33,200	71.5	30,000
55	59.5	29,200	64.0	28,600	67.5	27,700	69.5	27,200
60	56.5	24,900	61.5	24,300	65.5	23,400	67.5	22,900
65	53.0	21,300	58.5	20,800	63.0	19,900	65.0	19,400
70	49.5	18,400	55.5	17,900	60.5	17,200	63.0	16,800
75	46.0	16,200	53.0	15,600	58.0	14,800	60.5	14,400
80	42.5	14,100	50.0	13,600	55.5	12,800	58.5	12,300
85	38.0	12,300	46.5	11,800	52.5	11,000	56.0	10,600
90	33.5	10,700	43.5	10,300	50.0	9,500	53.5	9,100
95	28.5	9,300	39.5	8,900	47.0	8,200	51.0	7,700
100	22.0	8,100	36.0	7,700	44.5	7,000	48.5	6,500
105	11.5	7,000	31.5	6,600	41.0	5,900	45.5	5,500
110			26.5	5,600	38.0	4,900	43.0	4,600
115			20.5	4,800	34.0	4,100	40.0	3,700
120			11.0	4,000	30.0	3,300	36.5	2,900
125					25.5	2,600	33.0	2,200
130					19.5	1,900	29.0	1,500
135					10.5	1,300		
Min.Bm. Ang./Cap.	0.0	6,700	0.0	3,800	3.0		27.5	
Radius (ft)	106.5		121.5		136.1		151.7	



PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

20,000 lb



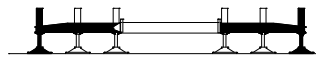
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	68,700
12	66.0	222,700	72.0	77,300	76.5	68,700
15	61.5	177,800	69.0	77,300	74.0	68,700
20	53.0	131,100	63.0	77,300	69.5	68,700
25	43.0	102,200	56.5	77,300	65.0	68,700
30	29.5	78,200	50.0	77,300	60.5	68,700
35			42.0	63,100	55.0	65,500
40			32.5	49,400	49.5	51,900
45			17.5	39,600	43.5	42,200
50					36.5	34,800
55					28.0	29,100
60					15.5	24,700
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	20,800
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft		129.6 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
15	76.5	64,900						
20	74.0	64,900	76.0	65,000	78.5	61,300		
25	70.0	64,900	73.5	65,000	76.0	61,300	78.0	47,200
30	66.5	64,900	70.5	65,000	74.0	61,300	76.0	47,200
35	62.5	64,900	67.5	65,000	71.5	61,300	73.5	45,500
40	58.5	52,000	64.0	51,500	68.5	50,200	71.5	40,800
45	54.0	42,500	60.5	41,900	65.5	40,500	69.0	36,800
50	49.5	35,100	57.0	34,700	62.5	33,400	66.5	32,500
55	44.5	29,700	53.5	29,100	59.5	27,900	64.0	27,000
60	39.0	25,200	49.5	24,700	56.0	23,600	61.0	22,700
65	33.0	21,600	45.5	21,200	53.0	20,100	58.5	19,200
70	25.5	18,700	41.0	18,300	49.5	17,200	55.5	16,500
75	13.5	16,200	36.0	15,900	46.0	15,000	52.5	14,200
80			30.5	13,800	42.0	12,900	49.5	12,100
85			23.5	12,000	38.0	11,100	46.5	10,400
90			12.5	10,400	33.5	9,500	43.0	8,900
95					28.5	8,200	39.5	7,500
100					21.5	7,000	35.5	6,300
105					11.5	5,900	31.5	5,200
110							26.5	4,300
115							20.0	3,400
120							9.5	2,600
Min.Bm. Ang./Cap.	0.0	15,600	0.0	10,000	0.0	5,600	0.0	2,500
Radius (ft)	76.5		91.5		106.5		121.0	



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Rated Lifting Capacities In Pounds



Full

20,000 lb



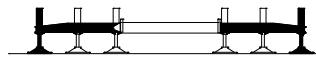
Load Radius (ft)	42.3 ft		56.4 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
9	71.0	280,000		
10	69.5	264,900	75.0	157,100
12	66.0	222,700	73.0	157,100
15	61.5	177,800	69.5	157,100
20	53.0	131,100	64.0	134,600
25	43.0	102,200	57.5	105,700
30	29.5	78,200	51.0	83,300
35			43.5	62,300
40			34.5	48,600
45			22.5	38,800
Min.Bm. Ang./Cap.	0.0	59,600	0.0	34,400
Radius (ft)	33.7		47.8	

Load Radius (ft)	71.3 ft		87.1 ft		103.7 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
10	78.5	151,700				
12	77.0	144,800				
15	74.5	137,400	77.5	110,100		
20	70.0	118,300	74.0	106,500	77.0	80,700
25	65.5	103,700	70.5	93,500	74.5	77,100
30	61.0	84,600	67.0	83,200	71.5	67,900
35	56.0	63,500	63.5	63,100	68.5	60,500
40	50.5	50,000	59.0	49,700	65.5	48,300
45	44.5	40,400	55.0	40,000	62.0	38,700
50	38.0	33,100	50.5	32,900	58.5	31,700
55	30.0	27,500	46.0	27,400	55.0	26,200
60	19.0	23,100	41.0	23,100	51.5	21,900
65			35.0	19,500	47.5	18,500
70			28.5	16,700	43.5	15,800
75			19.0	14,200	39.0	13,400
80					34.0	11,300
85					28.0	9,500
90					21.0	8,000
95					6.0	6,600
Min.Bm. Ang./Cap.	0.0	21,000	0.0	12,700	0.0	6,600
Radius (ft)	62.7		78.5		95.2	



PORTLAND OFFICE: 503.283.3111
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Rated Lifting Capacities In Pounds



Full

32,000 lb

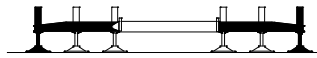


Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
		360°		360°		360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	51,000
12	66.0	232,400	72.0	77,300	76.5	51,000
15	61.5	185,800	69.0	77,300	73.5	51,000
20	53.0	137,300	63.0	77,300	69.5	51,000
25	43.0	107,100	56.5	77,300	65.0	51,000
30	29.5	86,700	50.0	77,300	60.0	51,000
35			42.0	73,700	55.0	51,000
40			32.5	58,100	49.5	46,400
45			17.5	47,100	43.5	42,500
50					37.0	39,400
55					28.5	36,100
60					15.5	31,200
Min.Bm. Ang. / Cap.	0.0	59,600	0.0	25,600	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
		360°		360°		360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	43,200	64.0	36,200	68.0	36,900
45	54.5	39,700	60.5	33,000	65.5	33,800
50	50.0	36,500	57.5	30,300	62.5	31,000
55	45.0	33,700	53.5	27,900	59.5	28,600
60	39.5	31,300	50.0	25,900	56.5	26,500
65	33.5	28,300	46.0	24,100	53.5	24,700
70	26.0	24,800	41.5	22,500	50.5	23,100
75	14.0	22,000	36.5	21,100	47.0	21,600
80			31.0	19,900	43.0	20,200
85			24.0	18,100	39.0	18,100
90			13.0	16,400	34.0	16,400
95					29.0	14,800
100					22.5	13,400
105					12.0	12,100
Min.Bm. Ang. / Cap.	0.0	10,800	0.0	8,700	0.0	7,100
Radius (ft)	76.5		91.5		106.5	



PORTLAND OFFICE: 503.283.3111
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**Rated Lifting Capacities
In Pounds**

Full
32,000 lb


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
		360°		360°		360°
25	77.0	31,400				
30	75.0	31,400	77.0	29,500	78.0	26,200
35	73.0	31,400	75.0	29,500	76.5	26,200
40	71.0	31,400	73.5	29,500	75.0	26,200
45	69.0	30,100	71.5	29,500	73.5	26,200
50	66.5	27,600	69.5	29,300	72.0	26,200
55	64.0	25,500	67.5	27,000	70.0	24,700
60	61.5	23,500	65.5	25,000	68.0	22,800
65	59.0	21,900	63.0	23,200	66.0	21,100
70	56.0	20,500	60.5	21,600	64.0	19,800
75	53.5	19,100	58.5	20,300	62.0	18,400
80	50.5	17,900	56.0	19,000	60.0	17,200
85	47.5	16,800	53.5	17,500	57.5	16,000
90	44.0	15,800	50.5	15,900	55.5	15,000
95	40.5	14,800	47.5	14,300	53.0	13,900
100	36.5	13,300	45.0	12,900	50.5	12,500
105	32.5	12,100	41.5	11,700	48.0	11,200
110	27.5	10,900	38.5	10,500	45.5	10,100
115	21.0	9,900	34.5	9,500	42.5	9,100
120	11.5	9,000	30.5	8,600	39.5	8,200
125			26.0	7,700	36.5	7,400
130			20.0	7,000	33.0	6,600
135			11.0	6,300	29.0	5,900
140					24.5	5,200
145					19.0	4,700
150					10.5	4,100
Min. Bm. Ang. / Cap.	0.0	5,400	0.0	4,800	0.0	4,000
Radius (ft)	121.5		136.5		151.5	

Load Radius (ft)	175.0 ft		185.0 ft		195.3 ft	
		360°		360°		360°
35	78.0	24,400	78.0	18,800		
40	76.5	24,400	77.0	18,800	77.5	17,000
45	75.0	24,400	75.5	18,800	76.0	17,000
50	73.5	24,400	74.5	18,800	75.0	17,000
55	72.5	24,400	73.0	18,800	74.0	17,000
60	70.5	23,800	71.5	18,800	72.5	17,000
65	68.5	20,800	70.0	18,800	71.5	17,000
70	67.0	20,700	69.0	18,800	70.0	17,000
75	65.5	19,300	67.5	18,800	68.5	17,000
80	63.5	18,100	65.5	17,800	67.5	17,000
85	61.5	16,500	64.0	16,000	65.5	15,600
90	59.5	14,700	62.0	14,200	63.5	13,800
95	57.5	13,100	60.0	12,700	62.0	12,200
100	55.0	11,800	58.0	11,300	60.0	10,900
105	53.0	10,500	56.0	10,100	58.0	9,600
110	50.5	9,400	53.5	9,000	56.0	8,500
115	48.5	8,400	51.5	8,000	54.5	7,500
120	46.0	7,500	49.5	7,100	52.5	6,700
125	43.5	6,700	47.0	6,300	50.0	5,800
130	40.5	5,900	45.0	5,500	48.0	5,100
135	38.0	5,200	42.5	4,800	46.0	4,400
140	35.0	4,600	39.5	4,200	43.5	3,800
145	31.5	4,000	37.0	3,600	41.0	3,200
150	28.0	3,500	34.0	3,000	38.5	2,600
155	23.5	3,000	31.0	2,500	36.0	2,100
160	18.5	2,500	27.0	2,100	33.0	1,700
165	10.0	2,100	23.0	1,600	30.0	1,200
170			18.0	1,200		
Min. Bm. Ang. / Cap.	0.0	2,000	15.5		29.0	
Radius (ft)	166.5		171.7		166.3	

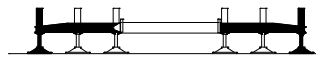


PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

WWW.NESSCAMPBELL.COM

Rated Lifting Capacities In Pounds



Full

32,000 lb



Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	61,600
12	66.0	232,400	72.0	77,300	76.5	61,600
15	61.5	185,800	69.0	77,300	73.5	61,600
20	53.0	137,300	63.0	77,300	69.5	61,600
25	43.0	107,100	56.5	77,300	65.0	61,600
30	29.5	86,700	50.0	77,300	60.0	59,900
35			42.0	73,700	55.0	54,100
40			32.5	58,100	49.5	49,400
45			17.5	47,100	43.5	45,400
50					37.0	42,000
55					28.5	36,000
60					15.5	31,100
Min.Bm. Ang. / Cap.	0.0	59,600	0.0	25,600	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft		130.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
15	77.0	61,900						
20	73.5	61,900	76.0	52,900	78.0	39,000		
25	70.0	59,400	73.5	52,900	75.5	39,000	77.5	35,600
30	66.5	52,800	70.5	47,800	73.5	39,000	75.5	35,600
35	62.5	47,400	67.5	43,100	71.0	39,000	73.5	35,600
40	58.5	43,000	64.0	39,300	68.5	36,600	71.5	35,600
45	54.5	39,400	61.0	36,000	65.5	33,400	69.0	32,800
50	50.0	36,300	57.5	33,200	62.5	30,700	66.5	30,200
55	45.0	33,500	54.0	30,700	60.0	28,300	64.0	27,900
60	39.5	31,200	50.0	28,500	56.5	26,200	61.5	25,900
65	33.5	28,100	46.0	26,600	53.5	24,400	59.0	24,100
70	26.0	24,700	41.5	24,900	50.5	22,800	56.5	22,500
75	14.0	21,800	36.5	22,400	47.0	21,300	53.5	21,100
80			31.0	19,900	43.0	19,900	50.5	19,600
85			24.0	17,800	39.0	17,800	47.5	17,500
90			13.0	16,100	34.5	16,100	44.0	15,900
95					29.0	14,500	40.5	14,300
100					22.5	13,100	36.5	12,800
105					12.5	11,800	32.0	11,600
110							27.0	10,400
115							21.0	9,400
120							11.5	8,500
Min.Bm. Ang. / Cap.	0.0	12,000	0.0	9,800	0.0	8,000	0.0	6,200
Radius (ft)	76.5		91.5		106.5		121.5	

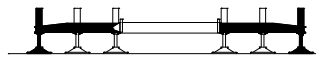


PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

WWW.NESSCAMPBELL.COM

Rated Lifting Capacities In Pounds



Full

32,000 lb



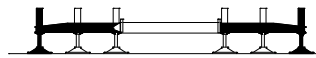
Load Radius (ft)	145.0 ft		160.0 ft	
		360°		360°
30	77.0	32,200	78.5	30,200
35	75.5	32,200	77.0	30,200
40	73.5	32,200	75.5	30,200
45	71.5	31,500	74.0	30,200
50	69.5	28,900	72.0	29,100
55	67.5	26,600	70.5	26,800
60	65.5	24,600	68.5	24,800
65	63.0	22,800	66.5	23,100
70	60.5	21,200	64.5	21,500
75	58.5	19,900	62.5	20,100
80	56.0	18,600	60.0	18,300
85	53.5	17,100	58.0	16,500
90	50.5	15,400	55.5	14,700
95	48.0	13,800	53.0	13,100
100	45.0	12,400	50.5	11,700
105	41.5	11,200	48.0	10,500
110	38.5	10,000	45.5	9,400
115	34.5	9,000	42.5	8,400
120	30.5	8,100	39.5	7,500
125	26.0	7,200	36.5	6,600
130	20.0	6,500	33.0	5,900
135	11.0	5,800	29.0	5,200
140			24.5	4,500
145			19.0	4,000
150			10.5	3,400
Min. Bm. Ang. / Cap.	0.0	4,700	0.0	3,100
Radius (ft)	136.5		151.5	

Load Radius (ft)	170.0 ft		180.3 ft	
		360°		360°
35	78.0	28,000	78.5	24,900
40	76.5	28,000	77.5	24,900
45	75.0	28,000	76.0	24,900
50	74.0	28,000	75.0	24,900
55	72.5	27,900	73.5	24,900
60	70.5	26,000	72.0	24,100
65	68.5	24,200	70.0	22,200
70	67.0	22,600	68.5	20,600
75	65.0	20,100	66.5	19,000
80	62.5	17,800	65.0	17,300
85	60.5	16,000	63.0	15,500
90	58.5	14,200	61.0	13,700
95	56.0	12,600	59.0	12,100
100	54.0	11,200	57.0	10,800
105	51.5	10,000	54.5	9,500
110	49.5	8,900	52.5	8,400
115	47.0	7,900	50.5	7,500
120	44.0	7,000	48.0	6,600
125	41.5	6,200	45.5	5,800
130	38.5	5,400	43.0	5,000
135	35.5	4,700	40.5	4,300
140	32.0	4,100	37.5	3,700
145	28.5	3,500	34.5	3,100
150	24.0	3,000	31.5	2,500
155	19.0	2,500	28.0	2,000
160	10.5	2,000	23.5	1,600
Min. Bm. Ang. / Cap.	0.0	1,900	18.5	
Radius (ft)	161.5		165.0	



PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

32,000 lb



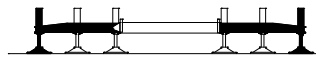
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft	
		360°		360°		360°		360°
9	71.0	280,000						
10	69.5	264,900	74.0	77,300	77.5	68,700		
12	66.0	232,400	72.0	77,300	76.5	68,700		
15	61.5	185,800	69.0	77,300	74.0	68,700	76.5	69,000
20	53.0	137,300	63.0	77,300	69.5	68,700	74.0	69,000
25	43.0	107,100	56.5	77,300	65.0	68,700	70.0	69,000
30	29.5	86,700	50.0	77,300	60.5	68,700	66.5	69,000
35			42.0	73,700	55.5	68,700	62.5	69,000
40			32.5	58,100	49.5	60,500	58.5	60,800
45			17.5	47,100	43.5	49,600	54.5	50,000
50					37.0	41,400	49.5	42,000
55					28.5	35,200	45.0	35,700
60					15.5	30,200	39.5	30,900
65							33.0	26,700
70							25.5	23,300
75							14.0	20,400
Min.Bm. Ang. / Cap.	0.0	59,600	0.0	25,600	0.0	20,800	0.0	16,700
Radius (ft)	33.7		46.5		61.5		76.5	

Load Radius (ft)	100.0 ft		115.0 ft		130.0 ft		145.0 ft		155.0 ft	
		360°		360°		360°		360°		360°
20	76.0	54,700	78.5	54,000						
25	73.5	54,700	76.0	54,000	78.0	49,400				
30	70.5	53,100	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	67.5	47,700	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	64.0	43,200	68.0	41,300	71.5	38,700	74.0	40,300	75.5	35,500
45	60.5	39,600	65.5	37,600	69.0	35,300	72.0	36,800	73.5	33,000
50	57.5	36,300	62.5	34,400	66.5	32,300	70.0	33,700	71.5	30,000
55	53.5	33,500	59.5	31,700	64.0	29,700	68.0	31,000	69.5	27,300
60	50.0	31,000	56.5	29,300	61.5	27,400	65.5	28,600	67.5	24,900
65	46.0	26,900	53.5	26,400	59.0	25,400	63.5	24,900	65.5	22,800
70	41.5	23,500	50.0	23,000	56.0	22,500	61.0	21,600	63.5	21,000
75	36.5	20,700	46.5	20,200	53.0	19,700	58.5	18,800	61.0	18,400
80	30.5	18,200	42.5	17,900	50.0	17,300	56.0	16,700	59.0	16,200
85	23.5	16,200	38.5	15,900	47.0	15,400	53.0	14,700	56.5	14,200
90	12.5	14,400	34.0	14,100	43.5	13,700	50.5	12,900	54.0	12,500
95			28.5	12,500	40.0	12,100	47.5	11,300	51.5	10,900
100			22.0	11,100	36.0	10,700	44.5	10,000	49.0	9,500
105			12.0	9,900	32.0	9,400	41.5	8,800	46.0	8,300
110					27.0	8,300	38.0	7,600	43.5	7,300
115					21.0	7,300	34.5	6,600	40.5	6,300
120					11.5	6,400	30.5	5,700	37.0	5,300
125							26.0	4,900	33.5	4,500
130							20.0	4,200	29.5	3,800
135							11.0	3,500	25.0	3,100
140									19.5	2,500
145									10.5	1,900
Min.Bm. Ang. / Cap.	0.0	13,100	0.0	9,500	0.0	6,200	0.0	3,300	0.0	1,800
Radius (ft)	91.5		106.5		121.5		136.5		146.4	



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Rated Lifting Capacities In Pounds



Full

32,000 lb

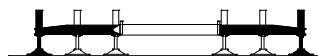


Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	68,700
12	66.0	232,400	72.0	77,300	76.5	68,700
15	61.5	185,800	69.0	77,300	74.0	68,700
20	53.0	137,300	63.0	77,300	69.5	68,700
25	43.0	107,100	56.5	77,300	65.0	68,700
30	29.5	86,700	50.0	77,300	60.5	68,700
35			42.0	73,700	55.5	68,700
40			32.5	58,100	49.5	60,500
45			17.5	47,100	43.5	49,600
50					37.0	41,400
55					28.5	35,200
60					15.5	30,200
Min.Bm. Ang. / Cap.	0.0	59,600	0.0	25,600	0.0	20,800
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft		129.6 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
15	76.5	64,900						
20	74.0	64,900	76.0	65,000	78.5	61,300		
25	70.0	64,900	73.5	65,000	76.0	61,300	78.0	47,200
30	66.5	64,900	70.5	65,000	74.0	61,300	76.0	47,200
35	62.5	64,900	67.5	65,000	71.5	61,300	73.5	45,500
40	58.5	60,800	64.5	60,100	68.5	57,400	71.5	40,800
45	54.5	50,000	61.0	49,400	65.5	48,100	69.0	36,800
50	49.5	41,900	57.5	41,300	62.5	40,100	66.5	33,300
55	45.0	35,700	53.5	35,200	59.5	34,200	64.0	30,300
60	39.5	30,800	49.5	30,300	56.5	29,200	61.5	27,600
65	33.0	26,700	45.5	26,300	53.5	25,100	59.0	24,300
70	25.5	23,300	41.0	22,900	50.0	21,800	56.0	21,000
75	14.0	20,400	36.0	20,100	46.5	19,000	53.0	18,200
80			30.5	17,600	42.5	16,800	50.0	16,000
85			23.5	15,600	38.5	14,800	47.0	14,000
90			12.5	13,800	34.0	12,900	43.5	12,300
95					28.5	11,400	40.0	10,700
100					22.0	10,000	36.0	9,300
105					12.0	8,700	31.5	8,100
110							26.5	7,000
115							20.5	6,000
120							10.0	5,100
Min.Bm. Ang. / Cap.	0.0	16,700	0.0	13,100	0.0	8,400	0.0	4,900
Radius (ft)	76.5		91.5		106.5		121.0	



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**Rated Lifting Capacities
In Pounds****Full****32,000 lb**

Load Radius (ft)	42.3 ft		56.4 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
9	71.0	280,000		
10	69.5	264,900	75.0	157,100
12	66.0	232,400	73.0	157,100
15	61.5	185,800	69.5	157,100
20	53.0	137,300	64.0	140,600
25	43.0	107,100	57.5	110,600
30	29.5	86,700	51.0	90,200
35			43.5	72,800
40			34.5	57,200
45			22.5	46,400
Min.Bm. Ang. / Cap.	0.0	59,600	0.0	41,600
Radius (ft)	33.7		47.8	

Load Radius (ft)	71.3 ft		87.1 ft		103.7 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
10	78.5	151,700				
12	77.0	144,800				
15	74.5	137,400	77.5	110,100		
20	70.0	118,300	74.0	106,500	77.0	80,700
25	65.5	103,700	70.5	93,500	74.5	77,100
30	61.0	91,300	67.0	83,200	71.5	67,900
35	56.0	74,100	63.5	73,700	68.5	60,500
40	50.5	58,700	59.5	58,300	65.5	54,300
45	45.0	47,900	55.5	47,600	62.5	46,400
50	38.0	39,800	51.0	39,700	59.0	38,500
55	30.5	33,700	46.0	33,700	55.5	32,500
60	19.5	28,700	41.0	28,700	51.5	27,500
65			35.5	24,600	48.0	23,600
70			28.5	21,200	43.5	20,300
75			19.5	18,400	39.5	17,500
80					34.5	15,200
85					28.5	13,200
90					21.0	11,400
95					6.5	9,800
Min.Bm. Ang. / Cap.	0.0	26,300	0.0	16,700	0.0	9,800
Radius (ft)	62.7		78.5		95.2	



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Rated Lifting Capacities In Pounds			31.0' Offset Fly						Full			32,000 lb		EM 1		360°	
			2°, 15°, 30°, 45°														
Load Radius (ft)	163' Boom								195.3' Boom								
	2°		15°		30°		45°		2°		15°		30°		45°		
35	79.0	14,400															
40	77.5	14,400															
45	76.5	14,400	78.5	14,500													
50	75.0	14,400	77.5	14,500					79.0	10,800							
55	74.0	14,400	76.0	14,500	78.0	14,200			78.0	10,800							
60	72.5	14,400	74.5	14,500	77.0	14,100	78.5	13,200	77.0	10,800	79.0	10,800					
65	71.5	14,400	73.5	14,500	75.5	14,000	77.0	13,100	76.0	10,800	78.0	10,800					
70	70.0	14,400	72.0	14,500	74.0	13,800	75.5	13,000	75.0	10,800	77.0	10,800	79.0	10,900			
75	68.5	14,400	71.0	14,500	72.5	13,700	74.5	13,000	74.0	10,800	76.0	10,800	77.5	10,900	79.5	11,100	
80	67.0	14,400	69.5	14,500	71.5	13,600	73.0	12,900	73.0	10,800	74.5	10,800	76.5	10,900	78.5	11,100	
85	65.5	13,400	67.5	13,600	70.0	13,500	71.5	12,800	72.0	10,800	73.5	10,800	75.5	10,900	77.0	11,100	
90	64.0	12,500	66.0	12,700	68.0	12,900	69.5	12,800	70.5	10,800	72.5	10,800	74.5	10,900	76.0	11,100	
95	62.0	11,600	64.0	11,800	66.5	12,000	68.0	12,200	69.5	10,800	71.5	10,800	73.5	10,900	75.0	11,100	
100	60.5	10,900	62.5	11,000	64.5	11,300	66.0	11,500	68.5	10,700	70.5	10,800	72.0	10,900	73.5	11,100	
105	58.5	10,100	60.5	10,300	62.5	10,500	64.0	10,700	66.5	9,400	68.5	10,200	71.0	10,800	72.5	11,100	
110	56.5	9,500	59.0	9,700	61.0	9,900	62.0	10,000	65.0	8,300	67.0	9,000	69.0	9,600	70.5	10,100	
115	54.5	8,900	57.0	9,100	59.0	9,200	60.0	9,400	63.5	7,300	65.5	8,000	67.5	8,500	69.0	9,000	
120	52.5	8,000	55.0	8,500	57.0	8,700	58.0	8,800	61.5	6,400	63.5	7,000	65.5	7,600	67.0	8,000	
125	50.5	7,200	52.5	7,600	54.5	8,000	56.0	8,200	60.0	5,600	62.0	6,100	64.0	6,700	65.0	7,000	
130	48.5	6,400	50.5	6,800	52.5	7,200	53.5	7,400	58.0	4,800	60.0	5,400	62.0	5,800	63.5	6,100	
135	46.0	5,800	48.5	6,100	50.0	6,400	51.0	6,600	56.5	4,200	58.5	4,600	60.0	5,100	61.5	5,400	
140	44.0	5,100	46.0	5,400	47.5	5,700	48.5	5,900	54.5	3,500	56.5	4,000	58.5	4,400	59.5	4,600	
145	41.5	4,500	43.5	4,800	45.0	5,100	46.0	5,200	53.0	2,900	55.0	3,300	56.5	3,700	57.5	3,900	
150	39.0	4,000	41.0	4,200	42.5	4,500			51.0	2,400	53.0	2,800	54.5	3,100	55.5	3,300	
155	36.0	3,500	38.0	3,700	39.5	3,900			49.0	1,900	51.0	2,200	52.5	2,600	53.5	2,700	
160	33.0	3,000	35.0	3,200	36.5	3,400			47.0	1,400	49.0	1,800	50.5	2,000	51.5	2,200	
165	30.0	2,600	32.0	2,800	33.0	2,900					47.0	1,300	48.5	1,600	49.0	1,700	
170	26.5	2,200	28.5	2,300											47.0	1,200	
175	22.5	1,800	24.0	1,900													
180	17.0	1,500	19.0	1,500													
Min.Bm. Ang./Cap.	8.0		12.5		12.0		10.5		45.5		46.0		46.5		46.5		
Radius (ft)	185.0		182.2		181.0		176.7		163.8		166.9		170.0		171.0		
Maximum Boom Length At 0° Boom Angle (ft)		160															



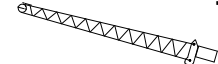
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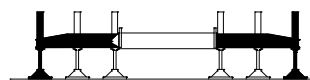
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Rated Lifting Capacities In Pounds

31.0' Offset Fly



2°, 15°, 30°, 45°



Full

32,000 lb



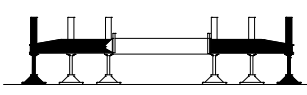
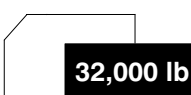
Load Radius (ft)	151' Boom								180.3 Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
35	78.5	17,100														
40	77.0	17,100														
45	75.5	17,100	78.0	17,000					79.0	13,500						
50	74.5	17,100	76.5	16,800	79.0	15,200			78.0	13,500						
55	73.0	17,100	75.0	16,600	77.5	15,000	79.0	13,900	77.0	13,500	79.0	13,600				
60	71.5	17,100	73.5	16,300	76.0	14,800	77.5	13,700	76.0	13,500	78.0	13,600				
65	70.0	17,100	72.0	16,100	74.0	14,600	76.0	13,600	74.5	13,500	76.5	13,600	79.0	13,600		
70	68.5	17,100	70.5	15,900	72.5	14,400	74.5	13,500	73.5	13,500	75.5	13,600	77.5	13,400	79.0	12,700
75	67.0	16,300	69.0	15,700	71.0	14,300	72.5	13,400	72.5	13,500	74.5	13,600	76.5	13,300	78.0	12,600
80	65.0	15,200	67.5	15,300	69.5	14,100	71.0	13,300	71.5	13,500	73.5	13,600	75.0	13,200	76.5	12,600
85	63.5	14,100	65.5	14,300	68.0	14,000	69.5	13,200	70.0	13,500	72.0	13,600	74.0	13,100	75.5	12,500
90	61.5	13,200	64.0	13,400	66.0	13,600	67.5	13,200	68.5	13,300	70.5	13,600	72.5	13,000	74.0	12,500
95	59.5	12,300	62.0	12,500	64.0	12,700	65.5	12,900	67.0	12,200	69.0	12,700	71.0	12,900	72.5	12,500
100	57.5	11,600	60.0	11,700	62.0	11,900	63.5	12,100	65.5	10,800	67.5	11,500	69.5	12,200	71.0	12,400
105	55.5	10,800	58.0	11,000	60.0	11,200	61.5	11,300	63.5	9,500	65.5	10,200	68.0	10,900	69.5	11,400
110	53.5	10,000	56.0	10,300	58.0	10,500	59.5	10,600	61.5	8,400	64.0	9,100	66.0	9,700	67.5	10,100
115	51.5	9,000	53.5	9,500	55.5	9,800	57.0	10,000	60.0	7,400	62.0	8,000	64.0	8,600	65.5	9,000
120	49.0	8,100	51.5	8,500	53.5	8,900	54.5	9,100	58.0	6,500	60.0	7,100	62.0	7,600	63.5	7,900
125	46.5	7,200	49.0	7,600	51.0	8,000	52.0	8,200	56.0	5,700	58.5	6,200	60.0	6,700	61.5	7,000
130	44.0	6,500	46.5	6,800	48.5	7,200	49.5	7,300	54.5	4,900	56.5	5,400	58.0	5,800	59.5	6,100
135	41.5	5,800	44.0	6,100	45.5	6,400	46.5	6,500	52.5	4,200	54.5	4,700	56.0	5,100	57.5	5,300
140	39.0	5,100	41.0	5,400	43.0	5,700			50.5	3,600	52.5	4,000	54.0	4,400	55.5	4,600
145	36.0	4,600	38.0	4,800	40.0	5,000			48.5	3,000	50.5	3,400	52.0	3,700	53.0	3,900
150	33.0	4,000	35.0	4,200	36.5	4,400			46.5	2,500	48.5	2,800	50.0	3,100	51.0	3,300
155	29.5	3,500	31.5	3,700	33.0	3,800			44.0	2,000	46.0	2,300	47.5	2,600	48.5	2,700
160	25.5	3,100	27.5	3,200					42.0	1,500	44.0	1,800	45.5	2,000	46.0	2,100
165	21.0	2,600	23.0	2,700							41.5	1,300	43.0	1,600		
170	15.0	2,200	16.5	2,300												
Min.Bm. Ang./Cap.	0.0	2,000	0.0	2,100	0.0	2,100	0.0	2,200	39.5		40.5		40.0		40.5	
Radius (ft)	173.4		173.0		171.0		167.3		165.0		167.5		170.0		170.0	
Maximum Boom Length At 0° Boom Angle (ft)		158														



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Rated Lifting Capacities In Pounds			31.0' Offset Fly 						 Full			 32,000 lb				 360°	
Load Radius (ft)	125.7' Boom								155' Boom								
	2°		15°		30°		45°		2°		15°		30°		45°		
30	78.0	27,900															
35	76.5	26,900	78.5	20,200													
40	75.0	26,000	77.0	19,700					78.5	18,900							
45	73.0	25,100	75.0	19,200	77.5	16,700			77.5	18,900	79.5	17,700					
50	71.0	24,200	73.5	18,700	76.0	16,300	78.0	14,700	76.0	18,900	78.0	17,400					
55	69.5	23,300	71.5	18,300	74.0	16,000	76.0	14,500	74.5	18,900	76.5	17,100	78.5	15,200			
60	67.5	22,300	69.5	17,800	72.0	15,700	74.0	14,300	73.0	18,800	75.0	16,800	77.0	15,000	79.0	13,800	
65	65.5	19,800	67.5	17,400	70.0	15,400	72.0	14,100	72.0	18,500	73.5	16,500	75.5	14,800	77.5	13,700	
70	63.5	19,300	65.5	17,000	68.0	15,100	70.0	14,000	70.5	18,100	72.0	16,200	74.0	14,600	76.0	13,600	
75	61.5	18,100	63.5	16,600	66.0	14,900	68.0	13,900	68.5	17,300	70.5	16,000	72.5	14,400	74.0	13,500	
80	59.0	16,900	61.5	16,200	64.0	14,600	65.5	13,800	67.0	16,000	69.0	15,700	71.0	14,200	72.5	13,400	
85	57.0	15,800	59.5	15,800	62.0	14,400	63.5	13,700	65.0	14,800	67.5	15,200	69.5	14,100	71.0	13,300	
90	54.5	14,700	57.0	14,800	59.5	14,200	61.0	13,600	63.0	13,000	65.5	13,900	68.0	13,900	69.5	13,200	
95	52.0	13,200	55.0	13,800	57.0	14,000	58.5	13,600	61.0	11,500	63.5	12,300	66.0	13,100	67.5	13,200	
100	49.5	11,800	52.0	12,400	54.5	12,900	56.0	13,300	59.0	10,100	61.5	10,800	64.0	11,500	65.5	12,100	
105	47.0	10,600	49.5	11,100	52.0	11,600	53.0	11,800	57.0	8,800	59.5	9,500	61.5	10,200	63.5	10,600	
110	44.0	9,400	46.5	9,900	49.0	10,300	50.0	10,600	55.0	7,700	57.5	8,400	59.5	9,000	61.0	9,400	
115	41.0	8,400	43.5	8,900	45.5	9,200	46.5	9,400	53.0	6,700	55.0	7,300	57.5	7,900	58.5	8,200	
120	38.0	7,500	40.5	7,900	42.5	8,200			51.0	5,800	53.0	6,400	55.0	6,900	56.5	7,200	
125	34.5	6,700	37.0	7,000	39.0	7,300			48.5	5,000	50.5	5,500	52.5	5,900	54.0	6,200	
130	31.0	6,000	33.5	6,200	35.0	6,400			46.0	4,300	48.5	4,700	50.5	5,100	51.5	5,300	
135	26.5	5,300	29.0	5,500	30.0	5,600			44.0	3,600	46.0	4,000	47.5	4,300	48.5	4,500	
140	21.5	4,600	24.0	4,800					41.0	3,000	43.5	3,300	45.0	3,600	46.0	3,800	
145	14.5	4,100	16.5	4,200					38.5	2,400	40.5	2,700	42.5	3,000			
150									35.5	1,900	38.0	2,100	39.0	2,400			
155									32.5	1,400	34.5	1,600	36.0	1,800			
160													32.5	1,200			
Min.Bm. Ang./Cap.	0.0	3,800	0.0	3,800	0.0	3,900	0.0	4,100	31.5		31.0		31.5		31.5		
Radius (ft)	148.1		147.8		145.9		142.3		156.9		159.7		161.0		160.2		
Maximum Boom Length At 0° Boom Angle (ft)		143															



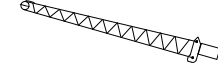
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

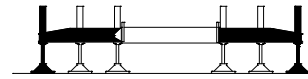
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Rated Lifting Capacities In Pounds

55.0' Offset Fly



2°, 15°, 30°, 45°



Full

32,000 lb


Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
40	79.5	10,600														
45	78.0	10,600														
50	77.0	10,600														
55	76.0	10,600							79.5	8,300						
60	75.0	10,600	78.5	9,700					78.5	8,300						
65	74.0	10,600	77.0	9,600					78.0	8,300						
70	73.0	10,600	76.0	9,400	79.0	8,400			77.0	8,300						
75	71.5	10,400	74.5	9,300	78.0	8,200			76.0	8,300	79.0	8,400				
80	70.5	10,200	73.5	9,100	76.5	8,100			75.0	8,300	78.0	8,300				
85	69.0	10,100	72.0	9,000	75.5	8,000	78.0	7,400	74.0	8,300	77.0	8,200				
90	68.0	9,900	71.0	8,800	74.0	7,900	76.5	7,300	73.5	8,300	76.0	8,200	79.0	7,400		
95	66.5	9,700	69.5	8,700	72.5	7,800	75.5	7,200	72.5	8,300	75.0	8,100	78.0	7,300		
100	65.5	9,500	68.5	8,500	71.5	7,700	74.0	7,200	71.5	8,300	74.0	8,000	77.0	7,300	79.0	6,800
105	64.0	9,300	67.0	8,400	70.0	7,600	72.5	7,100	70.5	8,300	73.0	7,900	75.5	7,200	78.0	6,800
110	62.5	8,700	65.5	8,300	68.5	7,500	71.0	7,100	69.5	8,300	72.0	7,800	74.5	7,100	77.0	6,800
115	61.0	8,100	64.0	8,200	67.0	7,400	69.5	7,000	68.0	8,100	71.0	7,700	73.5	7,100	75.5	6,700
120	59.0	7,600	62.5	7,900	65.5	7,400	68.0	7,000	66.5	7,200	70.0	7,600	72.5	7,000	74.5	6,700
125	57.5	7,100	61.0	7,400	64.0	7,300	66.5	7,000	65.0	6,300	68.5	7,300	71.5	7,000	73.5	6,700
130	56.0	6,600	59.5	6,900	62.5	7,100	64.5	6,900	63.5	5,500	67.0	6,400	70.0	6,900	72.0	6,700
135	54.0	6,200	57.5	6,400	60.5	6,700	63.0	6,900	62.0	4,800	65.5	5,700	68.5	6,500	71.0	6,600
140	52.5	5,800	55.5	6,000	59.0	6,200	61.0	6,400	60.5	4,200	63.5	5,000	67.0	5,800	69.5	6,300
145	50.5	5,200	54.0	5,600	57.0	5,800	59.0	6,000	59.0	3,600	62.0	4,300	65.5	5,100	67.5	5,600
150	48.5	4,600	52.0	5,200	55.0	5,400	57.0	5,600	57.5	3,000	60.5	3,700	63.5	4,400	66.0	4,900
155	46.5	4,100	50.0	4,600	53.0	5,100	54.5	5,200	55.5	2,500	59.0	3,200	62.0	3,800	64.0	4,200
160	44.5	3,600	47.5	4,100	50.5	4,500	52.0	4,700	54.0	2,100	57.5	2,700	60.0	3,300	62.0	3,600
165	42.0	3,200	45.5	3,600	48.0	4,000	49.5	4,100	52.5	1,600	55.5	2,200	58.5	2,700	60.5	3,100
170	40.0	2,800	43.0	3,200	45.5	3,500	47.0	3,600	51.0	1,200	54.0	1,700	56.5	2,200	58.5	2,500
175	37.5	2,400	40.5	2,700	43.0	3,000					52.5	1,300	55.0	1,800	56.5	2,000
180	35.0	2,000	38.0	2,300	40.5	2,600							53.0	1,300	54.5	1,600
185	32.5	1,700	35.5	2,000	37.5	2,100										
190	29.5	1,400	32.5	1,600	34.0	1,700										
195			29.0	1,300	30.0	1,300										
Min.Bm. Ang./Cap.	26.5		27.0		28.0		33.0		50.5		51.5		52.5		52.5	
Radius (ft)	195.0		197.5		197.5		190.0		171.3		177.5		182.5		185.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		155														



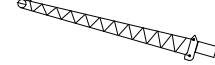
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

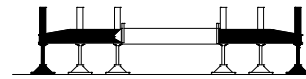
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Rated Lifting Capacities In Pounds

55.0' Offset Fly



2°, 15°, 30°, 45°



Full

32,000 lb



Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
45	78.0	12,400														
50	76.5	12,200														
55	75.5	12,000	79.0	10,500					79.5	10,100						
60	74.0	11,700	77.5	10,300					78.5	10,100						
65	73.0	11,500	76.0	10,100					78.0	10,100						
70	71.5	11,300	75.0	9,900	78.5	8,600			77.0	10,100						
75	70.5	11,000	73.5	9,700	76.0				76.0	10,100	78.5	9,200				
80	69.0	10,800	72.0	9,500	75.5	8,300	78.5	7,600	75.0	10,100	77.5	9,100				
85	67.5	10,600	71.0	9,300	75.0	8,200	77.0	7,500	74.0	10,000	76.5	8,900	79.5	8,000		
90	66.0	10,300	69.5	9,100	74.0	8,000	76.0	7,400	72.5	9,800	75.5	8,800	78.5	7,900		
95	65.0	10,100	68.0	8,900	73.0	7,800	75.0	7,200	72.0	9,700	74.5	8,700	77.5	7,800		
100	63.5	9,900	66.5	8,800	72.0	7,600	74.0	7,000	71.5	9,600	73.0	8,500	76.0	7,700	78.5	7,100
105	62.0	9,700	65.0	8,600	71.0	7,400	73.0	6,800	69.5	9,400	72.0	8,400	75.0	7,600	77.5	7,100
110	60.0	9,300	63.5	8,500	70.0	7,200	72.0	6,600	68.0	9,300	71.0	8,300	73.5	7,500	76.0	7,000
115	58.5	8,700	62.0	8,300	69.0	7,000	71.0	6,400	67.0	9,100	69.5	8,200	72.5	7,400	75.0	7,000
120	56.5	8,200	60.0	8,200	68.0	6,800	70.0	6,200	65.5	8,200	68.5	8,100	71.0	7,400	73.5	7,000
125	55.0	7,700	58.5	7,900	66.5	6,600	68.5	6,000	64.0	7,300	67.0	8,000	70.0	7,300	72.0	6,900
130	53.0	7,200	56.5	7,400	65.0	6,400	67.0	5,800	62.0	6,500	65.5	7,400	68.5	7,200	71.0	6,900
135	51.0	6,600	54.5	7,000	63.5	6,000	65.5	5,400	60.5	5,700	64.0	6,600	67.5	7,200	69.5	6,900
140	49.0	5,900	52.5	6,500	62.0	5,600	64.0	5,000	59.0	5,000	62.5	5,800	65.5	6,600	68.0	6,800
145	47.0	5,300	50.5	5,800	61.0	5,000	63.0	4,400	57.0	4,400	60.5	5,100	64.0	5,800	66.0	6,300
150	44.5	4,800	48.0	5,200	60.0	4,600	62.0	3,800	55.5	3,800	59.0	4,500	62.0	5,100	64.5	5,600
155	42.5	4,200	46.0	4,700	58.0	4,200	60.0	3,200	54.0	3,200	57.0	3,900	60.0	4,500	62.5	4,900
160	40.0	3,800	43.5	4,200	56.0	3,800	58.0	2,600	52.0	2,700	55.5	3,300	58.5	3,900	60.5	4,300
165	37.5	3,300	41.0	3,700	54.0	3,400	56.0	2,000	50.5	2,200	53.5	2,800	56.5	3,300	58.0	3,600
170	35.0	2,900	38.0	3,200	52.0	3,000	54.0	1,400	48.5	1,800	51.5	2,300	54.5	2,800	56.0	3,100
175	32.0	2,500	35.0	2,800	50.0	2,600	52.0	800	46.5	1,400	49.5	1,900	52.5	2,300	54.0	2,500
180	29.0	2,200	32.0	2,400	48.0	2,200	50.0	400			48.0	1,400	50.5	1,800	51.5	2,000
185	25.0	1,800	28.0	2,000	46.0	1,800	48.0	0					48.5	1,400	49.5	1,500
190	21.0	1,500	23.5	1,600	44.0	1,400	46.0	0								
Min.Bm. Ang./Cap.	14.5		16.5		15.0		12.0		45.5		46.5		46.5		47.0	
Radius (ft)	195.0		195.0		190.6		187.0		173.8		178.8		183.8		185.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		147														



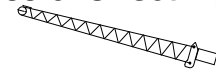
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

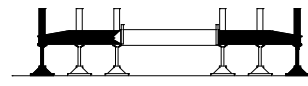
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Rated Lifting Capacities In Pounds

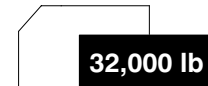
55.0' Offset Fly



2°, 15°, 30°, 45°



Full



32,000 lb



Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
35	78.5	15,200														
40	77.0	14,800														
45	75.5	14,300	79.5	12,000					79.0	13,100						
50	74.0	13,800	78.0	11,600					78.0	12,800						
55	72.5	13,400	76.0	11,300					76.5	12,500						
60	71.0	12,900	74.5	10,900	78.5	9,300			75.5	12,200	78.5	10,500				
65	69.5	12,500	73.0	10,600	77.0	9,100			74.0	11,900	77.5	10,300				
70	67.5	12,100	71.5	10,300	75.5	8,900	79.0	8,000	73.0	11,600	76.0	10,000	79.5	8,700		
75	66.0	11,700	70.0	10,000	73.5	8,700	77.0	7,900	71.5	11,400	74.5	9,800	78.0	8,500		
80	64.5	11,300	68.0	9,800	72.0	8,500	75.0	7,800	70.0	11,100	73.5	9,600	76.5	8,400	79.5	7,600
85	62.5	10,900	66.5	9,500	70.0	8,400	73.5	7,700	69.0	10,800	72.0	9,400	75.5	8,300	78.0	7,500
90	61.0	10,600	64.5	9,300	68.5	8,200	71.5	7,600	67.5	10,600	70.5	9,200	74.0	8,100	76.5	7,500
95	59.0	10,300	62.5	9,100	66.5	8,100	69.5	7,500	66.0	10,300	69.0	9,000	72.5	8,000	75.0	7,400
100	57.0	10,000	61.0	8,800	64.5	8,000	67.5	7,400	64.5	10,100	68.0	8,900	71.0	7,900	73.5	7,300
105	55.5	9,700	59.0	8,700	62.5	7,800	65.5	7,400	63.0	9,800	66.5	8,700	69.5	7,800	72.0	7,300
110	53.5	9,400	57.0	8,500	60.5	7,700	63.0	7,300	61.5	8,800	65.0	8,500	68.0	7,700	70.5	7,200
115	51.5	9,200	55.0	8,300	58.5	7,600	61.0	7,300	59.5	7,800	63.5	8,400	66.5	7,600	69.0	7,200
120	49.0	8,600	53.0	8,100	56.5	7,600	58.5	7,200	58.0	6,900	61.5	7,900	65.0	7,500	67.0	7,200
125	46.5	7,800	50.5	8,000	54.0	7,500	56.0	7,200	56.0	6,100	59.5	7,000	63.0	7,500	65.5	7,100
130	44.0	7,000	48.0	7,600	51.5	7,400	53.5	7,200	54.0	5,300	58.0	6,100	61.5	6,900	63.5	7,100
135	41.5	6,300	45.5	6,900	49.0	7,400	50.5	7,200	52.0	4,600	56.0	5,400	59.0	6,100	61.5	6,600
140	39.0	5,700	43.0	6,200	46.0	6,600	47.5	6,800	50.5	4,000	54.0	4,700	57.0	5,300	59.5	5,800
145	36.0	5,100	40.0	5,500	42.5	5,900			48.0	3,400	51.5	4,000	55.0	4,600	57.0	5,000
150	33.0	4,500	36.5	4,900	39.0	5,200			46.0	2,800	49.5	3,400	52.5	4,000	54.5	4,300
155	29.5	4,000	33.0	4,300	35.0	4,500			44.0	2,300	47.5	2,900	50.5	3,400	52.0	3,600
160	25.5	3,500	29.0	3,800	30.5	3,900			42.0	1,800	45.0	2,300	48.0	2,800	49.5	3,000
165	20.5	3,100	24.0	3,300					39.5	1,400	43.0	1,900	45.5	2,200	46.5	2,400
170	13.5	2,700	16.0	2,800							40.5	1,400	43.0	1,700		
175													40.0	1,200		
Min.Bm. Ang./Cap.	0.0	2,100	0.0	2,200	0.0	2,400	0.0	2,800	38.0		38.5		39.5		39.5	
Radius (ft)	172.1		171.4		168.1		162.4		168.8		173.8		176.3		176.0	
Maximum Boom Length At 0° Boom Angle (ft)		137														



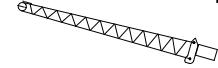
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

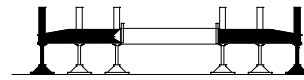
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Rated Lifting Capacities In Pounds

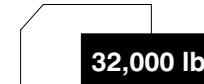
73.0' Offset Fly



2°, 15°, 30°, 45°



Full



32,000 lb



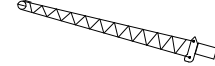
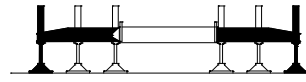
Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
55	79.0	8,800														
60	78.0	8,800														
65	77.0	8,800							79.0	6,700						
70	76.0	8,800	78.5	8,800					78.0	6,700						
75	75.0	8,800	77.5	8,700					77.0	6,700						
80	74.0	8,800	76.5	8,600					76.5	6,700						
85	73.0	8,800	75.5	8,500	78.5	7,700			75.5	6,700	78.0	6,800				
90	72.0	8,800	74.5	8,400	77.5	7,600			74.5	6,700	77.0	6,800				
95	70.5	8,800	73.0	8,300	76.0	7,500	78.5	6,800	74.0	6,700	76.5	6,800				
100	69.5	8,800	72.0	8,200	75.0	7,400	77.5	6,600	73.0	6,700	75.5	6,800	78.5	6,900		
105	68.5	8,600	71.0	8,100	73.5	7,200	76.0	6,500	72.0	6,700	74.5	6,800	77.5	6,900		
110	67.0	8,000	69.5	8,000	72.5	7,000	74.5	6,300	71.5	6,700	73.5	6,800	76.5	6,800	78.5	6,200
115	65.5	7,500	68.5	7,700	71.0	6,800	73.5	6,100	70.5	6,700	72.5	6,800	75.5	6,800	77.5	6,100
120	64.0	6,900	67.0	7,200	69.5	6,600	72.0	6,000	69.0	6,200	71.5	6,600	74.5	6,700	76.5	6,000
125	62.5	6,500	65.5	6,700	68.5	6,400	70.5	5,900	67.5	5,600	70.5	6,000	73.5	6,500	75.0	5,800
130	61.0	6,000	64.0	6,200	67.0	6,200	69.0	5,700	66.5	5,000	69.0	5,400	72.0	6,000	74.0	5,700
135	59.5	5,600	62.5	5,800	65.5	6,100	67.5	5,600	65.0	4,500	67.5	4,900	70.5	5,400	73.0	5,600
140	58.0	5,200	60.5	5,400	64.0	5,700	66.0	5,500	63.5	4,000	66.5	4,400	69.5	4,900	71.5	5,300
145	56.5	4,800	59.0	5,000	62.0	5,300	64.5	5,400	62.5	3,400	65.0	4,000	68.0	4,400	70.0	4,800
150	55.0	4,400	57.5	4,600	60.5	4,900	62.5	5,100	61.0	2,800	63.5	3,500	66.5	3,900	68.5	4,300
155	53.0	3,900	56.0	4,300	59.0	4,500	61.0	4,700	59.5	2,300	62.0	2,900	65.0	3,500	67.0	3,800
160	51.0	3,400	54.0	3,900	57.0	4,200	59.0	4,300	58.0	1,800	60.5	2,400	63.5	3,100	65.5	3,400
165	49.5	3,000	52.0	3,400	55.0	3,900	57.0	4,000	56.5	1,400	59.0	1,900	62.0	2,600	64.0	3,000
170	47.5	2,500	50.0	2,900	53.0	3,400	55.0	3,600			57.5	1,500	60.5	2,100	62.5	2,500
175	45.5	2,100	48.0	2,500	51.0	2,900	52.5	3,100					59.0	1,600	60.5	2,000
180	43.5	1,800	46.0	2,100	49.0	2,500	50.0	2,700					57.0	1,200	59.0	1,500
185	41.5	1,400	44.0	1,700	46.5	2,100	48.0	2,200								
190			42.0	1,400	44.5	1,700	45.0	1,800								
195					42.0	1,300										
Min.Bm. Ang./Cap.	39.5		39.5		41.0		40.5		55.5		56.0		56.5		57.5	
Radius (ft)	190.0		195.0		197.5		198.8		168.8		174.6		181.3		185.0	
Maximum Main Boom Length At 0° Boom Angle (ft)	142															



PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
73.0' Offset Fly

2°, 15°, 30°, 45°

Full
32,000 lb


Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
50	79.0	10,400														
55	78.0	10,400														
60	77.0	10,400							79.0	8,200						
65	76.0	10,400	78.5	9,500					78.0	8,200						
70	75.0	10,300	77.5	9,400					77.0	8,200						
75	73.5	10,200	76.0	9,300					76.0	8,200	78.5	8,300				
80	72.5	10,000	75.0	9,100	78.5	8,100			75.5	8,200	78.0	8,300				
85	71.5	9,900	74.0	9,000	77.0	8,000			74.5	8,200	77.0	8,300				
90	70.0	9,700	72.5	8,800	76.0	7,900	78.5	7,100	73.5	8,200	76.0	8,200	78.5	7,500		
95	69.0	9,600	71.5	8,700	74.5	7,700	77.0	6,900	72.5	8,200	75.0	8,100	77.5	7,400		
100	67.5	9,400	70.0	8,600	73.0	7,500	75.5	6,700	71.5	8,200	74.0	8,100	76.5	7,400	79.0	6,700
105	66.5	9,300	68.5	8,300	71.5	7,200	74.0	6,500	70.5	8,200	73.0	8,000	75.5	7,300	78.0	6,500
110	65.0	8,700	67.5	8,000	70.5	7,000	72.5	6,400	69.5	8,200	72.0	7,900	74.5	7,100	76.5	6,400
115	63.5	8,100	66.0	7,700	69.0	6,800	71.0	6,200	68.5	8,100	71.0	7,800	73.5	6,900	75.5	6,200
120	61.5	7,600	64.5	7,500	67.5	6,600	69.5	6,000	67.0	7,200	69.5	7,700	72.0	6,700	74.0	6,100
125	60.0	7,100	63.0	7,200	66.0	6,400	68.0	5,900	65.5	6,400	68.5	7,200	71.0	6,500	73.0	5,900
130	58.5	6,600	61.5	6,800	64.5	6,200	66.5	5,800	64.0	5,600	67.0	6,400	69.5	6,400	71.5	5,800
135	57.0	6,200	59.5	6,300	62.5	6,100	65.0	5,700	62.5	4,900	65.0	5,600	68.5	6,200	70.5	5,700
140	55.0	5,700	58.0	5,900	61.0	5,900	63.0	5,600	61.0	4,200	63.5	4,900	67.0	5,700	69.0	5,600
145	53.5	5,200	56.0	5,500	59.5	5,800	61.5	5,500	59.5	3,600	62.0	4,300	65.5	5,000	67.5	5,500
150	51.5	4,600	54.5	5,100	57.5	5,400	59.5	5,400	58.0	3,000	60.5	3,700	63.5	4,400	66.0	4,900
155	49.5	4,100	52.5	4,500	55.5	5,000	57.5	5,200	56.0	2,500	59.0	3,100	62.0	3,800	64.5	4,300
160	47.5	3,600	50.5	4,000	53.5	4,500	55.5	4,800	54.5	2,000	57.5	2,600	60.5	3,200	62.5	3,700
165	45.5	3,100	48.5	3,500	51.0	3,900	53.0	4,200	53.0	1,600	55.5	2,100	58.5	2,700	60.5	3,100
170	43.5	2,700	46.0	3,100	49.0	3,400	50.5	3,600			54.0	1,700	57.0	2,200	59.0	2,600
175	41.0	2,300	44.0	2,600	46.5	3,000	48.0	3,100			52.5	1,200	55.0	1,700	57.0	2,100
180	39.0	1,900	41.5	2,200	44.0	2,500	45.0	2,600					53.5	1,300	55.0	1,600
185	36.5	1,600	39.0	1,900	41.5	2,100										
190	34.0	1,300	36.5	1,500	38.5	1,700										
195			33.5	1,200	35.5	1,300										
Min.Bm. Ang./Cap.	32.5		33.0		33.0		33.0		51.5		52.0		52.5		53.0	
Radius (ft)	193.3		196.3		198.3		197.0		170.0		176.3		182.5		185.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		138														



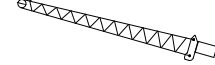
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

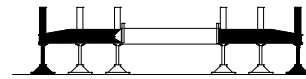
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Rated Lifting Capacities In Pounds

73.0' Offset Fly



2°, 15°, 30°, 45°



Full

32,000 lb



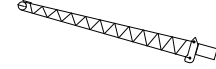
Load Radius (ft)	125.7' Boom								155' Boom									
	2°		15°		30°		45°		2°		15°		30°		45°			
40	79.0	13,300							79.0	11,200								
45	78.0	13,000																
50	76.5	12,800																
55	75.5	12,500	78.5	11,000					78.0	11,200								
60	74.0	12,200	77.0	10,800					77.0	11,100								
65	72.5	11,900	75.5	10,500					79.0	9,100							76.0	10,900
70	71.0	11,600	74.0	10,200	77.5	8,900			75.0	10,800	77.5	9,700	79.5	8,400				
75	70.0	11,300	72.5	10,000	76.5	8,700			73.5	10,600	76.0	9,500					78.0	8,300
80	68.5	11,000	71.0	9,800	75.0	8,500			78.0	7,700	72.5	10,400					75.0	9,400
85	67.0	10,700	69.5	9,600	73.5	8,400	76.5	7,600	71.5	10,200	74.0	9,200	75.5	8,000	77.0	7,100		
90	65.5	10,500	68.0	9,300	71.5	8,100	74.5	7,300	70.0	10,100	72.5	9,100	73.0	7,700	74.0	6,700		
95	63.5	10,000	66.5	8,900	70.0	7,800	73.0	7,100	69.0	9,900	71.5	8,900	70.5	7,200	72.5	6,600		
100	62.0	9,500	65.0	8,500	68.5	7,500	71.0	6,900	67.5	9,700	70.0	8,800	69.0	8,600	71.5	7,500		
105	60.5	9,100	63.5	8,200	66.5	7,200	69.5	6,700	66.5	9,500	69.0	8,600	67.5	7,700	68.5	6,100		
110	58.5	8,700	61.5	7,800	65.0	7,000	67.5	6,500	65.0	8,900	67.5	8,300	66.0	6,600	65.0	5,800		
115	57.0	8,300	60.0	7,600	63.0	6,800	65.5	6,300	63.5	7,900	66.0	8,000	61.0	5,400	63.5	5,700		
120	55.0	8,000	58.0	7,300	61.5	6,600	64.0	6,200	61.5	7,000	64.5	7,700	60.0	6,000	59.5	4,500		
125	53.5	7,700	56.0	7,000	59.5	6,400	62.0	6,000	60.0	6,100	63.0	6,900	58.0	5,000	57.5	3,900		
130	51.5	7,000	54.0	6,800	57.5	6,200	59.5	5,900	58.5	5,300	61.5	6,100	56.0	4,800	55.5	3,200		
135	49.0	6,300	52.0	6,600	55.5	6,000	57.5	5,800	56.5	4,600	59.5	5,300	54.0	4,400	53.0	2,700		
140	47.0	5,700	50.0	6,200	53.5	5,900	55.5	5,700	55.0	4,000	58.0	4,600	52.5	4,000	51.0	2,100		
145	44.5	5,100	48.0	5,500	51.0	5,800	53.0	5,600	53.0	3,400	56.0	4,000	50.5	3,600	48.5	1,600		
150	42.5	4,500	45.5	4,900	48.5	5,400	50.5	5,500	51.5	2,800	54.0	3,400	48.5	3,000	46.5	1,400		
155	40.0	4,000	43.0	4,400	46.0	4,800	47.5	5,000	49.5	2,300	52.5	2,800	46.5	2,000	44.5	1,300		
160	37.0	3,500	40.0	3,800	43.0	4,200			48.0	1,800	50.5	2,300	44.5	1,700	42.5	1,500		
165	34.5	3,000	37.5	3,300	40.0	3,600			46.0	1,400	48.5	1,800	42.5	1,900	40.0	1,300		
170	31.5	2,600	34.0	2,900	36.5	3,100					46.5	1,400	40.0	2,200	31.5	2,600		
175	28.0	2,200	30.5	2,500	32.5	2,600							37.5	2,000	28.0	2,200		
180	24.0	1,900	26.5	2,000									34.0	1,700	24.0	1,900		
185	19.0	1,500	21.5	1,700									30.5	1,500	19.0	1,500		
190	8.5	1,300											26.5	1,300	8.5	1,300		
Min.Bm. Ang./Cap.	0.0	1,300	0.0	1,300	0.0	1,400	0.0	1,500	45.0		45.5		46.0		46.0			
Radius (ft)	190.1		189.2		185.6		179.5		167.5		173.0		178.0		180.0			
Maximum Main Boom Length At 0° Boom Angle (ft)		127																



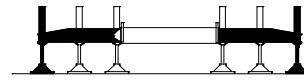
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds****91.0' Offset Fly**

2°, 15°, 30°, 45°

**Full**

32,000 lb



Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
60	79.0	6,800														
65	78.0	6,800														
70	77.5	6,800														
75	76.5	6,800	79.0	6,800					78.5	5,200						
80	75.5	6,800	78.0	6,800					77.5	5,200						
85	74.5	6,800	77.0	6,800					77.0	5,200						
90	73.5	6,800	76.0	6,800	79.0	6,200			76.0	5,200	78.5	5,200				
95	73.0	6,800	75.0	6,700	78.0	5,900			75.5	5,200	77.5	5,200				
100	72.0	6,800	74.0	6,400	76.5	5,700			79.0	5,200	74.5	5,200				
105	70.5	6,700	73.0	6,100	75.5	5,500	78.0	5,000	74.0	5,200	76.0	5,200	79.0	5,300		
110	69.5	6,500	71.5	5,900	74.5	5,200	76.5	4,800	73.0	5,200	75.5	5,200	78.0	5,200		
115	68.5	6,200	70.5	5,600	73.0	5,000	75.5	4,700	72.5	5,200	74.5	5,200	77.0	5,000		
120	67.0	5,900	69.5	5,400	72.0	4,800	74.0	4,500	71.5	5,200	73.5	5,200	76.0	4,900	78.0	4,400
125	66.0	5,600	68.0	5,200	70.5	4,700	73.0	4,300	70.5	4,800	73.0	5,200	75.0	4,700	77.0	4,300
130	64.5	5,100	67.0	5,000	69.5	4,500	71.5	4,200	69.0	4,300	71.5	4,800	74.0	4,500	76.0	4,200
135	63.0	4,700	65.5	4,800	68.0	4,300	70.0	4,100	68.0	3,800	70.5	4,300	73.0	4,400	75.0	4,000
140	61.5	4,400	64.5	4,600	67.0	4,200	69.0	3,900	66.5	3,300	69.0	3,800	72.0	4,200	73.5	3,900
145	60.5	4,000	63.0	4,300	65.5	4,000	67.5	3,800	65.0	2,700	68.0	3,300	70.5	3,800	72.5	3,800
150	59.0	3,700	61.5	3,900	64.0	3,900	66.0	3,700	64.0	2,100	66.5	2,800	69.5	3,400	71.5	3,700
155	57.5	3,200	60.0	3,600	63.0	3,800	64.5	3,600	62.5	1,600	65.0	2,300	68.0	3,000	70.0	3,300
160	55.5	2,700	58.5	3,200	61.5	3,500	63.0	3,500			63.5	1,800	66.5	2,500	69.0	2,900
165	54.0	2,200	56.5	2,700	59.5	3,200	61.5	3,400					65.0	2,000	67.5	2,500
170	52.5	1,800	55.0	2,300	58.0	2,800	60.0	3,100					63.5	1,500	66.0	2,000
175	50.5	1,400	53.0	1,800	56.0	2,300	58.0	2,600							64.5	1,500
180			51.5	1,400	54.5	1,900	56.0	2,200								
185					52.5	1,500	54.0	1,700								
190							52.0	1,300								
Min.Bm. Ang./Cap.	49.5		50.0		50.5		51.0		61.5		62.0		62.5		63.5	
Radius (ft)	178.8		185.0		190.0		192.5		159.1		165.0		174.0		179.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		122														



PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

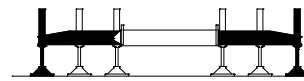
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Rated Lifting Capacities In Pounds

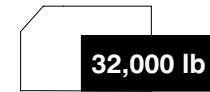
91.0' Offset Fly



2°, 15°, 30°, 45°



Full



32,000 lb



Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
55	79.0	8,000							79.0	6,300						
60	78.5	8,000														
65	77.5	8,000														
70	76.5	8,000	79.0	8,000					78.5	6,300						
75	75.5	8,000	78.0	8,000					77.5	6,300						
80	74.5	8,000	77.0	7,800					76.5	6,300						
85	73.5	8,000	76.0	7,400	78.5	6,600			76.0	6,300	78.0	6,400				
90	72.5	7,800	74.5	7,100	77.5	6,300			75.0	6,300	77.5	6,400				
95	71.0	7,400	73.5	6,700	76.0	6,000			78.5	5,600	74.0	6,300				
100	70.0	7,100	72.0	6,400	75.0	5,800	77.5	5,300	73.5	6,300	75.5	6,400	78.0	5,800	79.0	5,100
105	68.5	6,800	71.0	6,200	73.5	5,500	76.0	5,100	72.5	6,300	74.5	6,300	77.0	5,600		
110	67.5	6,500	69.5	5,900	72.5	5,300	75.0	4,900	71.5	6,300	73.5	6,000	76.0	5,300		
115	66.0	6,200	68.5	5,600	71.0	5,100	73.5	4,800	70.5	6,300	72.5	5,800	75.0	5,100	77.0	4,700
120	65.0	5,900	67.0	5,400	70.0	4,900	72.0	4,600	69.5	6,200	71.5	5,600	74.0	5,000	76.0	4,600
125	63.5	5,600	65.5	5,200	68.5	4,700	70.5	4,400	68.5	5,700	70.5	5,400	73.0	4,800	75.0	4,400
130	62.0	5,400	64.5	5,000	67.0	4,500	69.5	4,300	67.0	4,900	69.5	5,100	71.5	4,600	73.5	4,300
135	60.5	5,200	63.0	4,800	65.5	4,400	68.0	4,100	65.5	4,200	68.0	5,000	70.5	4,400	72.5	4,100
140	59.5	4,900	61.5	4,600	64.5	4,200	66.5	4,000	64.0	3,500	67.0	4,300	69.5	4,300	71.5	4,000
145	57.5	4,500	60.0	4,400	63.0	4,100	65.0	3,900	62.5	2,900	65.5	3,700	68.5	4,200	70.0	3,900
150	56.0	3,900	58.5	4,300	61.5	3,900	63.5	3,800	61.0	2,400	64.0	3,000	67.0	3,900	69.0	3,800
155	54.0	3,400	57.0	3,900	60.0	3,800	61.5	3,700	59.5	1,800	62.5	2,500	65.5	3,200	67.5	3,700
160	52.5	2,900	55.5	3,400	58.5	3,700	60.0	3,600	58.0	1,300	61.0	2,000	64.0	2,700	66.0	3,200
165	50.5	2,400	53.5	2,900	56.5	3,400	58.5	3,500			59.5	1,500	62.5	2,100	64.5	2,600
170	49.0	2,000	51.5	2,400	54.5	2,900	56.5	3,200					60.5	1,600	63.0	2,100
175	47.0	1,600	49.5	2,000	52.5	2,400	54.5	2,700					59.0	1,200	61.0	1,600
180	45.0	1,200	48.0	1,600	50.5	2,000	52.0	2,200								
185			46.0	1,200	48.5	1,600	50.0	1,800								
190					46.5	1,200	47.5	1,300								
Min.Bm. Ang./Cap.	44.5		45.5		46.0		46.5		57.5		58.5		58.5		59.5	
Radius (ft)	181.7		186.3		191.3		192.5		161.8		169.0		175.9		180.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		121														



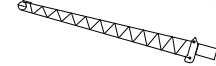
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

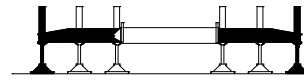
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Rated Lifting Capacities In Pounds

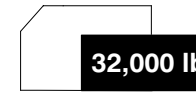
91.0' Offset Fly



2°, 15°, 30°, 45°



Full



32,000 lb



Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
50	78.0	11,000														
55	77.0	11,000							79.0	8,600						
60	76.0	11,000	78.5	10,000					78.0	8,600						
65	74.5	10,500	77.5	9,500					77.5	8,600						
70	73.5	9,900	76.0	8,900					76.5	8,600	79.0	8,700				
75	72.0	9,300	74.5	8,400	78.0	7,600			75.5	8,600	78.0	8,600				
80	70.5	8,700	73.5	8,000	76.5	7,200			74.5	8,600	77.0	8,200	79.5	7,200		
85	69.5	8,300	72.0	7,600	75.5	6,900	78.0	6,400	73.5	8,600	75.5	7,800	78.5	6,900		
90	68.0	7,800	70.5	7,200	74.0	6,500	76.5	6,100	72.5	8,300	74.5	7,400	77.5	6,600		
95	66.5	7,400	69.0	6,800	72.5	6,200	75.0	5,800	71.0	7,900	73.5	7,100	76.0	6,300	78.5	5,800
100	65.0	7,000	67.5	6,500	71.0	5,900	73.5	5,600	70.0	7,500	72.0	6,800	75.0	6,000	77.0	5,600
105	63.5	6,700	66.0	6,200	69.5	5,600	72.0	5,300	68.5	7,100	71.0	6,500	73.5	5,800	76.0	5,400
110	62.0	6,300	64.5	5,900	68.0	5,400	70.5	5,100	67.5	6,800	69.5	6,200	72.5	5,500	74.5	5,100
115	60.5	6,000	63.0	5,600	66.5	5,200	69.0	4,900	66.0	6,500	68.5	5,900	71.0	5,300	73.5	4,900
120	59.0	5,700	61.5	5,400	64.5	4,900	67.0	4,700	65.0	6,200	67.0	5,700	70.0	5,100	72.0	4,800
125	57.5	5,500	60.0	5,100	63.0	4,700	65.5	4,500	63.5	5,600	66.0	5,400	68.5	4,900	71.0	4,600
130	55.5	5,200	58.5	4,900	61.5	4,600	63.5	4,400	62.0	4,800	64.5	5,200	67.5	4,700	69.5	4,400
135	54.0	5,000	56.5	4,700	59.5	4,400	62.0	4,200	60.5	4,100	63.0	4,900	66.0	4,600	68.0	4,300
140	52.5	4,800	55.0	4,500	58.0	4,200	60.0	4,100	59.0	3,400	61.5	4,200	64.5	4,400	66.5	4,200
145	50.5	4,500	53.0	4,300	56.0	4,100	58.0	4,000	57.0	2,800	60.0	3,500	63.0	4,200	65.0	4,000
150	48.5	3,900	51.5	4,200	54.0	3,900	56.0	3,800	55.5	2,200	58.5	2,900	61.5	3,700	63.5	3,900
155	46.5	3,400	49.5	3,900	52.0	3,800	54.0	3,700	54.0	1,700	56.5	2,300	59.5	3,000	62.0	3,500
160	44.5	2,900	47.0	3,300	50.0	3,700	52.0	3,600	52.5	1,200	55.0	1,800	58.0	2,500	60.0	2,900
165	42.0	2,500	45.0	2,900	48.0	3,300	49.5	3,500			53.5	1,300	56.0	1,900	58.0	2,300
170	40.0	2,000	42.5	2,400	45.5	2,800	46.5	2,900					54.5	1,400	56.5	1,800
175	37.5	1,600	40.0	2,000	43.0	2,300									54.5	1,300
180	35.0	1,300	37.5	1,500	40.0	1,800										
185			35.0	1,200	37.0	1,400										
Min.Bm. Ang./Cap.	34.0		34.5		35.0		34.5		52.0		53.0		53.5		53.5	
Radius (ft)	182.5		186.3		188.8		188.0		160.7		166.4		173.0		177.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		111														



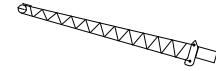
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

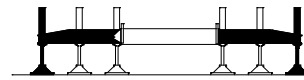
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Rated Lifting Capacities In Pounds

109.0' Offset Fly



2°, 15°, 30°, 45°



Full

32,000 lb



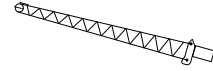
Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
65	79.5	5,200														
70	78.5	5,200														
75	78.0	5,200														
80	77.0	5,200	78.5	5,200					78.0	3,100						
85	76.0	5,200							77.5	3,100						
90	75.5	5,200														
95	74.5	5,200	76.5	4,900	78.0	4,300			77.0	3,100	77.5	3,100				
100	73.5	5,100	75.5	4,700					76.0	3,100						
105	72.5	4,800	74.5	4,400					77.0	3,100						
110	71.5	4,500	73.5	4,200	76.0	3,800	78.0	3,600	74.5	3,100	77.0	3,100	78.5	3,100		
115	70.5	4,300	72.5	4,000	75.0	3,600	77.0	3,400	74.0	3,100	76.5	3,100				
120	69.5	4,100	71.5	3,800	74.0	3,400	76.0	3,200	73.0	3,100	75.5	3,100				
125	68.0	3,900	70.0	3,600	72.5	3,300	75.0	3,100	72.5	3,100	74.5	3,100	76.5	2,700	78.5	2,400
130	67.0	3,700	69.0	3,400	71.5	3,100	73.5	2,900	71.5	2,900	73.5	2,900	76.0	2,500	77.5	2,300
135	66.0	3,500	68.0	3,200	70.5	2,900	72.5	2,800	70.5	2,500	72.5	2,700	75.0	2,400	76.5	2,200
140	64.5	3,300	67.0	3,100	69.5	2,800	71.5	2,600	69.0	2,000	71.5	2,500	74.0	2,200	76.0	2,000
145	63.5	3,100	65.5	2,900	68.0	2,600	70.0	2,500	68.0	1,600	70.5	2,100	73.0	2,100	75.0	1,900
150	62.5	2,900	64.5	2,800	67.0	2,500	69.0	2,400	67.0	1,200	69.5	1,700	72.0	2,000	74.0	1,800
155	61.0	2,600	63.0	2,600	65.5	2,400	67.5	2,300			68.5	1,300	71.0	1,700	73.0	1,600
160	59.5	2,400	62.0	2,500	64.5	2,300	66.0	2,200			70.0	1,300	72.0	1,500		
165	58.5	2,100	60.5	2,300	63.0	2,200	65.0	2,000					71.0	1,300		
170	57.0	1,800	59.5	2,000	62.0	2,100	63.5	2,000								
175	55.5	1,600	58.0	1,800	60.5	2,000	62.0	1,900								
180	54.0	1,300	56.5	1,500	59.0	1,700	60.5	1,800								
185			55.0	1,300	57.5	1,500	59.0	1,600								
190				56.0	1,200	57.5	1,400									
Min.Bm. Ang./Cap.	52.5		54.0		55.5		56.0		66.5		68.0		69.5		70.5	
Radius (ft)	185.0		188.3		192.5		195.0		151.3		157.5		162.5		167.5	
Maximum Main Boom Length At 0° Boom Angle (ft)		77														



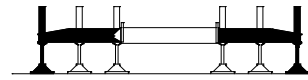
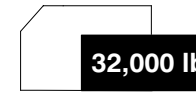
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
109.0' Offset Fly


2°, 15°, 30°, 45°


Full

32,000 lb


Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
65	78.5	6,200														
70	78.0	6,200							79.5	4,800						
75	77.0	6,200							79.0	4,800						
80	76.0	6,200	78.5	6,000					78.5	4,800						
85	75.0	6,100	77.5	5,600					77.5	4,800						
90	74.0	5,800	76.0	5,300	79.0	4,900			77.0	4,800	79.0	4,800				
95	73.0	5,400	75.0	5,000	78.0	4,600			76.0	4,800	78.0	4,600				
100	72.0	5,100	74.0	4,800	76.5	4,400	79.0	4,100	75.5	4,800	77.0	4,300	79.5	3,800		
105	70.5	4,900	73.0	4,500	75.5	4,100	78.0	3,900	74.5	4,500	76.5	4,100	78.5	3,600		
110	69.5	4,600	71.5	4,300	74.5	3,900	76.5	3,700	73.5	4,200	75.5	3,800	77.5	3,400	80.0	3,100
115	68.5	4,300	70.5	4,000	73.0	3,700	75.5	3,500	72.5	4,000	74.5	3,600	76.5	3,200	79.0	2,900
120	67.0	4,100	69.5	3,800	72.0	3,500	74.0	3,300	71.5	3,800	73.5	3,400	76.0	3,000	78.0	2,800
125	66.0	3,900	68.0	3,600	71.0	3,300	73.0	3,200	70.5	3,500	72.5	3,200	75.0	2,800	77.0	2,600
130	64.5	3,700	67.0	3,400	69.5	3,200	71.5	3,000	69.5	3,300	71.5	3,000	74.0	2,700	75.5	2,400
135	63.5	3,500	65.5	3,300	68.5	3,000	70.5	2,800	68.5	3,100	70.5	2,800	73.0	2,500	74.5	2,300
140	62.5	3,300	64.5	3,100	67.0	2,800	69.0	2,700	67.5	3,000	69.5	2,700	71.5	2,300	73.5	2,100
145	61.0	3,100	63.0	2,900	66.0	2,700	68.0	2,600	66.5	2,800	68.5	2,500	70.5	2,200	72.5	2,000
150	59.5	3,000	62.0	2,800	64.5	2,600	66.5	2,400	65.5	2,600	67.5	2,400	69.5	2,100	71.5	1,900
155	58.5	2,800	60.5	2,600	63.0	2,400	65.0	2,300	64.5	2,400	66.5	2,200	68.5	1,900	70.5	1,800
160	57.0	2,700	59.0	2,500	61.5	2,300	63.5	2,200	63.0	1,900	65.0	2,100	67.5	1,800	69.5	1,600
165	55.5	2,600	58.0	2,400	60.5	2,200	62.0	2,100	61.5	1,500	64.0	1,900	66.5	1,700	68.0	1,500
170	54.0	2,300	56.5	2,300	59.0	2,100	60.5	2,000			63.0	1,600	65.5	1,600	67.0	1,400
175	52.5	2,100	55.0	2,100	57.5	2,000	59.0	1,900					64.0	1,500	66.0	1,300
180	51.0	1,800	53.5	2,000	56.0	1,900	57.5	1,800					63.0	1,300	64.5	1,200
185	49.5	1,400	52.0	1,800	54.5	1,800	56.0	1,800								
190			50.0	1,400	52.5	1,700	54.0	1,700								
195					51.0	1,400	52.5	1,600								
200					50.0	1,200										
Min.Bm. Ang./Cap.	47.5		48.5		49.0		49.5		60.5		61.5		62.5		63.5	
Radius (ft)	190.0		195.0		200.0		201.7		170.0		175.0		182.5		185.0	
Maximum Main Boom Length At 0° Boom Angle (ft)	76															



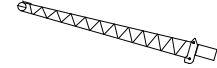
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

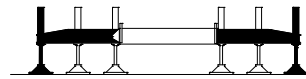
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Rated Lifting Capacities In Pounds

109.0' Offset Fly



2°, 15°, 30°, 45°



Full

32,000 lb



Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
50	79.5	8,500														
55	78.5	8,500														
60	77.5	8,500							79.5	6,700						
65	76.5	8,200	79.0	7,600					78.5	6,700						
70	75.0	7,600	77.5	7,100					77.5	6,700						
75	74.0	7,100	76.5	6,700	79.5	6,200			77.0	6,700	79.0	6,700				
80	72.5	6,700	75.0	6,300	78.5	5,900			76.0	6,700	78.0	6,400				
85	71.5	6,300	74.0	5,900	77.0	5,500	79.5	5,300	75.0	6,500	77.0	6,000				
90	70.0	5,900	72.5	5,500	75.5	5,200	78.5	5,000	74.0	6,100	76.0	5,700	78.5	5,200		
95	69.0	5,500	71.5	5,200	74.5	4,900	77.0	4,700	73.0	5,800	75.0	5,400	77.5	4,900		
100	67.5	5,200	70.0	4,900	73.0	4,600	75.5	4,400	71.5	5,500	74.0	5,100	76.5	4,600	78.5	4,400
105	66.0	4,900	68.5	4,600	71.5	4,300	74.0	4,200	70.5	5,200	72.5	4,800	75.5	4,400	77.5	4,100
110	65.0	4,600	67.5	4,300	70.5	4,100	73.0	3,900	69.5	4,900	71.5	4,500	74.0	4,200	76.5	3,900
115	63.5	4,300	66.0	4,100	69.0	3,800	71.5	3,700	68.5	4,600	70.5	4,300	73.0	3,900	75.0	3,700
120	62.0	4,100	64.5	3,900	67.5	3,600	70.0	3,500	67.0	4,400	69.5	4,100	72.0	3,700	74.0	3,500
125	60.5	3,900	63.0	3,600	66.0	3,400	68.5	3,300	66.0	4,100	68.0	3,800	70.5	3,500	73.0	3,300
130	59.0	3,600	61.5	3,400	64.5	3,200	67.0	3,100	65.0	3,900	67.0	3,600	69.5	3,400	71.5	3,200
135	57.5	3,400	60.0	3,200	63.0	3,100	65.5	3,000	63.5	3,700	66.0	3,500	68.5	3,200	70.5	3,000
140	56.0	3,200	58.5	3,100	61.5	2,900	64.0	2,800	62.5	3,500	64.5	3,300	67.0	3,000	69.0	2,900
145	54.5	3,100	57.0	2,900	60.0	2,700	62.0	2,700	61.0	3,400	63.5	3,100	66.0	2,900	68.0	2,700
150	53.0	2,900	55.5	2,700	58.5	2,600	60.5	2,500	60.0	2,900	62.0	3,000	64.5	2,700	66.5	2,600
155	51.5	2,700	54.0	2,600	57.0	2,500	58.5	2,400	58.5	2,400	61.0	2,800	63.5	2,600	65.0	2,500
160	50.0	2,600	52.5	2,500	55.0	2,300	57.0	2,300	57.0	1,900	59.5	2,500	62.0	2,500	64.0	2,400
165	48.0	2,500	50.5	2,300	53.5	2,200	55.0	2,200	55.5	1,400	58.0	2,000	60.5	2,300	62.5	2,200
170	46.5	2,300	49.0	2,200	51.5	2,100	53.0	2,100			56.5	1,500	59.0	2,100	61.0	2,100
175	44.5	2,200	47.0	2,100	49.5	2,000	51.0	2,000					57.5	1,700	59.5	2,000
180	42.5	1,900	45.0	2,000	47.5	1,900	49.0	1,900					56.0	1,200	57.5	1,500
185	40.5	1,500	43.0	1,800	45.5	1,800	46.5	1,800								
190	38.5	1,200	41.0	1,500	43.5	1,700										
195					41.0	1,400										
Min.Bm. Ang./Cap.	37.5		38.5		39.0		39.5		54.5		55.0		55.5		56.0	
Radius (ft)	191.7		195.0		198.8		198.8		168.2		175.0		181.3		185.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		73														



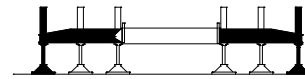
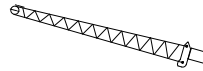
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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Rated Lifting Capacities In Pounds

18.0' Fly Extension



Full

32,000 lb



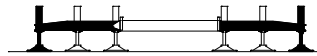
Load Radius (ft)	163.0' Boom		195.3' Boom		151.0' Boom		180.3' Boom		125.7' Boom		155.0' Boom		
	Boom Mode EM1				Boom Mode EM2				Boom Mode EM3				
25									78.5	34,500			
30									77.0	34,500	79.5	28,300	
35	77.5	16,600			77.5	24,600	79.5	16,500	75.0	34,500	78.5	28,300	
40	76.5	16,600	78.5	13,400	76.0	24,600	78.0	16,500	73.0	33,600	77.0	28,300	
45	75.0	16,600	77.5	13,400	75.0	24,600	77.0	16,500	71.0	30,500	75.5	28,300	
50	73.5	16,600	76.5	13,400	73.5	24,600	76.0	16,500	69.0	27,900	74.0	27,700	
55	72.0	16,600	75.5	13,400	71.5	22,800	74.5	16,500	66.5	25,600	72.5	25,200	
60	71.0	16,600	74.5	13,400	69.5	20,300	73.5	16,500	64.5	23,600	70.5	23,100	
65	69.5	16,600	73.5	13,400	68.0	19,800	72.0	16,500	62.0	21,800	69.0	21,100	
70	68.0	16,600	72.0	13,400	66.0	18,400	71.0	16,500	60.0	20,500	67.0	19,700	
75	66.0	16,200	71.0	13,400	64.0	17,100	69.5	16,500	57.5	19,100	65.0		
80	64.5	15,000	70.0	13,400	62.0	15,900	68.0	16,200	55.0	17,800	63.0	16,600	
85	62.5	14,000	68.5	13,400	60.0	14,800	66.5	15,000	52.5	16,300	61.0	14,600	
90	60.5	13,100	67.5	13,400	58.0	13,900	65.0	13,700	49.5	14,500	59.0	12,800	
95	59.0	12,200	65.5	12,100	56.0	13,000	63.0	12,100	46.5	12,900	57.0	11,200	
100	57.0	11,400	64.0	10,800	53.5	12,200	61.0	10,800	43.5	11,500	54.5	9,900	
105	55.0	10,700	62.5	9,500	51.5	11,100	59.5	9,500	40.5	10,300	52.5	8,700	
110	53.0	10,000	60.5	8,400	49.0	10,000	57.5	8,400	37.0	9,200	50.0	7,600	
115	50.5	9,000	59.0	7,400	46.5	9,000	55.5	7,500	33.0	8,200	47.5	6,600	
120	48.0	8,100	57.0	6,500	44.0	8,100	53.5	6,600	29.0	7,300	45.0	5,700	
125	46.0	7,300	55.0	5,700	41.0	7,300	51.5	5,700	24.0	6,400	42.5	4,900	
130	43.5	6,500	53.5	5,000	38.0	6,500	49.5	5,000	17.5	5,700	39.5	4,200	
135	40.5	5,900	51.5	4,300	35.0	5,800	47.0	4,300	5.0	5,000	36.5	3,500	
140	38.0	5,200	49.5	3,700	31.5	5,200	45.0	3,700			33.5	2,800	
145	35.0	4,600	47.5	3,100	27.5	4,600	42.5	3,100			30.0	2,300	
150	31.5	4,100	45.5	2,600	23.0	4,000	40.0	2,600			26.0	1,700	
155	28.0	3,600	43.0	2,100	17.5	3,500	37.5	2,100			21.0	1,200	
160	24.0	3,100	41.0	1,600	7.0	3,100	34.5	1,600					
165	19.0	2,700											
170	12.0	2,300											
Min.Bm. Ang./Cap.	0.0	1,100	39.0		0.0	2,200	32.0		0.0	4,800	19.5		
Radius (ft)	172.4		164.2		160.4		164.3		135.1		156.3		
Maximum Main Boom Length At 0° Boom Angle (ft)		163				165				150			



PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds****Full****45,000 lb**

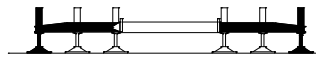
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	51,000
12	66.5	240,000	72.0	77,300	76.5	51,000
15	61.5	194,500	69.0	77,300	73.5	51,000
20	53.0	143,900	63.0	77,300	69.5	51,000
25	43.0	112,500	56.5	77,300	65.0	51,000
30	29.5	91,200	50.0	77,300	60.0	51,000
35			42.0	77,300	55.0	51,000
40			32.5	67,500	49.5	46,400
45			18.0	55,100	43.5	42,500
50					37.0	39,400
55					28.5	36,600
60					15.5	34,400
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	43,200	64.0	36,200	68.0	36,900
45	54.5	39,700	60.5	33,000	65.5	33,800
50	50.0	36,500	57.5	30,300	62.5	31,000
55	45.0	33,700	53.5	27,900	59.5	28,600
60	39.5	31,300	50.0	25,900	56.5	26,500
65	33.5	29,200	46.0	24,100	53.5	24,700
70	26.0	27,400	41.5	22,500	50.5	23,100
75	14.5	25,800	36.5	21,100	47.0	21,600
80			31.0	19,900	43.0	20,400
85			24.0	18,800	39.0	19,200
90			13.0	17,800	34.5	18,100
95					29.0	17,100
100					22.5	16,200
105					12.5	15,200
Min.Bm. Ang./Cap.	0.0	10,800	0.0	8,700	0.0	7,100
Radius (ft)	76.5		91.5		106.5	



PORTLAND OFFICE: 503.283.3111
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Rated Lifting Capacities In Pounds



Full

45,000 lb

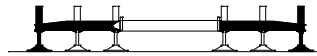


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
		360°		360°		360°
25	77.0	31,400				
30	75.0	31,400	77.0	29,500	78.0	26,200
35	73.0	31,400	75.0	29,500	76.5	26,200
40	71.0	31,400	73.5	29,500	75.0	26,200
45	69.0	30,100	71.5	29,500	73.5	26,200
50	66.5	27,600	69.5	29,300	72.0	26,200
55	64.0	25,500	67.5	27,000	70.0	24,700
60	61.5	23,500	65.5	25,000	68.0	22,800
65	59.0	21,900	63.0	23,200	66.0	21,100
70	56.0	20,500	60.5	21,600	64.0	19,800
75	53.5	19,100	58.5	20,300	62.0	18,400
80	50.5	17,900	56.0	19,000	60.0	17,200
85	47.5	16,800	53.5	17,900	57.5	16,000
90	44.0	15,800	50.5	16,800	55.5	15,000
95	40.5	14,900	48.0	15,800	53.0	14,100
100	36.5	14,000	45.0	14,900	51.0	13,200
105	32.5	13,200	42.0	14,000	48.5	12,400
110	27.5	12,500	38.5	13,300	45.5	11,600
115	21.5	11,800	35.0	12,300	43.0	10,900
120	12.0	11,200	31.0	11,200	40.0	10,300
125			26.5	10,300	37.0	9,700
130			20.5	9,400	33.5	9,000
135			11.5	8,600	29.5	8,200
140					25.0	7,500
145					19.5	6,800
150					11.0	6,200
Min.Bm. Ang./Cap.	0.0	5,400	0.0	4,800	0.0	4,200
Radius (ft)	121.5		136.5		151.5	

Load Radius (ft)	175.0 ft		185.0 ft		195.3 ft	
		360°		360°		360°
35	78.0	24,400	78.0	18,800		
40	76.5	24,400	77.0	18,800	77.5	17,000
45	75.0	24,400	75.5	18,800	76.0	17,000
50	73.5	24,400	74.5	18,800	75.0	17,000
55	72.5	24,400	73.0	18,800	74.0	17,000
60	70.5	23,800	71.5	18,800	72.5	17,000
65	68.5	20,800	70.0	18,800	71.5	17,000
70	67.0	20,700	69.0	18,800	70.0	17,000
75	65.5	19,300	67.5	18,800	68.5	17,000
80	63.5	18,100	65.5	17,900	67.5	17,000
85	61.5	16,900	64.0	16,600	65.5	15,800
90	59.5	15,900	62.0	15,400	64.0	14,700
95	57.5	14,900	60.0	14,400	62.0	13,600
100	55.5	14,000	58.5	13,400	60.5	12,600
105	53.5	13,200	56.5	12,400	58.5	11,700
110	51.5	12,300	54.5	11,600	57.0	10,900
115	49.0	11,200	52.5	10,700	55.0	10,100
120	46.5	10,200	50.0	9,700	53.0	9,300
125	44.0	9,200	48.0	8,800	51.0	8,400
130	41.5	8,400	45.5	7,900	49.0	7,500
135	38.5	7,600	43.0	7,100	46.5	6,700
140	35.5	6,800	40.5	6,400	44.5	6,000
145	32.0	6,100	37.5	5,700	42.0	5,300
150	28.5	5,500	34.5	5,100	39.5	4,700
155	24.0	4,900	31.5	4,500	37.0	4,100
160	19.0	4,400	28.0	4,000	34.0	3,600
165	10.5	3,900	23.5	3,500	31.0	3,100
170			18.5	3,000	27.5	2,600
175			10.5	2,600	23.5	2,200
180					18.5	1,800
185					11.0	1,400
Min.Bm. Ang./Cap.	0.0	3,600	0.0	2,500	0.0	1,300
Radius (ft)	166.5		176.5		186.7	



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 SEATTLE OFFICE: 206.784.1054
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**Rated Lifting Capacities
In Pounds****Full****45,000 lb**

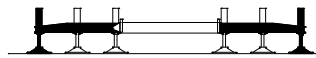
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
		360°		360°		360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	61,600
12	66.5	240,000	72.0	77,300	76.5	61,600
15	61.5	194,500	69.0	77,300	73.5	61,600
20	53.0	143,900	63.0	77,300	69.5	61,600
25	43.0	112,500	56.5	77,300	65.0	61,600
30	29.5	91,200	50.0	77,300	60.0	59,900
35			42.0	77,300	55.0	54,100
40			32.5	67,500	49.5	49,400
45			18.0	55,100	43.5	45,400
50					37.0	42,000
55					28.5	39,200
60					15.5	36,500
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
		360°		360°		360°
15	77.0	61,900				
20	73.5	61,900	76.0	52,900	78.0	39,000
25	70.0	59,400	73.5	52,900	75.5	39,000
30	66.5	52,800	70.5	47,800	73.5	39,000
35	62.5	47,400	67.5	43,100	71.0	39,000
40	58.5	43,000	64.0	39,300	68.5	36,600
45	54.5	39,400	61.0	36,000	65.5	33,400
50	50.0	36,300	57.5	33,200	62.5	30,700
55	45.0	33,500	54.0	30,700	60.0	28,300
60	39.5	31,200	50.0	28,500	56.5	26,200
65	33.5	29,100	46.0	26,600	53.5	24,400
70	26.0	27,200	41.5	24,900	50.5	22,800
75	14.5	25,700	36.5	23,400	47.0	21,300
80			31.0	22,100	43.0	20,100
85			24.0	20,900	39.0	18,900
90			13.5	19,700	34.5	17,800
95					29.0	16,800
100					22.5	15,900
105					12.5	14,900
Min.Bm. Ang./Cap.	0.0	12,000	0.0	9,800	0.0	8,000
Radius (ft)	76.5		91.5		106.5	



PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

45,000 lb



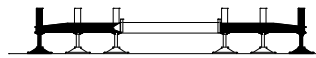
Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
		360°		360°		360°
25	77.5	35,600				
30	75.5	35,600	77.0	32,200	78.5	30,200
35	73.5	35,600	75.5	32,200	77.0	30,200
40	71.5	35,600	73.5	32,200	75.5	30,200
45	69.0	32,800	71.5	31,500	74.0	30,200
50	66.5	30,200	69.5	28,900	72.0	29,100
55	64.0	27,900	67.5	26,600	70.5	26,800
60	61.5	25,900	65.5	24,600	68.5	24,800
65	59.0	24,100	63.0	22,800	66.5	23,100
70	56.5	22,500	60.5	21,200	64.5	21,500
75	53.5	21,100	58.5	19,900	62.5	20,100
80	50.5	19,900	56.0	18,600	60.5	18,800
85	47.5	18,700	53.5	17,400	58.0	17,700
90	44.0	17,600	51.0	16,300	56.0	16,600
95	40.5	16,600	48.0	15,300	53.5	15,600
100	37.0	15,700	45.0	14,400	51.0	14,700
105	32.5	14,600	42.0	13,600	48.5	13,600
110	27.5	13,300	39.0	12,800	46.0	12,300
115	21.5	12,200	35.0	11,800	43.0	11,200
120	12.0	11,200	31.0	10,700	40.0	10,100
125			26.5	9,800	37.0	9,200
130			20.5	8,900	33.5	8,300
135			11.5	8,100	29.5	7,500
140					25.0	6,800
145					19.5	6,100
150					11.0	5,500
Min.Bm. Ang./Cap.	0.0	6,200	0.0	4,700	0.0	3,100
Radius (ft)	121.5		136.5		151.5	

Load Radius (ft)	170.0 ft		180.3 ft	
		360°		360°
35	78.0	28,000	78.5	24,900
40	76.5	28,000	77.5	24,900
45	75.0	28,000	76.0	24,900
50	74.0	28,000	75.0	24,900
55	72.5	27,900	73.5	24,900
60	70.5	26,000	72.0	24,100
65	68.5	24,200	70.0	22,200
70	67.0	22,600	68.5	20,600
75	65.0	21,100	66.5	19,000
80	63.0	19,800	65.0	17,600
85	61.0	18,600	63.0	16,300
90	59.0	17,400	61.0	15,100
95	57.0	16,100	59.5	14,000
100	54.5	14,500	57.5	13,000
105	52.5	13,100	55.5	12,100
110	50.0	11,800	53.0	11,200
115	47.5	10,700	51.0	10,200
120	45.0	9,700	48.5	9,200
125	42.0	8,700	46.5	8,300
130	39.0	7,800	44.0	7,400
135	36.0	7,000	41.0	6,600
140	32.5	6,300	38.5	5,900
145	29.0	5,600	35.5	5,200
150	24.5	5,000	32.0	4,600
155	19.5	4,400	28.5	4,000
160	11.0	3,900	24.5	3,500
165			19.0	3,000
170			11.5	2,500
Min.Bm. Ang./Cap.	0.0	2,200	0.0	1,600
Radius (ft)	161.5		171.7	



PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds



Full

45,000 lb



Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft	
		360°		360°		360°		360°
9	71.0	280,000						
10	69.5	264,900	74.0	77,300	77.5	68,700		
12	66.5	240,000	72.0	77,300	76.5	68,700		
15	61.5	194,500	69.0	77,300	74.0	68,700	76.5	69,000
20	53.0	143,900	63.0	77,300	69.5	68,700	74.0	69,000
25	43.0	112,500	56.5	77,300	65.0	68,700	70.0	69,000
30	29.5	91,200	50.0	77,300	60.5	68,700	66.5	69,000
35			42.0	77,300	55.5	68,700	62.5	69,000
40			32.5	67,500	50.0	68,700	58.5	62,800
45			18.0	55,100	44.0	57,600	54.5	57,400
50					37.0	48,400	50.0	48,900
55					28.5	41,300	45.0	41,900
60					15.5	35,800	39.5	36,300
65							33.5	31,800
70							25.5	28,100
75							14.0	24,900
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	20,800	0.0	16,700
Radius (ft)	33.7		46.5		61.5		76.5	

Load Radius (ft)	100.0 ft		115.0 ft		130.0 ft		145.0 ft		155.0 ft	
		360°		360°		360°		360°		360°
20	76.0	54,700	78.5	54,000						
25	73.5	54,700	76.0	54,000	78.0	49,400				
30	70.5	53,100	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	67.5	47,700	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	64.0	43,200	68.0	41,300	71.5	38,700	74.0	40,300	75.5	35,500
45	60.5	39,600	65.5	37,600	69.0	35,300	72.0	36,800	73.5	33,000
50	57.5	36,300	62.5	34,400	66.5	32,300	70.0	33,700	71.5	30,000
55	53.5	33,500	59.5	31,700	64.0	29,700	68.0	31,000	69.5	27,300
60	50.0	31,000	56.5	29,300	61.5	27,400	65.5	28,600	67.5	24,900
65	46.0	28,900	53.5	27,100	59.0	25,400	63.5	26,400	65.5	22,800
70	41.5	26,900	50.0	25,200	56.0	23,600	61.0	24,500	63.5	21,000
75	36.5	25,100	46.5	23,500	53.5	22,000	59.0	22,800	61.5	19,400
80	31.0	22,400	43.0	22,000	50.5	20,600	56.5	20,700	59.0	17,800
85	24.0	20,100	39.0	19,700	47.5	19,200	53.5	18,400	56.5	16,500
90	13.0	18,000	34.0	17,700	44.0	17,200	51.0	16,600	54.5	15,200
95			29.0	16,000	40.5	15,600	48.0	14,800	52.0	14,000
100			22.5	14,400	36.5	13,900	45.0	13,200	49.5	12,800
105			12.5	12,900	32.5	12,500	42.0	11,800	46.5	11,400
110					27.5	11,200	38.5	10,600	44.0	10,200
115					21.0	10,100	35.0	9,400	41.0	9,000
120					11.5	9,100	31.0	8,400	37.5	8,000
125							26.5	7,400	34.0	7,100
130							20.5	6,600	30.0	6,200
135							11.5	5,800	25.5	5,400
140									20.0	4,700
145									11.0	4,000
Min.Bm. Ang./Cap.	0.0	13,100	0.0	10,200	0.0	7,500	0.0	5,300	0.0	3,800
Radius (ft)	91.5		106.5		121.5		136.5		146.4	

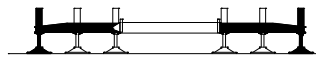


PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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Rated Lifting Capacities In Pounds



Full

45,000 lb



Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	68,700
12	66.5	240,000	72.0	77,300	76.5	68,700
15	61.5	194,500	69.0	77,300	74.0	68,700
20	53.0	143,900	63.0	77,300	69.5	68,700
25	43.0	112,500	56.5	77,300	65.0	68,700
30	29.5	91,200	50.0	77,300	60.5	68,700
35			42.0	77,300	55.5	68,700
40			32.5	67,500	50.0	68,700
45			18.0	55,100	44.0	57,600
50					37.0	48,400
55					28.5	41,300
60					15.5	35,800
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	20,800
Radius (ft)	33.7		46.5		61.5	

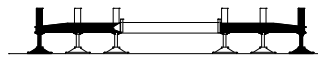
Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft		129.6 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
15	76.5	64,900						
20	74.0	64,900	76.0	65,000	78.5	61,300		
25	70.0	64,900	73.5	65,000	76.0	61,300	78.0	47,200
30	66.5	64,900	70.5	65,000	74.0	61,300	76.0	47,200
35	62.5	64,900	67.5	65,000	71.5	61,300	73.5	45,500
40	58.5	64,900	64.5	62,400	68.5	57,400	71.5	40,800
45	54.5	57,900	61.0	57,000	66.0	52,000	69.0	36,800
50	50.0	48,900	57.5	48,300	63.0	47,100	66.5	33,300
55	45.0	41,900	54.0	41,300	60.0	40,200	64.0	30,300
60	39.5	36,300	50.0	35,800	57.0	34,700	61.5	27,600
65	33.5	31,800	46.0	31,500	53.5	30,400	59.0	25,300
70	25.5	28,000	41.5	27,700	50.0	26,700	56.0	23,200
75	14.0	24,900	36.5	24,500	46.5	23,600	53.5	21,300
80			30.5	21,800	42.5	20,900	50.5	19,800
85			23.5	19,500	38.5	18,600	47.0	17,800
90			13.0	17,500	34.0	16,600	44.0	15,900
95					28.5	14,800	40.0	14,200
100					22.0	13,200	36.5	12,600
105					12.0	11,800	32.0	11,100
110							27.0	9,900
115							20.5	8,700
120							10.5	7,700
Min.Bm. Ang./Cap.	0.0	16,700	0.0	13,100	0.0	9,800	0.0	6,900
Radius (ft)	76.5		91.5		106.5		121.0	



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**Rated Lifting Capacities
In Pounds**

Full
45,000 lb


Load Radius (ft)	42.3 ft		56.4 ft	
	$\angle$ °	360°	$\angle$ °	360°
9	71.0	280,000		
10	69.5	264,900	75.0	157,100
12	66.5	240,000	73.0	157,100
15	61.5	194,500	69.5	157,100
20	53.0	143,900	64.0	147,200
25	43.0	112,500	57.5	116,000
30	29.5	91,200	51.0	94,700
35			43.5	79,300
40			34.5	66,700
45			22.5	54,400
Min.Bm. Ang./Cap.	0.0	59,600	0.0	43,100
Radius (ft)	33.7		47.8	

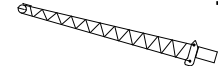
Load Radius (ft)	71.3 ft		87.1 ft		103.7 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	78.5	151,700				
12	77.0	144,800				
15	74.5	137,400	77.5	110,100		
20	70.0	118,300	74.0	106,500	77.0	80,700
25	65.5	103,700	70.5	93,500	74.5	77,100
30	61.0	92,100	67.0	83,200	71.5	67,900
35	56.0	80,500	63.5	74,700	68.5	60,500
40	50.5	68,100	59.5	67,700	65.5	54,300
45	45.0	55,900	55.5	55,500	62.5	49,000
50	38.5	46,800	51.0	46,600	59.0	44,500
55	30.5	39,800	46.5	39,700	55.5	38,600
60	19.5	34,300	41.0	34,300	52.0	33,300
65			35.5	29,800	48.0	28,800
70			28.5	26,000	44.0	25,200
75			19.5	22,900	39.5	22,000
80					34.5	19,400
85					28.5	17,100
90					21.0	15,100
95					6.5	13,300
Min.Bm. Ang./Cap.	0.0	31,700	0.0	21,000	0.0	13,200
Radius (ft)	62.7		78.5		95.2	



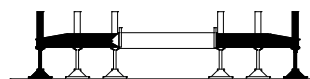
PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds

31.0' Offset Fly



2°, 15°, 30°, 45°



Full

45,000 lb



Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
35	79.0	14,400	78.5	14,500												
40	77.5	14,400														
45	76.5	14,400														
50	75.0	14,400	77.5	14,500	78.0	14,200			79.0	10,800						
55	74.0	14,400	76.0	14,500					78.0	10,800						
60	72.5	14,400	74.5	14,500					77.0	14,100						
65	71.5	14,400	73.5	14,500	75.5	14,000	77.0	13,100	76.0	10,800	78.0	10,800	79.0	10,900		
70	70.0	14,400	72.0	14,500	74.0	13,800	75.5	13,000	75.0	10,800	77.0	10,800				
75	68.5	14,400	71.0	14,500	72.5	13,700	74.5	13,000	74.0	10,800	76.0	10,800				
80	67.0	14,400	69.5	14,500	71.5	13,600	73.0	12,900	73.0	10,800	74.5	10,800	76.5	10,900	78.5	11,100
85	65.5	13,400	67.5	13,600	70.0	13,500	71.5	12,800	72.0	10,800	73.5	10,800	75.5	10,900	77.0	11,100
90	64.0	12,500	66.0	12,700	68.0	12,900	69.5	12,800	70.5	10,800	72.5	10,800	74.5	10,900	76.0	11,100
95	62.0	11,600	64.0	11,800	66.5	12,000	68.0	12,200	69.5	10,800	71.5	10,800	73.5	10,900	75.0	11,100
100	60.5	10,900	62.5	11,000	64.5	11,300	66.0	11,500	68.5	10,800	70.5	10,800	72.0	10,900	73.5	11,100
105	58.5	10,100	60.5	10,300	62.5	10,500	64.0	10,700	67.0	10,100	69.0	10,400	71.0	10,800	72.5	11,100
110	56.5	9,500	59.0	9,700	61.0	9,900	62.0	10,000	65.5	9,300	67.5	9,700	69.5	10,000	70.5	10,300
115	54.5	8,900	57.0	9,100	59.0	9,200	60.0	9,400	64.0	8,600	66.0	9,000	67.5	9,300	69.0	9,600
120	53.0	8,300	55.0	8,500	57.0	8,700	58.0	8,800	62.5	8,000	64.0	8,300	66.0	8,600	67.5	8,900
125	51.0	7,800	53.0	7,900	54.5	8,100	56.0	8,200	60.5	7,400	62.5	7,700	64.5	8,000	66.0	8,200
130	48.5	7,300	51.0	7,400	52.5	7,600	53.5	7,700	59.0	6,800	61.0	7,100	63.0	7,400	64.0	7,600
135	46.5	6,800	48.5	7,000	50.5	7,100	51.5	7,200	57.5	6,300	59.5	6,600	61.0	6,800	62.5	7,000
140	44.5	6,400	46.5	6,500	48.0	6,600	49.0	6,700	55.5	5,700	57.5	6,000	59.5	6,300	60.5	6,500
145	42.0	6,000	44.0	6,100	45.5	6,200	46.5	6,300	54.0	5,100	56.0	5,500	57.5	5,800	58.5	6,000
150	39.5	5,600	41.5	5,700	43.0	5,800			52.0	4,500	54.0	4,800	55.5	5,200	56.5	5,400
155	37.0	5,200	39.0	5,400	40.0	5,400			50.0	3,900	52.0	4,200	53.5	4,600	54.5	4,700
160	34.0	4,900	36.0	5,000	37.0	5,100			48.0	3,300	50.0	3,700	51.5	4,000	52.5	4,100
165	31.0	4,400	32.5	4,600	34.0	4,700			46.0	2,800	48.0	3,200	49.5	3,400	50.0	3,500
170	27.0	4,000	29.0	4,100	30.0	4,200			44.0	2,400	46.0	2,700	47.5	2,900	48.0	3,000
175	23.0	3,500	25.0	3,700					42.0	1,900	43.5	2,200	45.0	2,400	45.5	2,500
180	18.0	3,100	19.5	3,200					39.5	1,500	41.5	1,800	42.5	2,000		
185									37.0	1,200	39.0	1,400	40.0	1,500		
Min.Bm. Ang./Cap.	0.0	2,100	0.0	2,100	0.0	2,200	0.0	2,400	36.5		37.0		37.5		37.5	
Radius (ft)	185.4		185.0		183.0		179.2		186.3		188.8		190.0		190.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		178														



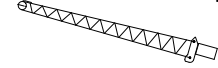
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

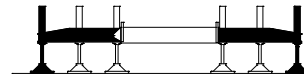
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Rated Lifting Capacities In Pounds

31.0' Offset Fly



2°, 15°, 30°, 45°



Full

45,000 lb



Load Radius (ft)	151' Boom								180.3 Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
35	78.5	17,100	78.0	17,000					79.0	13,500						
40	77.0	17,100														
45	75.5	17,100														
50	74.5	17,100	76.5	16,800	79.0	15,200	79.0	13,900	78.0	13,500	79.0	13,600				
55	73.0	17,100	75.0	16,600	77.5	15,000			77.0	13,500						
60	71.5	17,100	73.5	16,300	76.0	14,800			77.5	13,700						
65	70.0	17,100	72.0	16,100	74.0	14,600	76.0	13,600	74.5	13,500	76.5	13,600	79.0	13,600	79.0	12,700
70	68.5	17,100	70.5	15,900	72.5	14,400	74.5	13,500	73.5	13,500	75.5	13,600	77.5	13,400		
75	67.0	16,300	69.0	15,700	71.0	14,300	72.5	13,400	72.5	13,500	74.5	13,600	76.5	13,300		
80	65.0	15,200	67.5	15,300	69.5	14,100	71.0	13,300	71.5	13,500	73.5	13,600	75.0	13,200	76.5	12,600
85	63.5	14,100	65.5	14,300	68.0	14,000	69.5	13,200	70.0	13,500	72.0	13,600	74.0	13,100	75.5	12,500
90	61.5	13,200	64.0	13,400	66.0	13,600	67.5	13,200	68.5	13,300	70.5	13,600	72.5	13,000	74.0	12,500
95	59.5	12,300	62.0	12,500	64.0	12,700	65.5	12,900	67.0	12,300	69.0	12,700	71.0	12,900	72.5	12,500
100	57.5	11,600	60.0	11,700	62.0	11,900	63.5	12,100	65.5	11,400	67.5	11,800	69.5	12,200	71.0	12,400
105	55.5	10,800	58.0	11,000	60.0	11,200	61.5	11,300	64.0	10,600	66.0	11,000	68.0	11,300	69.5	11,600
110	53.5	10,200	56.0	10,300	58.0	10,500	59.5	10,600	62.0	9,800	64.5	10,200	66.0	10,500	67.5	10,800
115	51.5	9,500	53.5	9,700	55.5	9,800	57.0	10,000	60.5	9,100	62.5	9,500	64.5	9,800	66.0	10,100
120	49.5	8,900	51.5	9,100	53.5	9,200	54.5	9,400	59.0	8,500	61.0	8,800	62.5	9,100	64.0	9,300
125	47.0	8,400	49.0	8,500	51.0	8,700	52.0	8,800	57.0	7,900	59.0	8,200	61.0	8,400	62.0	8,700
130	44.5	7,900	47.0	8,000	48.5	8,200	49.5	8,300	55.0	7,300	57.0	7,600	59.0	7,800	60.5	8,000
135	42.0	7,400	44.5	7,600	46.0	7,700	47.0	7,800	53.5	6,600	55.5	7,000	57.0	7,200	58.5	7,400
140	39.5	7,000	41.5	7,100	43.5	7,200			51.5	5,800	53.5	6,200	55.0	6,600	56.0	6,800
145	36.5	6,600	39.0	6,700	40.5	6,800			49.5	5,200	51.5	5,500	53.0	5,900	54.0	6,100
150	33.5	6,100	36.0	6,300	37.0	6,400			47.0	4,500	49.0	4,900	51.0	5,200	51.5	5,400
155	30.0	5,500	32.5	5,700	33.5	5,800			45.0	4,000	47.0	4,300	48.5	4,600	49.5	4,700
160	26.5	5,000	28.5	5,100					42.5	3,400	44.5	3,700	46.0	4,000	47.0	4,100
165	21.5	4,500	23.5	4,600					40.5	2,900	42.0	3,200	43.5	3,400		
170	15.5	4,000	17.0	4,100					38.0	2,500	39.5	2,700	41.0	2,900		
175									35.0	2,000	37.0	2,300	38.0	2,400		
180									32.0	1,600	34.0	1,800	35.0	1,900		
185									29.0	1,300	31.0	1,400	31.5	1,500		
Min.Bm. Ang./Cap.	0.0	2,700	0.0	2,800	0.0	2,900	0.0	3,100	27.5		28.0		27.5		27.5	
Radius (ft)	173.4		173.0		171.0		167.3		187.5		188.8		190.0		188.8	
Maximum Boom Length At 0° Boom Angle (ft)		175														



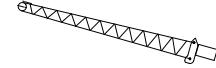
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

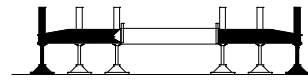
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Rated Lifting Capacities In Pounds

31.0' Offset Fly



2°, 15°, 30°, 45°



Full

45,000 lb



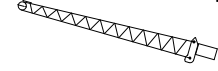
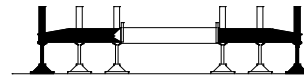
Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
30	78.0	27,900														
35	76.5	26,900	78.5	20,200												
40	75.0	26,000	77.0	19,700					78.5	18,900						
45	73.0	25,100	75.0	19,200	77.5	16,700			77.5	18,900	79.5	17,700				
50	71.0	24,200	73.5	18,700	76.0	16,300	78.0	14,700	76.0	18,900	78.0	17,400				
55	69.5	23,300	71.5	18,300	74.0	16,000	76.0	14,500	74.5	18,900	76.5	17,100	78.5	15,200		
60	67.5	22,300	69.5	17,800	72.0	15,700	74.0	14,300	73.0	18,800	75.0	16,800	77.0	15,000	79.0	13,800
65	65.5	19,800	67.5	17,400	70.0	15,400	72.0	14,100	72.0	18,500	73.5	16,500	75.5	14,800	77.5	13,700
70	63.5	19,300	65.5	17,000	68.0	15,100	70.0	14,000	70.5	18,100	72.0	16,200	74.0	14,600	76.0	13,600
75	61.5	18,100	63.5	16,600	66.0	14,900	68.0	13,900	68.5	17,300	70.5	16,000	72.5	14,400	74.0	13,500
80	59.0	16,900	61.5	16,200	64.0	14,600	65.5	13,800	67.0	16,000	69.0	15,700	71.0	14,200	72.5	13,400
85	57.0	15,800	59.5	15,800	62.0	14,400	63.5	13,700	65.0	14,800	67.5	15,200	69.5	14,100	71.0	13,300
90	54.5	14,700	57.0	14,800	59.5	14,200	61.0	13,600	63.5	13,700	65.5	14,100	68.0	13,900	69.5	13,200
95	52.0	13,800	55.0	13,900	57.0	14,000	58.5	13,600	61.5	12,700	64.0	13,100	66.0	13,400	67.5	13,200
100	49.5	12,900	52.5	13,000	54.5	13,100	56.0	13,300	59.5	11,700	62.0	12,100	64.0	12,500	65.5	12,800
105	47.0	12,100	49.5	12,200	52.0	12,400	53.5	12,500	57.5	10,900	60.0	11,200	62.0	11,600	63.5	11,800
110	44.5	11,400	47.0	11,500	49.0	11,600	50.5	11,700	55.5	10,100	58.0	10,400	60.0	10,700	61.5	11,000
115	41.5	10,800	44.0	10,800	46.0	10,900	47.0	11,000	53.5	9,300	56.0	9,600	58.0	9,900	59.5	10,200
120	38.5	10,100	41.0	10,200	43.0	10,300			51.5	8,500	53.5	8,900	55.5	9,200	57.0	9,400
125	35.0	9,200	37.5	9,600	39.5	9,700			49.0	7,600	51.5	8,000	53.5	8,500	54.5	8,700
130	31.5	8,400	34.0	8,600	35.5	8,800			47.0	6,700	49.0	7,100	51.0	7,500	52.0	7,700
135	27.0	7,600	29.5	7,800	30.5	7,900			44.5	5,900	46.5	6,300	48.5	6,700	49.5	6,800
140	22.0	6,900	24.5	7,000					42.0	5,200	44.0	5,600	45.5	5,900	46.5	6,000
145	15.0	6,200	17.0	6,300					39.0	4,500	41.5	4,900	43.0	5,100		
150									36.5	3,900	38.5	4,200	40.0	4,400		
155									33.0	3,400	35.0	3,600	36.5	3,800		
160									29.5	2,800	31.5	3,000	33.0	3,200		
165									26.0	2,300	27.5	2,500				
170									21.0	1,900	23.0	2,000				
175									14.5	1,500	16.0	1,500				
Min.Bm. Ang./Cap.	0.0	4,700	0.0	4,800	0.0	5,000	0.0	5,400	0.0	1,300	0.0	1,300	0.0	1,400	0.0	1,500
Radius (ft)	148.1		147.8		145.9		142.3		177.5		177.1		175.1		171.3	



PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
55.0' Offset Fly

2°, 15°, 30°, 45°

Full
45,000 lb


Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
40	79.5	10,600														
45	78.0	10,600														
50	77.0	10,600														
55	76.0	10,600							79.5	8,300						
60	75.0	10,600	78.5	9,700					78.5	8,300						
65	74.0	10,600	77.0	9,600					78.0	8,300						
70	73.0	10,600	76.0	9,400	79.0	8,400			77.0	8,300						
75	71.5	10,400	74.5	9,300	78.0	8,200			76.0	8,300	79.0	8,400				
80	70.5	10,200	73.5	9,100	76.5	8,100			75.0	8,300	78.0	8,300				
85	69.0	10,100	72.0	9,000	75.5	8,000	78.0	7,400	74.0	8,300	77.0	8,200				
90	68.0	9,900	71.0	8,800	74.0	7,900	76.5	7,300	73.5	8,300	76.0	8,200	79.0	7,400		
95	66.5	9,700	69.5	8,700	72.5	7,800	75.5	7,200	72.5	8,300	75.0	8,100	78.0	7,300		
100	65.5	9,500	68.5	8,500	71.5	7,700	74.0	7,200	71.5	8,300	74.0	8,000	77.0	7,300	79.0	6,800
105	64.0	9,300	67.0	8,400	70.0	7,600	72.5	7,100	70.5	8,300	73.0	7,900	75.5	7,200	78.0	6,800
110	62.5	8,700	65.5	8,300	68.5	7,500	71.0	7,100	69.5	8,300	72.0	7,800	74.5	7,100	77.0	6,800
115	61.0	8,100	64.0	8,200	67.0	7,400	69.5	7,000	68.5	8,300	71.0	7,700	73.5	7,100	75.5	6,700
120	59.0	7,600	62.5	7,900	65.5	7,400	68.0	7,000	67.0	7,700	70.0	7,600	72.5	7,000	74.5	6,700
125	57.5	7,100	61.0	7,400	64.0	7,300	66.5	7,000	65.5	7,100	68.5	7,600	71.5	7,000	73.5	6,700
130	56.0	6,600	59.5	6,900	62.5	7,100	64.5	6,900	64.0	6,600	67.5	7,000	70.0	6,900	72.0	6,700
135	54.0	6,200	57.5	6,400	60.5	6,700	63.0	6,900	62.5	6,000	66.0	6,500	69.0	6,900	71.0	6,600
140	52.5	5,800	55.5	6,000	59.0	6,200	61.0	6,400	61.0	5,600	64.5	6,000	67.5	6,400	69.5	6,600
145	50.5	5,400	54.0	5,600	57.0	5,800	59.0	6,000	60.0	5,100	63.0	5,500	66.0	5,900	68.0	6,300
150	48.5	5,100	52.0	5,200	55.0	5,400	57.0	5,600	58.5	4,700	61.5	5,100	64.5	5,500	66.5	5,800
155	46.5	4,700	50.0	4,900	53.0	5,100	54.5	5,200	56.5	4,300	59.5	4,600	62.5	5,000	64.5	5,300
160	44.5	4,400	48.0	4,600	50.5	4,700	52.0	4,800	55.0	3,900	58.0	4,200	61.0	4,600	63.0	4,800
165	42.5	4,100	46.0	4,200	48.5	4,400	49.5	4,500	53.5	3,500	56.5	3,800	59.5	4,200	61.0	4,400
170	40.5	3,800	43.5	4,000	46.0	4,100	47.0	4,200	52.0	3,000	55.0	3,500	57.5	3,800	59.5	4,000
175	38.0	3,600	41.0	3,700	43.5	3,800			50.0	2,600	53.0	3,100	56.0	3,400	57.5	3,600
180	35.5	3,300	38.5	3,400	41.0	3,500			48.5	2,100	51.5	2,600	54.0	3,000	55.5	3,200
185	33.0	3,100	36.0	3,200	38.0	3,300			46.5	1,700	49.5	2,200	52.0	2,600	53.5	2,800
190	30.0	2,900	33.0	2,900	34.5	3,000			44.5	1,400	47.5	1,800	50.0	2,100	51.0	2,300
195	26.5	2,600	29.5	2,700	30.5	2,800					45.5	1,400	48.0	1,700	49.0	1,800
200	22.5	2,300	25.5	2,400									46.0	1,300	46.5	1,400
205	17.5	2,000	20.0	2,100												
Min.Bm. Ang./Cap.	14.5		15.5		17.0		18.0		43.5		43.5		45.0		44.5	
Radius (ft)	207.0		206.4		201.7		193.0		193.8		200.0		202.5		203.8	
Maximum Boom Length At 0° Boom Angle (ft)		155														



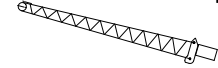
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

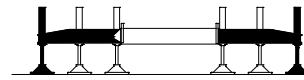
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Rated Lifting Capacities In Pounds

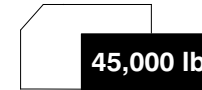
55.0' Offset Fly



2°, 15°, 30°, 45°



Full



45,000 lb



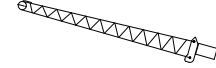
Load Radius (ft)	151' Boom								180.3' Boom									
	2°		15°		30°		45°		2°		15°		30°		45°			
45	78.0	12,400	79.0	10,500					79.5	10,100								
50	76.5	12,200							78.5	10,100								
55	75.5	12,000							78.0	10,100								
60	74.0	11,700	77.5	10,300					78.0	10,100								
65	73.0	11,500	76.0	10,100					77.0	10,100								
70	71.5	11,300	75.0	9,900					76.0	10,100								
75	70.5	11,000	73.5	9,700	77.0	8,500	78.5	7,600	75.0	10,100	77.5	9,100	79.5	8,000				
80	69.0	10,800	72.0	9,500	75.5	8,300			74.0	10,000	76.5	8,900					78.5	7,900
85	67.5	10,600	71.0	9,300	74.0	8,200			77.0	7,500	72.5	9,800					75.5	8,800
90	66.0	10,300	69.5	9,100	72.5	8,100	75.5	7,400	71.5	9,700	74.5	8,700	77.5	7,800	78.5	7,100		
95	65.0	10,100	68.0	8,900	71.0	8,000	74.0	7,400	70.5	9,600	73.0	8,500	76.0	7,700				
100	63.5	9,900	66.5	8,800	69.5	7,900	72.5	7,300	69.5	9,400	72.0	8,400	75.0	7,600			77.5	7,100
105	62.0	9,700	65.0	8,600	68.0	7,800	71.0	7,300	68.0	9,300	71.0	8,300	73.5	7,500	76.0	7,000		
110	60.0	9,300	63.5	8,500	66.5	7,700	69.0	7,200	67.0	9,100	69.5	8,200	72.5	7,400	75.0	7,000		
115	58.5	8,700	62.0	8,300	65.0	7,600	67.5	7,200	65.5	8,900	68.5	8,100	71.0	7,400	73.5	7,000		
120	56.5	8,200	60.0	8,200	63.5	7,500	65.5	7,100	64.0	8,300	67.0	8,000	70.0	7,300	72.0	6,900		
125	55.0	7,700	58.5	7,900	61.5	7,400	64.0	7,100	62.5	7,700	66.0	7,900	68.5	7,200	71.0	6,900		
130	53.0	7,200	56.5	7,400	60.0	7,400	62.0	7,000	61.0	7,100	64.5	7,600	67.5	7,200	69.5	6,900		
135	51.0	6,800	54.5	7,000	58.0	7,200	60.0	7,000	59.5	6,600	63.0	7,000	66.0	7,100	68.0	6,800		
140	49.0	6,400	52.5	6,500	56.0	6,700	58.0	6,900	58.0	6,100	61.5	6,500	64.5	6,900	66.5	6,800		
145	47.0	6,000	50.5	6,100	53.5	6,300	55.5	6,500	56.5	5,600	59.5	6,000	62.5	6,400	65.0	6,700		
150	45.0	5,600	48.5	5,800	51.5	5,900	53.0	6,100	55.0	5,200	58.0	5,600	61.0	5,900	63.0	6,200		
155	43.0	5,300	46.0	5,400	49.0	5,600	50.5	5,700	53.0	4,700	56.0	5,100	59.0	5,500	61.0	5,700		
160	40.5	5,000	44.0	5,100	46.5	5,200	47.5	5,300	51.0	4,100	54.5	4,700	57.5	5,000	59.0	5,200		
165	38.0	4,700	41.5	4,800	44.0	4,900			49.5	3,600	52.5	4,200	55.5	4,600	57.0	4,800		
170	35.5	4,400	38.5	4,500	41.0	4,600			47.5	3,200	50.5	3,700	53.5	4,100	55.0	4,300		
175	32.5	4,100	35.5	4,200	37.5	4,300			45.5	2,700	48.5	3,200	51.0	3,600	52.5	3,800		
180	29.5	3,800	32.5	4,000	34.0	4,100			43.5	2,300	46.5	2,700	49.0	3,100	50.0	3,200		
185	25.5	3,500	28.5	3,700					41.5	1,900	44.5	2,300	46.5	2,600	47.5	2,700		
190	21.0	3,100	24.0	3,200					39.0	1,500	42.0	1,900	44.5	2,200	45.0	2,200		
195	15.0	2,800	16.5	2,800					37.0	1,200	40.0	1,500	42.0	1,700				
200									37.5	1,200	39.0	1,300						
Min.Bm. Ang./Cap.	11.5		11.5		11.0		12.0		36.0		37.0		37.0		37.0			
Radius (ft)	196.8		195.8		190.8		187.0		196.7		201.3		203.3		202.5			
Maximum Boom Length At 0° Boom Angle (ft)		147																



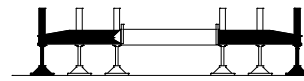
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds****55.0' Offset Fly**

2°, 15°, 30°, 45°

**Full**

45,000 lb



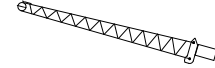
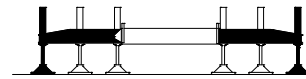
Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
35	78.5	15,200														
40	77.0	14,800														
45	75.5	14,300	79.5	12,000					79.0	13,100						
50	74.0	13,800	78.0	11,600					78.0	12,800						
55	72.5	13,400	76.0	11,300					76.5	12,500						
60	71.0	12,900	74.5	10,900	78.5	9,300			75.5	12,200	78.5	10,500				
65	69.5	12,500	73.0	10,600	77.0	9,100			74.0	11,900	77.5	10,300				
70	67.5	12,100	71.5	10,300	75.5	8,900	79.0	8,000	73.0	11,600	76.0	10,000	79.5	8,700		
75	66.0	11,700	70.0	10,000	73.5	8,700	77.0	7,900	71.5	11,400	74.5	9,800	78.0	8,500		
80	64.5	11,300	68.0	9,800	72.0	8,500	75.0	7,800	70.0	11,100	73.5	9,600	76.5	8,400	79.5	7,600
85	62.5	10,900	66.5	9,500	70.0	8,400	73.5	7,700	69.0	10,800	72.0	9,400	75.5	8,300	78.0	7,500
90	61.0	10,600	64.5	9,300	68.5	8,200	71.5	7,600	67.5	10,600	70.5	9,200	74.0	8,100	76.5	7,500
95	59.0	10,300	62.5	9,100	66.5	8,100	69.5	7,500	66.0	10,300	69.0	9,000	72.5	8,000	75.0	7,400
100	57.0	10,000	61.0	8,800	64.5	8,000	67.5	7,400	64.5	10,100	68.0	8,900	71.0	7,900	73.5	7,300
105	55.5	9,700	59.0	8,700	62.5	7,800	65.5	7,400	63.0	9,800	66.5	8,700	69.5	7,800	72.0	7,300
110	53.5	9,400	57.0	8,500	60.5	7,700	63.0	7,300	61.5	9,600	65.0	8,500	68.0	7,700	70.5	7,200
115	51.5	9,200	55.0	8,300	58.5	7,600	61.0	7,300	60.0	9,200	63.5	8,400	66.5	7,600	69.0	7,200
120	49.0	8,900	53.0	8,100	56.5	7,600	58.5	7,200	58.5	8,500	61.5	8,200	65.0	7,500	67.0	7,200
125	47.0	8,700	50.5	8,000	54.0	7,500	56.0	7,200	56.5	7,900	60.0	8,100	63.0	7,500	65.5	7,100
130	44.5	8,300	48.5	7,900	51.5	7,400	53.5	7,200	55.0	7,300	58.5	7,700	61.5	7,400	63.5	7,100
135	42.0	7,800	46.0	7,700	49.0	7,400	50.5	7,200	53.0	6,700	56.5	7,100	59.5	7,300	61.5	7,000
140	39.5	7,400	43.0	7,500	46.0	7,300	47.5	7,200	51.0	6,200	54.5	6,600	57.5	7,000	60.0	7,000
145	36.5	7,000	40.5	7,100	43.0	7,200			49.0	5,500	52.5	6,100	55.5	6,400	57.5	6,700
150	33.5	6,600	37.0	6,700	39.5	6,800			47.0	4,900	50.5	5,500	53.5	5,900	55.5	6,100
155	30.0	6,000	33.5	6,300	36.0	6,400			44.5	4,300	48.0	4,900	51.0	5,300	52.5	5,600
160	26.0	5,500	29.5	5,700	31.0	5,800			42.5	3,800	46.0	4,300	48.5	4,700	50.0	4,900
165	21.0	5,000	24.0	5,100					40.0	3,300	43.5	3,700	46.0	4,100	47.0	4,200
170	14.0	4,500	16.0	4,600					37.5	2,800	41.0	3,200	43.5	3,500		
175									35.0	2,400	38.0	2,700	40.5	3,000		
180									32.0	1,900	35.0	2,300	37.0	2,500		
185									29.0	1,600	32.0	1,800	33.5	2,000		
190									25.5	1,200	28.0	1,400				
Min.Bm. Ang./Cap.	0.0	2,100	0.0	2,200	0.0	2,400	0.0	2,800	24.0		24.5		24.0		16.5	
Radius (ft)	172.1		171.4		168.1		162.4		191.7		193.8		194.0		186.1	
Maximum Boom Length At 0° Boom Angle (ft)		150														



PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
73.0' Offset Fly

2°, 15°, 30°, 45°

Full
45,000 lb


Load Radius (ft)	163' Boom								195.3' Boom								
	2°		15°		30°		45°		2°		15°		30°		45°		
55	79.0	8,800															
60	78.0	8,800															
65	77.0	8,800							79.0	6,700							
70	76.0	8,800	78.5	8,800					78.0	6,700							
75	75.0	8,800	77.5	8,700					77.0	6,700							
80	74.0	8,800	76.5	8,600					76.5	6,700							
85	73.0	8,800	75.5	8,500	78.5	7,700			75.5	6,700	78.0	6,800					
90	72.0	8,800	74.5	8,400	77.5	7,600			74.5	6,700	77.0	6,800					
95	70.5	8,800	73.0	8,300	76.0	7,500	78.5	6,800	74.0	6,700	76.5	6,800					
100	69.5	8,800	72.0	8,200	75.0	7,400	77.5	6,600	73.0	6,700	75.5	6,800	78.5	6,900			
105	68.5	8,600	71.0	8,100	73.5	7,200	76.0	6,500	72.0	6,700	74.5	6,800	77.5	6,900			
110	67.0	8,000	69.5	8,000	72.5	7,000	74.5	6,300	71.5	6,700	73.5	6,800	76.5	6,800	78.5	6,200	
115	65.5	7,500	68.5	7,700	71.0	6,800	73.5	6,100	70.5	6,700	72.5	6,800	75.5	6,800	77.5	6,100	
120	64.0	6,900	67.0	7,200	69.5	6,600	72.0	6,000	69.0	6,200	71.5	6,600	74.5	6,700	76.5	6,000	
125	62.5	6,500	65.5	6,700	68.5	6,400	70.5	5,900	67.5	5,600	70.5	6,000	73.5	6,500	75.0	5,800	
130	61.0	6,000	64.0	6,200	67.0	6,200	69.0	5,700	66.5	5,000	69.0	5,400	72.0	6,000	74.0	5,700	
135	59.5	5,600	62.5	5,800	65.5	6,100	67.5	5,600	65.0	4,500	67.5	4,900	70.5	5,400	73.0	5,600	
140	58.0	5,200	60.5	5,400	64.0	5,700	66.0	5,500	63.5	4,000	66.5	4,400	69.5	4,900	71.5	5,300	
145	56.5	4,800	59.0	5,000	62.0	5,300	64.5	5,400	62.5	3,600	65.0	4,000	68.0	4,400	70.0	4,800	
150	55.0	4,400	57.5	4,600	60.5	4,900	62.5	5,100	61.0	3,100	63.5	3,500	66.5	3,900	68.5	4,300	
155	53.0	4,100	56.0	4,300	59.0	4,500	61.0	4,700	59.5	2,700	62.0	3,100	65.0	3,500	67.0	3,800	
160	51.5	3,800	54.0	4,000	57.0	4,200	59.0	4,300	58.5	2,400	60.5	2,700	63.5	3,100	65.5	3,400	
165	49.5	3,500	52.5	3,700	55.0	3,900	57.0	4,000	57.0	2,000	59.5	2,300	62.0	2,700	64.0	3,000	
170	48.0	3,200	50.5	3,400	53.0	3,600	55.0	3,700	55.5	1,600	58.0	2,000	60.5	2,300	62.5	2,600	
175	46.0	2,900	48.5	3,100	51.0	3,300	52.5	3,400	54.0	1,300	56.5	1,600	59.0	2,000	61.0	2,200	
180	44.0	2,700	46.5	2,800	49.0	3,000	50.5	3,100				55.0	1,300	57.5	1,600	59.0	1,800
185	42.0	2,400	44.5	2,600	47.0	2,700	48.0	2,800						56.0	1,300	57.5	1,500
190	40.0	2,200	42.5	2,300	44.5	2,500	45.5	2,500									
195	37.5	2,000	40.0	2,100	42.0	2,200											
200	35.0	1,800	37.5	1,900	39.5	2,000											
205	32.5	1,600	35.0	1,700	36.5	1,800											
210	29.5	1,400	32.0	1,500	33.5	1,600											
215			28.5	1,300													
Min.Bm. Ang./Cap.	26.5		26.0		26.0		20.5		53.0		54.0		55.0		56.0		
Radius (ft)	215.0		218.3		218.3		212.0		178.3		183.3		188.3		190.0		
Maximum Main Boom Length At 0° Boom Angle (ft)		150															



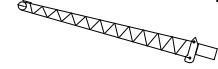
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

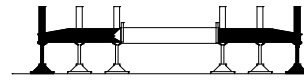
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Rated Lifting Capacities In Pounds

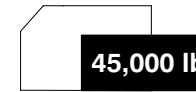
73.0' Offset Fly



2°, 15°, 30°, 45°



Full



45,000 lb



Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
50	79.0	10,400														
55	78.0	10,400														
60	77.0	10,400							79.0	8,200						
65	76.0	10,400	78.5	9,500					78.0	8,200						
70	75.0	10,300	77.5	9,400					77.0	8,200						
75	73.5	10,200	76.0	9,300					76.0	8,200	78.5	8,300				
80	72.5	10,000	75.0	9,100	78.5	8,100			75.5	8,200	78.0	8,300				
85	71.5	9,900	74.0	9,000	77.0	8,000			74.5	8,200	77.0	8,300				
90	70.0	9,700	72.5	8,800	76.0	7,900	78.5	7,100	73.5	8,200	76.0	8,200	78.5	7,500		
95	69.0	9,600	71.5	8,700	74.5	7,700	77.0	6,900	72.5	8,200	75.0	8,100	77.5	7,400		
100	67.5	9,400	70.0	8,600	73.0	7,500	75.5	6,700	71.5	8,200	74.0	8,100	76.5	7,400	79.0	6,700
105	66.5	9,300	68.5	8,300	71.5	7,200	74.0	6,500	70.5	8,200	73.0	8,000	75.5	7,300	78.0	6,500
110	65.0	8,700	67.5	8,000	70.5	7,000	72.5	6,400	69.5	8,200	72.0	7,900	74.5	7,100	76.5	6,400
115	63.5	8,100	66.0	7,700	69.0	6,800	71.0	6,200	68.5	8,200	71.0	7,800	73.5	6,900	75.5	6,200
120	61.5	7,600	64.5	7,500	67.5	6,600	69.5	6,000	67.5	8,000	69.5	7,700	72.0	6,700	74.0	6,100
125	60.0	7,100	63.0	7,200	66.0	6,400	68.0	5,900	66.0	7,400	68.5	7,500	71.0	6,500	73.0	5,900
130	58.5	6,600	61.5	6,800	64.5	6,200	66.5	5,800	64.5	6,800	67.5	7,300	69.5	6,400	71.5	5,800
135	57.0	6,200	59.5	6,300	62.5	6,100	65.0	5,700	63.0	6,300	66.0	6,700	68.5	6,200	70.5	5,700
140	55.0	5,700	58.0	5,900	61.0	5,900	63.0	5,600	62.0	5,800	64.5	6,200	67.0	6,100	69.0	5,600
145	53.5	5,400	56.0	5,500	59.5	5,800	61.5	5,500	60.5	5,300	63.0	5,700	66.0	5,900	67.5	5,500
150	51.5	5,000	54.5	5,200	57.5	5,400	59.5	5,400	59.0	4,900	61.5	5,200	64.5	5,600	66.5	5,400
155	50.0	4,700	52.5	4,800	55.5	5,000	57.5	5,200	57.5	4,400	60.0	4,800	63.0	5,200	65.0	5,300
160	48.0	4,300	50.5	4,500	53.5	4,700	55.5	4,800	55.5	4,000	58.5	4,400	61.5	4,700	63.5	5,000
165	46.0	4,000	48.5	4,200	51.5	4,300	53.0	4,500	54.0	3,500	56.5	4,000	59.5	4,300	61.5	4,600
170	44.0	3,700	46.5	3,900	49.5	4,000	51.0	4,100	52.5	3,000	55.0	3,500	58.0	3,900	60.0	4,200
175	41.5	3,500	44.5	3,600	47.0	3,700	48.0	3,800	50.5	2,500	53.5	3,000	56.0	3,500	58.0	3,800
180	39.5	3,200	42.0	3,300	44.5	3,500	45.5	3,500	49.0	2,100	51.5	2,500	54.5	3,000	56.0	3,300
185	37.0	3,000	39.5	3,100	42.0	3,200			47.5	1,700	50.0	2,100	52.5	2,500	54.0	2,800
190	34.5	2,700	37.0	2,800	39.0	2,900			45.5	1,300	48.0	1,700	50.5	2,100	52.0	2,300
195	31.5	2,500	34.0	2,600	36.0	2,700					46.0	1,300	48.5	1,700	49.5	1,800
200	28.5	2,200	31.0	2,400	32.5	2,500							46.5	1,300	47.5	1,400
205	24.5	1,900	27.0	2,000												
210	20.0	1,600	22.0	1,700												
215	11.5	1,300														
Min.Bm. Ang./Cap.	8.5		8.0		0.0	1,200	0.0	1,400	44.0		44.5		45.5		45.5	
Radius (ft)	215.4		214.4		210.7		204.3		193.3		198.3		202.5		203.8	
Maximum Main Boom Length At 0° Boom Angle (ft)		147														



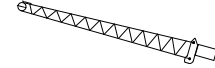
PORTLAND OFFICE: 503.283.3111

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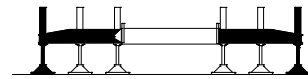
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Rated Lifting Capacities In Pounds

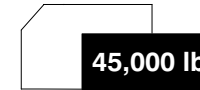
73.0' Offset Fly



2°, 15°, 30°, 45°



Full



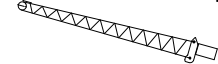
Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
40	79.0	13,300														
45	78.0	13,000														
50	76.5	12,800							79.0	11,200						
55	75.5	12,500	78.5	11,000					78.0	11,200						
60	74.0	12,200	77.0	10,800					77.0	11,100						
65	72.5	11,900	75.5	10,500	79.0	9,100			76.0	10,900	78.5	9,900				
70	71.0	11,600	74.0	10,200	77.5	8,900			75.0	10,800	77.5	9,700				
75	70.0	11,300	72.5	10,000	76.5	8,700			73.5	10,600	76.0	9,500	79.5	8,400		
80	68.5	11,000	71.0	9,800	75.0	8,500	78.0	7,700	72.5	10,400	75.0	9,400	78.0	8,300		
85	67.0	10,700	69.5	9,600	73.5	8,400	76.5	7,600	71.5	10,200	74.0	9,200	77.0	8,200		
90	65.5	10,500	68.0	9,300	71.5	8,100	74.5	7,300	70.0	10,100	72.5	9,100	75.5	8,000	78.0	7,300
95	63.5	10,000	66.5	8,900	70.0	7,800	73.0	7,100	69.0	9,900	71.5	8,900	74.5	7,900	77.0	7,100
100	62.0	9,500	65.0	8,500	68.5	7,500	71.0	6,900	67.5	9,700	70.0	8,800	73.0	7,700	75.5	6,900
105	60.5	9,100	63.5	8,200	66.5	7,200	69.5	6,700	66.5	9,500	69.0	8,600	71.5	7,500	74.0	6,700
110	58.5	8,700	61.5	7,800	65.0	7,000	67.5	6,500	65.0	9,400	67.5	8,300	70.5	7,200	72.5	6,600
115	57.0	8,300	60.0	7,600	63.0	6,800	65.5	6,300	64.0	9,100	66.0	8,000	69.0	7,000	71.5	6,400
120	55.0	8,000	58.0	7,300	61.5	6,600	64.0	6,200	62.5	8,400	64.5	7,700	67.5	6,800	70.0	6,200
125	53.5	7,700	56.0	7,000	59.5	6,400	62.0	6,000	60.5	7,800	63.5	7,500	66.0	6,600	68.5	6,100
130	51.5	7,400	54.0	6,800	57.5	6,200	59.5	5,900	59.0	7,200	62.0	7,300	64.5	6,400	66.5	6,000
135	49.5	7,200	52.0	6,600	55.5	6,000	57.5	5,800	57.5	6,600	60.5	7,000	63.0	6,300	65.0	5,800
140	47.5	6,700	50.0	6,400	53.5	5,900	55.5	5,700	56.0	6,100	58.5	6,500	61.5	6,100	63.5	5,700
145	45.0	6,300	48.0	6,200	51.0	5,800	53.0	5,600	54.0	5,500	57.0	6,000	60.0	6,000	62.0	5,600
150	43.0	5,900	46.0	6,000	48.5	5,600	50.5	5,500	52.5	4,900	55.0	5,500	58.0	5,800	60.0	5,500
155	40.5	5,600	43.5	5,700	46.0	5,600	47.5	5,500	50.5	4,300	53.5	4,800	56.5	5,400	58.5	5,400
160	37.5	5,200	40.5	5,400	43.5	5,500			48.5	3,700	51.5	4,200	54.5	4,800	56.5	5,200
165	35.0	4,900	38.0	5,000	40.5	5,200			46.5	3,200	49.5	3,700	52.5	4,200	54.0	4,500
170	32.0	4,400	34.5	4,700	37.0	4,800			44.5	2,700	47.5	3,200	50.0	3,600	51.5	3,900
175	28.5	4,000	31.0	4,200	33.0	4,400			42.5	2,300	45.0	2,700	48.0	3,100	49.0	3,300
180	24.0	3,600	27.0	3,700					40.5	1,900	43.0	2,200	45.5	2,600	46.5	2,800
185	19.0	3,200	21.5	3,300					38.0	1,500	40.5	1,800	43.0	2,100		
190	8.5	2,800									38.5	1,400	40.5	1,700		
195													37.5	1,300		
Min.Bm. Ang./Cap.	0.0	1,800	0.0	1,800	0.0	2,000	0.0	2,200	36.0		36.5		36.5		36.0	
Radius (ft)	190.1		189.2		185.6		179.5		190.0		193.8		197.0		197.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		134														



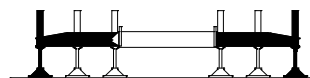
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
91.0' Offset Fly


2°, 15°, 30°, 45°


Full
45,000 lb


Load Radius (ft)	163' Boom								195.3' Boom								
	2°		15°		30°		45°		2°		15°		30°		45°		
60	79.0	6,800							79.0	5,200							
65	78.0	6,800															
70	77.5	6,800															
75	76.5	6,800	79.0	6,800					78.5	5,200							
80	75.5	6,800	78.0	6,800					77.5	5,200							
85	74.5	6,800	77.0	6,800					77.0	5,200							
90	73.5	6,800	76.0	6,800	79.0	6,200			76.0	5,200	78.5	5,200					
95	73.0	6,800	75.0	6,700	78.0	5,900			75.5	5,200	77.5	5,200					
100	72.0	6,800	74.0	6,400	76.5	5,700			79.0	5,200	74.5	5,200					77.0
105	70.5	6,700	73.0	6,100	75.5	5,500	78.0	5,000	74.0	5,200	76.0	5,200	79.0	5,300			
110	69.5	6,500	71.5	5,900	74.5	5,200	76.5	4,800	73.0	5,200	75.5	5,200	78.0	5,200			
115	68.5	6,200	70.5	5,600	73.0	5,000	75.5	4,700	72.5	5,200	74.5	5,200	77.0	5,000			79.0
120	67.0	5,900	69.5	5,400	72.0	4,800	74.0	4,500	71.5	5,200	73.5	5,200	76.0	4,900	78.0	4,400	
125	66.0	5,600	68.0	5,200	70.5	4,700	73.0	4,300	70.5	4,800	73.0	5,200	75.0	4,700	77.0	4,300	
130	64.5	5,100	67.0	5,000	69.5	4,500	71.5	4,200	69.0	4,300	71.5	4,800	74.0	4,500	76.0	4,200	
135	63.0	4,700	65.5	4,800	68.0	4,300	70.0	4,100	68.0	3,800	70.5	4,300	73.0	4,400	75.0	4,000	
140	61.5	4,400	64.5	4,600	67.0	4,200	69.0	3,900	66.5	3,400	69.0	3,800	72.0	4,200	73.5	3,900	
145	60.5	4,000	63.0	4,300	65.5	4,000	67.5	3,800	65.5	2,900	68.0	3,300	70.5	3,800	72.5	3,800	
150	59.0	3,700	61.5	3,900	64.0	3,900	66.0	3,700	64.0	2,500	66.5	2,900	69.5	3,400	71.5	3,700	
155	57.5	3,400	60.0	3,600	63.0	3,800	64.5	3,600	63.0	2,100	65.0	2,500	68.0	3,000	70.0	3,300	
160	56.0	3,100	58.5	3,300	61.5	3,500	63.0	3,500	61.5	1,800	64.0	2,100	66.5	2,600	69.0	2,900	
165	54.5	2,800	57.0	3,000	59.5	3,200	61.5	3,400	60.5	1,400	62.5	1,800	65.5	2,200	67.5	2,500	
170	53.0	2,500	55.5	2,700	58.0	2,900	60.0	3,100			61.5	61.5	1,400	64.0	1,800	66.0	2,100
175	51.0	2,200	53.5	2,400	56.5	2,600	58.0	2,800						62.5	1,500	64.5	1,700
180	49.5	2,000	52.0	2,200	54.5	2,400	56.5	2,500							63.0	1,400	
185	48.0	1,800	50.5	1,900	53.0	2,100	54.5	2,200									
190	46.0	1,500	48.5	1,700	51.0	1,900	52.5	2,000									
195	44.5	1,300	46.5	1,500	49.0	1,600	50.5	1,700									
200			45.0	1,300	47.0	1,400	48.0	1,500									
205					45.0	1,200	46.0	1,200									
Min.Bm. Ang./Cap.	42.5		43.5		44.0		45.0		59.0		60.0		61.0		62.0		
Radius (ft)	200.0		203.3		207.5		207.5		170.0		175.0		180.0		183.8		
Maximum Main Boom Length At 0° Boom Angle (ft)		122															



PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

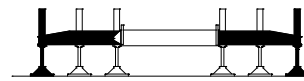
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Rated Lifting Capacities In Pounds

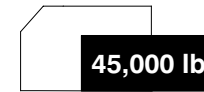
91.0' Offset Fly



2°, 15°, 30°, 45°



Full



45,000 lb



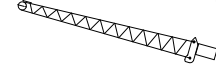
Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
55	79.0	8,000														
60	78.5	8,000														
65	77.5	8,000							79.0	6,300						
70	76.5	8,000	79.0	8,000					78.5	6,300						
75	75.5	8,000	78.0	8,000					77.5	6,300						
80	74.5	8,000	77.0	7,800					76.5	6,300	79.0	6,400				
85	73.5	8,000	76.0	7,400	78.5	6,600			76.0	6,300	78.0	6,400				
90	72.5	7,800	74.5	7,100	77.5	6,300			75.0	6,300	77.5	6,400				
95	71.0	7,400	73.5	6,700	76.0	6,000	78.5	5,600	74.0	6,300	76.5	6,400	79.0	6,000		
100	70.0	7,100	72.0	6,400	75.0	5,800	77.5	5,300	73.5	6,300	75.5	6,400	78.0	5,800		
105	68.5	6,800	71.0	6,200	73.5	5,500	76.0	5,100	72.5	6,300	74.5	6,300	77.0	5,600	79.0	5,100
110	67.5	6,500	69.5	5,900	72.5	5,300	75.0	4,900	71.5	6,300	73.5	6,000	76.0	5,300	78.0	4,900
115	66.0	6,200	68.5	5,600	71.0	5,100	73.5	4,800	70.5	6,300	72.5	5,800	75.0	5,100	77.0	4,700
120	65.0	5,900	67.0	5,400	70.0	4,900	72.0	4,600	69.5	6,200	71.5	5,600	74.0	5,000	76.0	4,600
125	63.5	5,600	65.5	5,200	68.5	4,700	70.5	4,400	68.5	5,900	70.5	5,400	73.0	4,800	75.0	4,400
130	62.0	5,400	64.5	5,000	67.0	4,500	69.5	4,300	67.5	5,700	69.5	5,100	71.5	4,600	73.5	4,300
135	60.5	5,200	63.0	4,800	65.5	4,400	68.0	4,100	66.5	5,500	68.0	5,000	70.5	4,400	72.5	4,100
140	59.5	4,900	61.5	4,600	64.5	4,200	66.5	4,000	65.0	5,100	67.0	4,800	69.5	4,300	71.5	4,000
145	57.5	4,500	60.0	4,400	63.0	4,100	65.0	3,900	63.5	4,700	66.0	4,600	68.5	4,200	70.0	3,900
150	56.0	4,200	58.5	4,300	61.5	3,900	63.5	3,800	62.5	4,200	65.0	4,400	67.0	4,000	69.0	3,800
155	54.5	3,900	57.0	4,100	60.0	3,800	61.5	3,700	61.0	3,800	63.5	4,200	66.0	3,900	67.5	3,700
160	53.0	3,600	55.5	3,800	58.5	3,700	60.0	3,600	59.5	3,300	62.0	3,800	64.5	3,800	66.5	3,600
165	51.5	3,300	54.0	3,500	56.5	3,600	58.5	3,500	58.0	2,700	60.5	3,300	63.5	3,700	65.0	3,500
170	49.5	3,000	52.0	3,200	55.0	3,400	56.5	3,400	56.5	2,300	59.0	2,800	62.0	3,400	63.5	3,400
175	47.5	2,800	50.5	2,900	53.0	3,100	54.5	3,300	55.0	1,800	57.5	2,300	60.5	2,900	62.5	3,300
180	46.0	2,500	48.5	2,700	51.0	2,800	52.5	3,000	53.5	1,400	56.0	1,900	58.5	2,400	60.5	2,800
185	44.0	2,300	46.5	2,400	49.0	2,600	50.5	2,700			54.5	1,400	57.0	2,000	59.0	2,300
190	42.0	2,100	44.5	2,200	47.0	2,300	48.0	2,400					55.5	1,500	57.0	1,800
195	40.0	1,800	42.5	2,000	44.5	2,100	45.5	2,200							55.0	1,400
200	37.5	1,400	40.0	1,700	42.5	1,900										
205			37.5	1,400	40.0	1,600										
210					37.0	1,200										
Min.Bm. Ang./Cap.	35.5		35.5		36.5		36.0		52.5		53.0		53.5		54.0	
Radius (ft)	205.0		208.8		211.3		211.0		182.9		188.8		195.0		198.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		121														



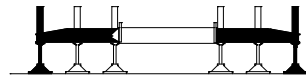
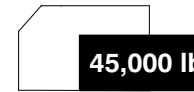
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
91.0' Offset Fly


2°, 15°, 30°, 45°


Full


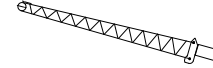
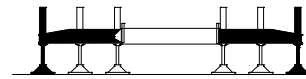
Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
50	78.0	11,000	78.5	10,000					79.0	8,600	79.0	8,700				
55	77.0	11,000							78.0	8,600						
60	76.0	11,000														
65	74.5	10,500	77.5	9,500	78.0	7,600			77.5	8,600	78.0	8,600				
70	73.5	9,900	76.0	8,900					76.5	8,600						
75	72.0	9,300	74.5	8,400					75.5	8,600						
80	70.5	8,700	73.5	8,000	76.5	7,200	78.0	6,400	74.5	8,600	77.0	8,200	79.5	7,200		
85	69.5	8,300	72.0	7,600	75.5	6,900			73.5	8,600	75.5	7,800	78.5	6,900		
90	68.0	7,800	70.5	7,200	74.0	6,500			76.5	6,100	72.5	8,300	74.5	7,400		
95	66.5	7,400	69.0	6,800	72.5	6,200	75.0	5,800	71.0	7,900	73.5	7,100	76.0	6,300	78.5	5,800
100	65.0	7,000	67.5	6,500	71.0	5,900	73.5	5,600	70.0	7,500	72.0	6,800	75.0	6,000	77.0	5,600
105	63.5	6,700	66.0	6,200	69.5	5,600	72.0	5,300	68.5	7,100	71.0	6,500	73.5	5,800	76.0	5,400
110	62.0	6,300	64.5	5,900	68.0	5,400	70.5	5,100	67.5	6,800	69.5	6,200	72.5	5,500	74.5	5,100
115	60.5	6,000	63.0	5,600	66.5	5,200	69.0	4,900	66.0	6,500	68.5	5,900	71.0	5,300	73.5	4,900
120	59.0	5,700	61.5	5,400	64.5	4,900	67.0	4,700	65.0	6,200	67.0	5,700	70.0	5,100	72.0	4,800
125	57.5	5,500	60.0	5,100	63.0	4,700	65.5	4,500	63.5	5,900	66.0	5,400	68.5	4,900	71.0	4,600
130	55.5	5,200	58.5	4,900	61.5	4,600	63.5	4,400	62.5	5,700	64.5	5,200	67.5	4,700	69.5	4,400
135	54.0	5,000	56.5	4,700	59.5	4,400	62.0	4,200	61.0	5,500	63.5	5,000	66.0	4,600	68.0	4,300
140	52.5	4,800	55.0	4,500	58.0	4,200	60.0	4,100	59.5	5,200	62.0	4,800	64.5	4,400	66.5	4,200
145	50.5	4,600	53.0	4,300	56.0	4,100	58.0	4,000	58.0	4,900	60.5	4,600	63.0	4,200	65.0	4,000
150	48.5	4,400	51.5	4,200	54.0	3,900	56.0	3,800	56.5	4,300	59.0	4,500	61.5	4,100	63.5	3,900
155	47.0	4,300	49.5	4,000	52.0	3,800	54.0	3,700	55.0	3,700	57.5	4,300	60.0	4,000	62.0	3,800
160	45.0	4,100	47.5	3,900	50.0	3,700	52.0	3,600	53.0	3,100	56.0	3,700	58.5	3,800	60.5	3,700
165	42.5	4,000	45.5	3,800	48.0	3,600	49.5	3,500	51.5	2,600	54.0	3,200	57.0	3,700	59.0	3,600
170	40.5	3,800	43.0	3,600	45.5	3,500	47.0	3,500	50.0	2,100	52.5	2,700	55.5	3,200	57.0	3,500
175	38.0	3,400	41.0	3,600	43.5	3,400			48.0	1,700	50.5	2,200	53.5	2,700	55.0	3,000
180	35.5	2,900	38.0	3,200	40.5	3,400			46.0	1,300	49.0	1,700	51.5	2,200	51.5	2,200
185	32.5	2,500	35.5	2,800	37.5	3,000					47.0	1,300	49.5	1,700	51.0	2,000
190	29.5	2,200	32.0	2,400	34.0	2,600					47.5	1,300	48.5	1,500		
195	26.0	1,800	28.5	2,000	30.0	2,100										
200	22.0	1,500	24.5	1,600												
205	16.5	1,200	18.5	1,300												
Min.Bm. Ang./Cap.	15.5		16.0		15.5		12.5		45.5		46.0		46.5		47.0	
Radius (ft)	205.5		205.6		201.7		194.1		181.2		187.4		192.0		194.0	
Maximum Main Boom Length At 0° Boom Angle (ft)		111														



PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

WWW.NESSCAMPBELL.COM

**Rated Lifting Capacities
In Pounds**
109.0' Offset Fly

2°, 15°, 30°, 45°

Full
45,000 lb

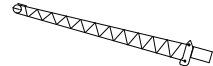

Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
65	79.5	5,200														
70	78.5	5,200														
75	78.0	5,200														
80	77.0	5,200	78.5	5,200					78.0	3,100						
85	76.0	5,200							77.5	3,100						
90	75.5	5,200														
95	74.5	5,200	76.5	4,900	78.0	4,300			77.0	3,100	77.5	3,100				
100	73.5	5,100	75.5	4,700					76.0	3,100						
105	72.5	4,800	74.5	4,400					77.0	3,100						
110	71.5	4,500	73.5	4,200	76.0	3,800	78.0	3,600	74.5	3,100	77.0	3,100	78.5	3,100		
115	70.5	4,300	72.5	4,000	75.0	3,600	77.0	3,400	74.0	3,100	76.5	3,100				
120	69.5	4,100	71.5	3,800	74.0	3,400	76.0	3,200	73.0	3,100	75.5	3,100				
125	68.0	3,900	70.0	3,600	72.5	3,300	75.0	3,100	72.5	3,100	74.5	3,100	76.5	2,700	78.5	2,400
130	67.0	3,700	69.0	3,400	71.5	3,100	73.5	2,900	71.5	2,900	73.5	2,900	76.0	2,500	77.5	2,300
135	66.0	3,500	68.0	3,200	70.5	2,900	72.5	2,800	70.5	2,500	72.5	2,700	75.0	2,400	76.5	2,200
140	64.5	3,300	67.0	3,100	69.5	2,800	71.5	2,600	69.0	2,000	71.5	2,500	74.0	2,200	76.0	2,000
145	63.5	3,100	65.5	2,900	68.0	2,600	70.0	2,500	68.0	1,600	70.5	2,100	73.0	2,100	75.0	1,900
150	62.5	2,900	64.5	2,800	67.0	2,500	69.0	2,400	67.0	1,200	69.5	1,700	72.0	2,000	74.0	1,800
155	61.0	2,600	63.0	2,600	65.5	2,400	67.5	2,300			68.5	1,300	71.0	1,700	73.0	1,600
160	59.5	2,400	62.0	2,500	64.5	2,300	66.0	2,200			70.0	1,300	72.0	1,500		
165	58.5	2,100	60.5	2,300	63.0	2,200	65.0	2,000			71.0	1,300	73.0	1,300		
170	57.0	1,800	59.5	2,000	62.0	2,100	63.5	2,000								
175	55.5	1,600	58.0	1,800	60.5	2,000	62.0	1,900								
180	54.0	1,300	56.5	1,500	59.0	1,700	60.5	1,800								
185			55.0	1,300	57.5	1,500	59.0	1,600								
190					56.0	1,200	57.5	1,400								
Min.Bm. Ang./Cap.	52.5		54.0		55.5		56.0		66.5		68.0		69.5		70.5	
Radius (ft)	185.0		188.3		192.5		195.0		151.3		157.5		162.5		167.5	
Maximum Main Boom Length At 0° Boom Angle (ft)		77														



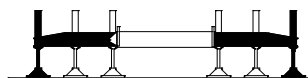
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

WWW.NESSCAMPBELL.COM

**Rated Lifting Capacities
In Pounds**
109.0' Offset Fly


2°, 15°, 30°, 45°


Full
45,000 lb


Load Radius (ft)	151' Boom								180.3' Boom									
	2°		15°		30°		45°		2°		15°		30°		45°			
65	78.5	6,200							79.5	4,800								
70	78.0	6,200																
75	77.0	6,200																
80	76.0	6,200	78.5	6,000					78.5	4,800								
85	75.0	6,100	77.5	5,600					77.5	4,800								
90	74.0	5,800	76.0	5,300					79.0	4,900							77.0	4,800
95	73.0	5,400	75.0	5,000	78.0	4,600		4,100	76.0	4,800	78.0	4,600	79.5	3,800				
100	72.0	5,100	74.0	4,800	76.5	4,400			79.0	4,100	75.5	4,800					77.0	4,300
105	70.5	4,900	73.0	4,500	75.5	4,100			78.0	3,900	74.5	4,500					76.5	4,100
110	69.5	4,600	71.5	4,300	74.5	3,900	76.5	3,700	73.5	4,200	75.5	3,800	77.5	3,400	80.0	3,100		
115	68.5	4,300	70.5	4,000	73.0	3,700	75.5	3,500	72.5	4,000	74.5	3,600	76.5	3,200	79.0	2,900		
120	67.0	4,100	69.5	3,800	72.0	3,500	74.0	3,300	71.5	3,800	73.5	3,400	76.0	3,000	78.0	2,800		
125	66.0	3,900	68.0	3,600	71.0	3,300	73.0	3,200	70.5	3,500	72.5	3,200	75.0	2,800	77.0	2,600		
130	64.5	3,700	67.0	3,400	69.5	3,200	71.5	3,000	69.5	3,300	71.5	3,000	74.0	2,700	75.5	2,400		
135	63.5	3,500	65.5	3,300	68.5	3,000	70.5	2,800	68.5	3,100	70.5	2,800	73.0	2,500	74.5	2,300		
140	62.5	3,300	64.5	3,100	67.0	2,800	69.0	2,700	67.5	3,000	69.5	2,700	71.5	2,300	73.5	2,100		
145	61.0	3,100	63.0	2,900	66.0	2,700	68.0	2,600	66.5	2,800	68.5	2,500	70.5	2,200	72.5	2,000		
150	59.5	3,000	62.0	2,800	64.5	2,600	66.5	2,400	65.5	2,600	67.5	2,400	69.5	2,100	71.5	1,900		
155	58.5	2,800	60.5	2,600	63.0	2,400	65.0	2,300	64.5	2,500	66.5	2,200	68.5	1,900	70.5	1,800		
160	57.0	2,700	59.0	2,500	61.5	2,300	63.5	2,200	63.5	2,300	65.0	2,100	67.5	1,800	69.5	1,600		
165	55.5	2,600	58.0	2,400	60.5	2,200	62.0	2,100	62.0	2,000	64.0	1,900	66.5	1,700	68.0	1,500		
170	54.0	2,300	56.5	2,300	59.0	2,100	60.5	2,000	60.5	1,700	63.0	1,800	65.5	1,600	67.0	1,400		
175	52.5	2,100	55.0	2,100	57.5	2,000	59.0	1,900	59.5	1,300	62.0	1,700	64.0	1,500	66.0	1,300		
180	51.0	1,800	53.5	2,000	56.0	1,900	57.5	1,800			60.5	1,300	63.0	1,400	64.5	1,200		
185	49.5	1,600	52.0	1,800	54.5	1,800	56.0	1,800					62.0	1,300				
190	48.0	1,400	50.0	1,500	52.5	1,700	54.0	1,700										
195	46.0	1,200	48.5	1,300	51.0	1,500	52.5	1,600										
200					49.0	1,200	50.5	1,300										
Min.Bm. Ang./Cap.	45.5		46.5		48.0		48.0		58.5		60.0		61.0		63.5			
Radius (ft)	197.5		200.0		202.5		205.0		178.3		183.3		188.3		185.0			
Maximum Main Boom Length At 0° Boom Angle (ft)		76																



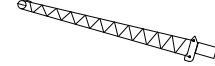
PORTLAND OFFICE: 503.283.3111

SEATTLE OFFICE: 206.784.1054

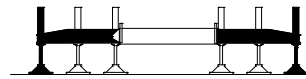
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Rated Lifting Capacities In Pounds

109.0' Offset Fly



2°, 15°, 30°, 45°



Full

45,000 lb



Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
55	78.5	8,500														
60	77.5	8,500							79.5	6,700						
65	76.5	8,200	79.0	7,600					78.5	6,700						
70	75.0	7,600	77.5	7,100					77.5	6,700						
75	74.0	7,100	76.5	6,700					77.0	6,700	79.0	6,700				
80	72.5	6,700	75.0	6,300	78.5	5,900			76.0	6,700	78.0	6,400				
85	71.5	6,300	74.0	5,900	77.0	5,500			75.0	6,500	77.0	6,000				
90	70.0	5,900	72.5	5,500	75.5	5,200	78.5	5,000	74.0	6,100	76.0	5,700	78.5	5,200		
95	69.0	5,500	71.5	5,200	74.5	4,900	77.0	4,700	73.0	5,800	75.0	5,400	77.5	4,900		
100	67.5	5,200	70.0	4,900	73.0	4,600	75.5	4,400	71.5	5,500	74.0	5,100	76.5	4,600	78.5	4,400
105	66.0	4,900	68.5	4,600	71.5	4,300	74.0	4,200	70.5	5,200	72.5	4,800	75.5	4,400	77.5	4,100
110	65.0	4,600	67.5	4,300	70.5	4,100	73.0	3,900	69.5	4,900	71.5	4,500	74.0	4,200	76.5	3,900
115	63.5	4,300	66.0	4,100	69.0	3,800	71.5	3,700	68.5	4,600	70.5	4,300	73.0	3,900	75.0	3,700
120	62.0	4,100	64.5	3,900	67.5	3,600	70.0	3,500	67.0	4,400	69.5	4,100	72.0	3,700	74.0	3,500
125	60.5	3,900	63.0	3,600	66.0	3,400	68.5	3,300	66.0	4,100	68.0	3,800	70.5	3,500	73.0	3,300
130	59.0	3,600	61.5	3,400	64.5	3,200	67.0	3,100	65.0	3,900	67.0	3,600	69.5	3,400	71.5	3,200
135	57.5	3,400	60.0	3,200	63.0	3,100	65.5	3,000	63.5	3,700	66.0	3,500	68.5	3,200	70.5	3,000
140	56.0	3,200	58.5	3,100	61.5	2,900	64.0	2,800	62.5	3,500	64.5	3,300	67.0	3,000	69.0	2,900
145	54.5	3,100	57.0	2,900	60.0	2,700	62.0	2,700	61.0	3,400	63.5	3,100	66.0	2,900	68.0	2,700
150	53.0	2,900	55.5	2,700	58.5	2,600	60.5	2,500	60.0	3,200	62.0	3,000	64.5	2,700	66.5	2,600
155	51.5	2,700	54.0	2,600	57.0	2,500	58.5	2,400	58.5	3,000	61.0	2,800	63.5	2,600	65.0	2,500
160	50.0	2,600	52.5	2,500	55.0	2,300	57.0	2,300	57.5	2,900	59.5	2,700	62.0	2,500	64.0	2,400
165	48.0	2,500	50.5	2,300	53.5	2,200	55.0	2,200	56.0	2,700	58.0	2,500	60.5	2,300	62.5	2,200
170	46.5	2,300	49.0	2,200	51.5	2,100	53.0	2,100	54.5	2,600	57.0	2,400	59.0	2,200	61.0	2,100
175	44.5	2,200	47.0	2,100	49.5	2,000	51.0	2,000	53.0	2,200	55.5	2,300	58.0	2,100	59.5	2,000
180	42.5	2,100	45.0	2,000	47.5	1,900	49.0	1,900	51.5	1,900	54.0	2,200	56.5	2,000	58.0	2,000
185	40.5	2,000	43.0	1,900	45.5	1,800	46.5	1,800	50.0	1,500	52.5	1,900	55.0	1,900	56.5	1,900
190	38.5	2,000	41.0	1,800	43.5	1,800					51.0	1,600	53.5	1,800	54.5	1,800
195	36.5	1,900	38.5	1,800	41.0	1,700					49.0	1,200	51.5	1,600	53.0	1,700
200	34.0	1,800	36.5	1,700	38.5	1,700							49.5	1,200	51.0	1,400
205	31.0	1,700	33.5	1,700	35.5	1,700										
210	28.0	1,500	30.5	1,600	32.0	1,600										
215	25.0	1,200	27.0	1,300												
Min.Bm. Ang./Cap.	23.5		24.0		23.5		24.5		48.5		48.5		49.0		49.5	
Radius (ft)	216.7		218.3		218.8		210.9		190.0		196.3		201.3		203.8	
Maximum Main Boom Length At 0° Boom Angle (ft)		73														



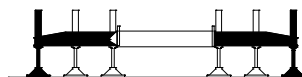
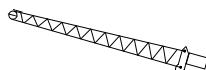
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Rated Lifting Capacities In Pounds

18.0' Fly Extension



Full

45,000 lb



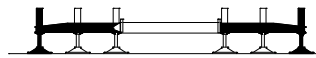
Load Radius (ft)	163.0' Boom		195.3' Boom		151.0' Boom		180.3' Boom		125.7' Boom		155.0' Boom	
	Boom Mode EM1				Boom Mode EM2				Boom Mode EM3			
25									78.5	34,500		
30									77.0	34,500	79.5	28,300
35	77.5	16,600			77.5	24,600	79.5	16,500	75.0	34,500	78.5	28,300
40	76.5	16,600	78.5	13,400	76.0	24,600	78.0	16,500	73.0	33,600	77.0	28,300
45	75.0	16,600	77.5	13,400	75.0	24,600	77.0	16,500	71.0	30,500	75.5	28,300
50	73.5	16,600	76.5	13,400	73.5	24,600	76.0	16,500	69.0	27,900	74.0	27,700
55	72.0	16,600	75.5	13,400	71.5	22,800	74.5	16,500	66.5	25,600	72.5	25,200
60	71.0	16,600	74.5	13,400	69.5	20,300	73.5	16,500	64.5	23,600	70.5	23,100
65	69.5	16,600	73.5	13,400	68.0	19,800	72.0	16,500	62.0	21,800	69.0	21,100
70	68.0	16,600	72.0	13,400	66.0	18,400	71.0	16,500	60.0	20,500	67.0	19,700
75	66.0	16,200	71.0	13,400	64.0	17,100	69.5	16,500	57.5	19,100	65.0	18,100
80	64.5	15,000	70.0	13,400	62.0	15,900	68.0	16,200	55.0	17,800	63.0	16,700
85	62.5	14,000	68.5	13,400	60.0	14,800	66.5	15,000	52.5	16,600	61.5	15,400
90	60.5	13,100	67.5	13,400	58.0	13,900	65.0	13,900	49.5	15,500	59.5	14,200
95	59.0	12,200	66.0	12,400	56.0	13,000	63.0	12,900	47.0	14,500	57.0	13,100
100	57.0	11,400	64.5	11,500	53.5	12,200	61.5	12,000	44.0	13,600	55.0	12,100
105	55.0	10,700	62.5	10,600	51.5	11,400	59.5	11,100	41.0	12,800	53.0	11,200
110	53.0	10,000	61.0	9,900	49.0	10,700	58.0	10,300	37.5	12,000	50.5	10,300
115	50.5	9,400	59.5	9,100	46.5	10,100	56.0	9,500	33.5	10,900	48.5	9,400
120	48.5	8,800	57.5	8,400	44.0	9,500	54.0	8,800	29.5	9,900	45.5	8,400
125	46.0	8,200	56.0	7,800	41.5	8,900	52.0	8,200	24.5	9,000	43.0	7,400
130	43.5	7,700	54.0	7,200	38.5	8,400	50.0	7,400	18.0	8,100	40.5	6,600
135	41.0	7,200	52.5	6,600	35.5	7,900	48.0	6,600	5.5	7,400	37.5	5,800
140	38.5	6,800	50.5	5,900	32.0	7,400	45.5	5,900			34.0	5,100
145	35.5	6,400	48.5	5,200	28.0	6,700	43.5	5,300			30.5	4,400
150	32.5	6,000	46.5	4,600	23.5	6,100	41.0	4,600			27.0	3,800
155	29.0	5,500	44.0	4,100	18.0	5,500	38.5	4,100			22.0	3,200
160	25.0	5,000	42.0	3,500	7.5	5,000	35.5	3,500			16.0	2,700
165	20.0	4,500	39.5	3,000			32.5	3,000				
170	13.0	4,100	37.0	2,500			29.5	2,600				
175			34.5	2,100			25.5	2,100				
180			31.5	1,700			21.5	1,700				
185			28.0	1,300			15.5	1,400				
Min.Bm. Ang./Cap.	0.0	1,100	26.0		0.0	2,200	12.0		0.0	4,800	0.0	1,800
Radius (ft)	172.4		187.9		160.4		186.1		135.2		164.5	
Maximum Main Boom Length At 0° Boom Angle (ft)		163			166				155			



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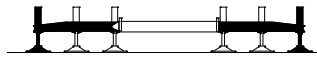
**Rated Lifting Capacities
In Pounds****Full****60,000 lb**

Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	°	360°	°	360°	°	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	51,000
12	66.5	240,000	72.0	77,300	76.5	51,000
15	61.5	204,500	69.0	77,300	73.5	51,000
20	53.0	151,600	63.0	77,300	69.5	51,000
25	43.0	118,800	56.5	77,300	65.0	51,000
30	29.5	96,400	50.0	77,300	60.0	51,000
35			42.0	77,300	55.0	51,000
40			32.5	72,200	49.5	46,400
45			18.0	62,600	43.5	42,500
50					37.0	39,400
55					28.5	36,600
60					15.5	34,400
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	13,300
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
	°	360°	°	360°	°	360°
15	76.5	46,600				
20	73.5	46,600	76.0	46,700	78.0	37,000
25	70.0	46,600	73.5	46,700	75.5	37,000
30	66.5	46,600	70.5	44,200	73.0	37,000
35	62.5	46,600	67.0	39,900	70.5	37,000
40	58.5	43,200	64.0	36,200	68.0	36,900
45	54.5	39,700	60.5	33,000	65.5	33,800
50	50.0	36,500	57.5	30,300	62.5	31,000
55	45.0	33,700	53.5	27,900	59.5	28,600
60	39.5	31,300	50.0	25,900	56.5	26,500
65	33.5	29,200	46.0	24,100	53.5	24,700
70	26.0	27,400	41.5	22,500	50.5	23,100
75	14.5	25,800	36.5	21,100	47.0	21,600
80			31.0	19,900	43.0	20,400
85			24.0	18,800	39.0	19,200
90			13.0	17,800	34.5	18,100
95					29.0	17,100
100					22.5	16,200
105					12.5	15,400
Min.Bm. Ang./Cap.	0.0	10,800	0.0	8,700	0.0	7,100
Radius (ft)	76.5		91.5		106.5	



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**Rated Lifting Capacities
In Pounds**

Full
60,000 lb


Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
		360°		360°		360°
25	77.0	31,400				
30	75.0	31,400	77.0	29,500	78.0	26,200
35	73.0	31,400	75.0	29,500	76.5	26,200
40	71.0	31,400	73.5	29,500	75.0	26,200
45	69.0	30,100	71.5	29,500	73.5	26,200
50	66.5	27,600	69.5	29,300	72.0	26,200
55	64.0	25,500	67.5	27,000	70.0	24,700
60	61.5	23,500	65.5	25,000	68.0	22,800
65	59.0	21,900	63.0	23,200	66.0	21,100
70	56.0	20,500	60.5	21,600	64.0	19,800
75	53.5	19,100	58.5	20,300	62.0	18,400
80	50.5	17,900	56.0	19,000	60.0	17,200
85	47.5	16,800	53.5	17,900	57.5	16,000
90	44.0	15,800	50.5	16,800	55.5	15,000
95	40.5	14,900	48.0	15,800	53.0	14,100
100	36.5	14,000	45.0	14,900	51.0	13,200
105	32.5	13,200	42.0	14,000	48.5	12,400
110	27.5	12,500	38.5	13,300	45.5	11,600
115	21.5	11,800	35.0	12,500	43.0	10,900
120	12.0	11,200	31.0	11,900	40.0	10,300
125			26.5	11,300	37.0	9,700
130			21.0	10,700	33.5	9,200
135			12.0	10,100	30.0	8,600
140					25.5	8,100
145					20.0	7,700
150					11.5	7,300
Min.Bm. Ang./Cap.	0.0	5,400	0.0	4,800	0.0	4,200
Radius (ft)	121.5		136.5		151.5	

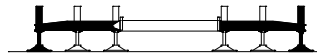
Load Radius (ft)	175.0 ft		185.0 ft		195.3 ft	
		360°		360°		360°
35	78.0	24,400	78.0	18,800		
40	76.5	24,400	77.0	18,800	77.5	17,000
45	75.0	24,400	75.5	18,800	76.0	17,000
50	73.5	24,400	74.5	18,800	75.0	17,000
55	72.5	24,400	73.0	18,800	74.0	17,000
60	70.5	23,800	71.5	18,800	72.5	17,000
65	68.5	20,800	70.0	18,800	71.5	17,000
70	67.0	20,700	69.0	18,800	70.0	17,000
75	65.5	19,300	67.5	18,800	68.5	17,000
80	63.5	18,100	65.5	17,900	67.5	17,000
85	61.5	16,900	64.0	16,600	65.5	15,800
90	59.5	15,900	62.0	15,400	64.0	14,700
95	57.5	14,900	60.0	14,400	62.0	13,600
100	55.5	14,000	58.5	13,400	60.5	12,600
105	53.5	13,200	56.5	12,400	58.5	11,700
110	51.5	12,400	54.5	11,600	57.0	10,900
115	49.0	11,700	52.5	10,800	55.0	10,100
120	47.0	11,100	50.0	10,000	53.0	9,300
125	44.5	10,500	48.0	9,400	51.0	8,700
130	41.5	9,900	45.5	8,700	49.0	8,000
135	39.0	9,300	43.5	8,100	47.0	7,400
140	36.0	8,800	40.5	7,500	44.5	6,800
145	33.0	8,400	38.0	7,000	42.5	6,300
150	29.0	7,900	35.0	6,500	40.0	5,800
155	25.0	7,200	32.0	6,000	37.0	5,300
160	19.5	6,600	28.5	5,600	34.5	4,900
165	11.5	6,100	24.5	5,100	31.5	4,500
170			19.0	4,700	28.0	4,100
175			11.5	4,400	24.0	3,700
180					19.0	3,300
185					11.5	3,000
Min.Bm. Ang./Cap.	0.0	3,600	0.0	3,200	0.0	2,900
Radius (ft)	166.5		176.5		186.7	



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**Rated Lifting Capacities
In Pounds****Full****60,000 lb**

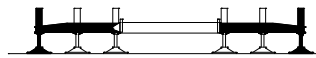
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
		360°		360°		360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	61,600
12	66.5	240,000	72.0	77,300	76.5	61,600
15	61.5	204,500	69.0	77,300	73.5	61,600
20	53.0	151,600	63.0	77,300	69.5	61,600
25	43.0	118,800	56.5	77,300	65.0	61,600
30	29.5	96,400	50.0	77,300	60.0	59,900
35			42.0	77,300	55.0	54,100
40			32.5	72,200	49.5	49,400
45			18.0	62,600	43.5	45,400
50					37.0	42,000
55					28.5	39,200
60					15.5	36,900
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	14,200
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft	
		360°		360°		360°
15	77.0	61,900				
20	73.5	61,900	76.0	52,900	78.0	39,000
25	70.0	59,400	73.5	52,900	75.5	39,000
30	66.5	52,800	70.5	47,800	73.5	39,000
35	62.5	47,400	67.5	43,100	71.0	39,000
40	58.5	43,000	64.0	39,300	68.5	36,600
45	54.5	39,400	61.0	36,000	65.5	33,400
50	50.0	36,300	57.5	33,200	62.5	30,700
55	45.0	33,500	54.0	30,700	60.0	28,300
60	39.5	31,200	50.0	28,500	56.5	26,200
65	33.5	29,100	46.0	26,600	53.5	24,400
70	26.0	27,200	41.5	24,900	50.5	22,800
75	14.5	25,700	36.5	23,400	47.0	21,300
80			31.0	22,100	43.0	20,100
85			24.0	20,900	39.0	18,900
90			13.5	19,800	34.5	17,800
95					29.0	16,800
100					22.5	15,900
105					12.5	15,100
Min.Bm. Ang./Cap.	0.0	12,000	0.0	9,800	0.0	8,000
Radius (ft)	76.5		91.5		106.5	



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Rated Lifting Capacities In Pounds



Full

60,000 lb



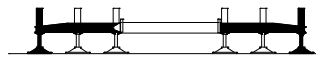
Load Radius (ft)	130.0 ft		145.0 ft		160.0 ft	
		360°		360°		360°
25	77.5	35,600				
30	75.5	35,600	77.0	32,200	78.5	30,200
35	73.5	35,600	75.5	32,200	77.0	30,200
40	71.5	35,600	73.5	32,200	75.5	30,200
45	69.0	32,800	71.5	31,500	74.0	30,200
50	66.5	30,200	69.5	28,900	72.0	29,100
55	64.0	27,900	67.5	26,600	70.5	26,800
60	61.5	25,900	65.5	24,600	68.5	24,800
65	59.0	24,100	63.0	22,800	66.5	23,100
70	56.5	22,500	60.5	21,200	64.5	21,500
75	53.5	21,100	58.5	19,900	62.5	20,100
80	50.5	19,900	56.0	18,600	60.5	18,800
85	47.5	18,700	53.5	17,400	58.0	17,700
90	44.0	17,600	51.0	16,300	56.0	16,600
95	40.5	16,600	48.0	15,300	53.5	15,600
100	37.0	15,700	45.0	14,400	51.0	14,700
105	32.5	14,900	42.0	13,600	48.5	13,800
110	28.0	14,100	39.0	12,800	46.0	13,000
115	21.5	13,400	35.0	12,100	43.5	12,300
120	12.0	12,800	31.0	11,400	40.5	11,600
125			26.5	10,800	37.5	11,000
130			21.0	10,200	34.0	10,400
135			12.0	9,700	30.0	9,900
140					26.0	9,300
145					20.5	8,600
150					11.5	7,900
Min.Bm. Ang./Cap.	0.0	6,200	0.0	4,700	0.0	3,100
Radius (ft)	121.5		136.5		151.5	

Load Radius (ft)	170.0 ft		180.3 ft	
		360°		360°
35	78.0	28,000	78.5	24,900
40	76.5	28,000	77.5	24,900
45	75.0	28,000	76.0	24,900
50	74.0	28,000	75.0	24,900
55	72.5	27,900	73.5	24,900
60	70.5	26,000	72.0	24,100
65	68.5	24,200	70.0	22,200
70	67.0	22,600	68.5	20,600
75	65.0	21,100	66.5	19,000
80	63.0	19,800	65.0	17,600
85	61.0	18,600	63.0	16,300
90	59.0	17,400	61.0	15,100
95	57.0	16,300	59.5	14,000
100	55.0	15,300	57.5	13,000
105	52.5	14,400	55.5	12,100
110	50.5	13,500	53.0	11,200
115	48.0	12,800	51.0	10,400
120	45.5	12,000	49.0	9,700
125	42.5	11,300	46.5	9,000
130	40.0	10,600	44.0	8,300
135	37.0	9,700	41.5	7,700
140	33.5	8,900	38.5	7,100
145	29.5	8,100	36.0	6,600
150	25.5	7,400	32.5	6,100
155	20.0	6,700	29.0	5,600
160	11.5	6,100	25.0	5,200
165			20.0	4,700
170			12.0	4,300
Min.Bm. Ang./Cap.	0.0	2,200	0.0	1,600
Radius (ft)	161.5		171.7	



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Rated Lifting Capacities In Pounds



Full

60,000 lb



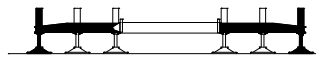
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft		85.0 ft	
		360°		360°		360°		360°
9	71.0	280,000						
10	69.5	264,900	74.0	77,300	77.5	68,700		
12	66.5	240,000	72.0	77,300	76.5	68,700		
15	61.5	204,500	69.0	77,300	74.0	68,700	76.5	69,000
20	53.0	151,600	63.0	77,300	69.5	68,700	74.0	69,000
25	43.0	118,800	56.5	77,300	65.0	68,700	70.0	69,000
30	29.5	96,400	50.0	77,300	60.5	68,700	66.5	69,000
35			42.0	77,300	55.5	68,700	62.5	69,000
40			32.5	72,200	50.0	68,700	58.5	62,800
45			18.0	62,600	44.0	64,600	54.5	57,400
50					37.0	56,400	50.0	52,800
55					28.5	48,500	45.0	48,800
60					15.5	42,100	40.0	42,700
65							33.5	37,500
70							26.0	33,300
75							14.0	29,800
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	20,800	0.0	16,700
Radius (ft)	33.7		46.5		61.5		76.5	

Load Radius (ft)	100.0 ft		115.0 ft		130.0 ft		145.0 ft		155.0 ft	
		360°		360°		360°		360°		360°
20	76.0	54,700	78.5	54,000						
25	73.5	54,700	76.0	54,000	78.0	49,400				
30	70.5	53,100	73.5	50,700	76.0	47,400	77.5	41,000	78.5	35,500
35	67.5	47,700	71.0	45,500	73.5	42,700	76.0	41,000	77.0	35,500
40	64.0	43,200	68.0	41,300	71.5	38,700	74.0	40,300	75.5	35,500
45	60.5	39,600	65.5	37,600	69.0	35,300	72.0	36,800	73.5	33,000
50	57.5	36,300	62.5	34,400	66.5	32,300	70.0	33,700	71.5	30,000
55	53.5	33,500	59.5	31,700	64.0	29,700	68.0	31,000	69.5	27,300
60	50.0	31,000	56.5	29,300	61.5	27,400	65.5	28,600	67.5	24,900
65	46.0	28,900	53.5	27,100	59.0	25,400	63.5	26,400	65.5	22,800
70	41.5	26,900	50.0	25,200	56.0	23,600	61.0	24,500	63.5	21,000
75	36.5	25,200	46.5	23,500	53.5	22,000	59.0	22,800	61.5	19,400
80	31.0	23,700	43.0	22,000	50.5	20,600	56.5	21,200	59.0	17,800
85	24.0	22,400	39.0	20,700	47.5	19,300	54.0	19,800	56.5	16,500
90	13.0	21,100	34.5	19,500	44.0	18,000	51.0	18,400	54.5	15,200
95			29.0	18,300	40.5	16,900	48.5	17,100	52.0	14,000
100			22.5	17,300	37.0	15,900	45.5	16,000	49.5	12,900
105			12.5	16,300	32.5	15,000	42.5	14,900	46.5	12,000
110					27.5	14,100	39.0	13,800	44.0	11,100
115					21.5	13,200	35.5	12,500	41.0	10,200
120					12.0	12,100	31.5	11,400	38.0	9,400
125							26.5	10,300	34.5	8,700
130							21.0	9,300	30.5	8,000
135							12.0	8,500	26.0	7,400
140									20.5	6,800
145									11.5	6,200
Min.Bm. Ang./Cap.	0.0	13,100	0.0	10,200	0.0	7,500	0.0	5,300	0.0	3,800
Radius (ft)	91.5		106.5		121.5		136.5		146.4	



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Rated Lifting Capacities In Pounds



Full

60,000 lb



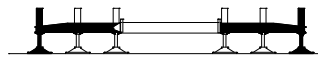
Load Radius (ft)	42.3 ft		55.0 ft		70.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
9	71.0	280,000				
10	69.5	264,900	74.0	77,300	77.5	68,700
12	66.5	240,000	72.0	77,300	76.5	68,700
15	61.5	204,500	69.0	77,300	74.0	68,700
20	53.0	151,600	63.0	77,300	69.5	68,700
25	43.0	118,800	56.5	77,300	65.0	68,700
30	29.5	96,400	50.0	77,300	60.5	68,700
35			42.0	77,300	55.5	68,700
40			32.5	72,200	50.0	68,700
45			18.0	62,600	44.0	64,600
50					37.0	56,400
55					28.5	48,500
60					15.5	42,100
Min.Bm. Ang./Cap.	0.0	59,600	0.0	25,600	0.0	20,800
Radius (ft)	33.7		46.5		61.5	

Load Radius (ft)	85.0 ft		100.0 ft		115.0 ft		129.6 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
15	76.5	64,900						
20	74.0	64,900	76.0	65,000	78.5	61,300		
25	70.0	64,900	73.5	65,000	76.0	61,300	78.0	47,200
30	66.5	64,900	70.5	65,000	74.0	61,300	76.0	47,200
35	62.5	64,900	67.5	65,000	71.5	61,300	73.5	45,500
40	58.5	64,900	64.5	62,400	68.5	57,400	71.5	40,800
45	54.5	59,600	61.0	57,000	66.0	52,000	69.0	36,800
50	50.0	54,800	57.5	52,400	63.0	47,500	66.5	33,300
55	45.0	49,000	54.0	48,400	60.0	43,500	64.0	30,300
60	39.5	42,600	50.0	42,200	57.0	40,200	61.5	27,600
65	33.5	37,500	46.0	37,100	54.0	36,000	59.0	25,300
70	26.0	33,300	41.5	33,000	50.5	32,000	56.0	23,200
75	14.0	29,700	36.5	29,400	47.0	28,500	53.5	21,300
80			31.0	26,300	43.0	25,400	50.5	19,800
85			24.0	23,700	39.0	22,800	47.0	18,300
90			13.0	21,400	34.5	20,500	44.0	16,900
95					29.0	18,500	40.5	15,600
100					22.5	16,800	36.5	14,500
105					12.5	15,200	32.0	13,400
110							27.0	12,400
115							21.0	11,500
120							10.5	10,600
Min.Bm. Ang./Cap.	0.0	16,700	0.0	13,100	0.0	9,800	0.0	6,900
Radius (ft)	76.5		91.5		106.5		121.0	



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Rated Lifting Capacities In Pounds



Full

60,000 lb



Load Radius (ft)	42.3 ft		56.4 ft	
	Δ°	360°	Δ°	360°
9	71.0	280,000		
10	69.5	264,900	75.0	157,100
12	66.5	240,000	73.0	157,100
15	61.5	204,500	69.5	157,100
20	53.0	151,600	64.0	152,200
25	43.0	118,800	57.5	122,200
30	29.5	96,400	51.0	99,900
35			43.5	83,800
40			35.0	71,500
45			22.5	62,000
Min.Bm. Ang./Cap.	0.0	59,600	0.0	43,100
Radius (ft)	33.7		47.8	

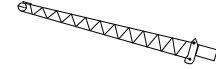
Load Radius (ft)	71.3 ft		87.1 ft		103.7 ft	
	Δ°	360°	Δ°	360°	Δ°	360°
10	78.5	151,700				
12	77.0	144,800				
15	74.5	137,400	77.5	110,100		
20	70.0	118,300	74.0	106,500	77.0	80,700
25	65.5	103,700	70.5	93,500	74.5	77,100
30	61.0	92,100	67.0	83,200	71.5	67,900
35	56.0	82,900	63.5	74,700	68.5	60,500
40	51.0	72,700	59.5	67,700	65.5	54,300
45	45.0	63,200	55.5	61,900	62.5	49,000
50	38.5	54,800	51.0	54,600	59.0	44,500
55	30.5	46,900	46.5	46,900	55.5	40,800
60	19.5	40,600	41.5	40,600	52.0	37,400
65			35.5	35,400	48.5	34,400
70			29.0	31,300	44.0	30,400
75			19.5	27,800	39.5	26,900
80					34.5	23,900
85					29.0	21,300
90					21.5	19,000
95					7.0	17,100
Min.Bm. Ang./Cap.	0.0	32,000	0.0	23,300	0.0	16,300
Radius (ft)	62.7		78.5		95.2	



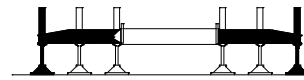
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Rated Lifting Capacities In Pounds

31.0' Offset Fly



2°, 15°, 30°, 45°



Full

60,000 lb



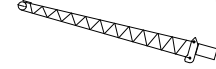
Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
35	79.0	14,400														
40	77.5	14,400														
45	76.5	14,400	78.5	14,500												
50	75.0	14,400	77.5	14,500					79.0	10,800						
55	74.0	14,400	76.0	14,500	78.0	14,200			78.0	10,800						
60	72.5	14,400	74.5	14,500	77.0	14,100	78.5	13,200	77.0	10,800	79.0	10,800				
65	71.5	14,400	73.5	14,500	75.5	14,000	77.0	13,100	76.0	10,800	78.0	10,800				
70	70.0	14,400	72.0	14,500	74.0	13,800	75.5	13,000	75.0	10,800	77.0	10,800	79.0	10,900		
75	68.5	14,400	71.0	14,500	72.5	13,700	74.5	13,000	74.0	10,800	76.0	10,800	77.5	10,900	79.5	11,100
80	67.0	14,400	69.5	14,500	71.5	13,600	73.0	12,900	73.0	10,800	74.5	10,800	76.5	10,900	78.5	11,100
85	65.5	13,400	67.5	13,600	70.0	13,500	71.5	12,800	72.0	10,800	73.5	10,800	75.5	10,900	77.0	11,100
90	64.0	12,500	66.0	12,700	68.0	12,900	69.5	12,800	70.5	10,800	72.5	10,800	74.5	10,900	76.0	11,100
95	62.0	11,600	64.0	11,800	66.5	12,000	68.0	12,200	69.5	10,800	71.5	10,800	73.5	10,900	75.0	11,100
100	60.5	10,900	62.5	11,000	64.5	11,300	66.0	11,500	68.5	10,800	70.5	10,800	72.0	10,900	73.5	11,100
105	58.5	10,100	60.5	10,300	62.5	10,500	64.0	10,700	67.0	10,100	69.0	10,400	71.0	10,800	72.5	11,100
110	56.5	9,500	59.0	9,700	61.0	9,900	62.0	10,000	65.5	9,300	67.5	9,700	69.5	10,000	70.5	10,300
115	54.5	8,900	57.0	9,100	59.0	9,200	60.0	9,400	64.0	8,600	66.0	9,000	67.5	9,300	69.0	9,600
120	53.0	8,300	55.0	8,500	57.0	8,700	58.0	8,800	62.5	8,000	64.0	8,300	66.0	8,600	67.5	8,900
125	51.0	7,800	53.0	7,900	54.5	8,100	56.0	8,200	60.5	7,400	62.5	7,700	64.5	8,000	66.0	8,200
130	48.5	7,300	51.0	7,400	52.5	7,600	53.5	7,700	59.0	6,800	61.0	7,100	63.0	7,400	64.0	7,600
135	46.5	6,800	48.5	7,000	50.5	7,100	51.5	7,200	57.5	6,300	59.5	6,600	61.0	6,800	62.5	7,000
140	44.5	6,400	46.5	6,500	48.0	6,600	49.0	6,700	55.5	5,800	57.5	6,000	59.5	6,300	60.5	6,500
145	42.0	6,000	44.0	6,100	45.5	6,200	46.5	6,300	54.0	5,300	56.0	5,500	57.5	5,800	58.5	6,000
150	39.5	5,600	41.5	5,700	43.0	5,800			52.0	4,800	54.0	5,100	55.5	5,300	56.5	5,500
155	37.0	5,200	39.0	5,400	40.0	5,400			50.5	4,400	52.0	4,600	54.0	4,900	54.5	5,000
160	34.0	4,900	36.0	5,000	37.0	5,100			48.5	4,000	50.5	4,200	52.0	4,400	52.5	4,500
165	31.0	4,600	32.5	4,700	34.0	4,800			46.5	3,600	48.5	3,800	50.0	4,000	50.5	4,100
170	27.5	4,300	29.0	4,400	30.0	4,400			44.5	3,300	46.0	3,500	47.5	3,600	48.5	3,700
175	23.0	4,100	25.0	4,100					42.5	2,900	44.0	3,100	45.5	3,200	46.0	3,300
180	18.0	3,800	19.5	3,900					40.0	2,600	42.0	2,800	43.0	2,900		
185	8.5	3,500							37.5	2,300	39.5	2,400	40.5	2,500		
190									35.0	2,000	37.0	2,100	38.0	2,200		
195									32.5	1,700	34.0	1,800	35.0	1,900		
200									29.5	1,500	31.0	1,600	31.5	1,600		
205									26.0	1,200	27.5	1,300				
Min.Bm. Ang./Cap.	0.0	2,100	0.0	2,100	0.0	2,200	0.0	2,400	24.0		24.5		23.0		21.5	
Radius (ft)	185.4		185.0		183.0		179.2		207.5		208.3		210.0		208.3	
Max. Boom Length AT 0° Boom Angle (ft)		178														



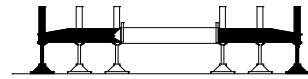
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Rated Lifting Capacities In Pounds

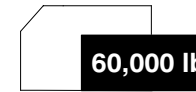
31.0' Offset Fly



2°, 15°, 30°, 45°



Full



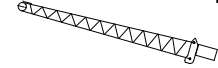
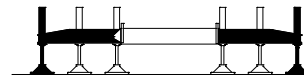
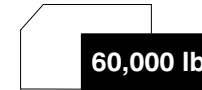
60,000 lb



Load Radius (ft)	151' Boom								180.3 Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
35	78.5	17,100														
40	77.0	17,100														
45	75.5	17,100	78.0	17,000					79.0	13,500						
50	74.5	17,100	76.5	16,800	79.0	15,200			78.0	13,500						
55	73.0	17,100	75.0	16,600	77.5	15,000	79.0	13,900	77.0	13,500	79.0	13,600				
60	71.5	17,100	73.5	16,300	76.0	14,800	77.5	13,700	76.0	13,500	78.0	13,600				
65	70.0	17,100	72.0	16,100	74.0	14,600	76.0	13,600	74.5	13,500	76.5	13,600	79.0	13,600		
70	68.5	17,100	70.5	15,900	72.5	14,400	74.5	13,500	73.5	13,500	75.5	13,600	77.5	13,400	79.0	12,700
75	67.0	16,300	69.0	15,700	71.0	14,300	72.5	13,400	72.5	13,500	74.5	13,600	76.5	13,300	78.0	12,600
80	65.0	15,200	67.5	15,300	69.5	14,100	71.0	13,300	71.5	13,500	73.5	13,600	75.0	13,200	76.5	12,600
85	63.5	14,100	65.5	14,300	68.0	14,000	69.5	13,200	70.0	13,500	72.0	13,600	74.0	13,100	75.5	12,500
90	61.5	13,200	64.0	13,400	66.0	13,600	67.5	13,200	68.5	13,300	70.5	13,600	72.5	13,000	74.0	12,500
95	59.5	12,300	62.0	12,500	64.0	12,700	65.5	12,900	67.0	12,300	69.0	12,700	71.0	12,900	72.5	12,500
100	57.5	11,600	60.0	11,700	62.0	11,900	63.5	12,100	65.5	11,400	67.5	11,800	69.5	12,200	71.0	12,400
105	55.5	10,800	58.0	11,000	60.0	11,200	61.5	11,300	64.0	10,600	66.0	11,000	68.0	11,300	69.5	11,600
110	53.5	10,200	56.0	10,300	58.0	10,500	59.5	10,600	62.0	9,800	64.5	10,200	66.0	10,500	67.5	10,800
115	51.5	9,500	53.5	9,700	55.5	9,800	57.0	10,000	60.5	9,100	62.5	9,500	64.5	9,800	66.0	10,100
120	49.5	8,900	51.5	9,100	53.5	9,200	54.5	9,400	59.0	8,500	61.0	8,800	62.5	9,100	64.0	9,300
125	47.0	8,400	49.0	8,500	51.0	8,700	52.0	8,800	57.0	7,900	59.0	8,200	61.0	8,400	62.0	8,700
130	44.5	7,900	47.0	8,000	48.5	8,200	49.5	8,300	55.0	7,300	57.0	7,600	59.0	7,800	60.5	8,000
135	42.0	7,400	44.5	7,600	46.0	7,700	47.0	7,800	53.5	6,700	55.5	7,000	57.0	7,200	58.5	7,400
140	39.5	7,000	41.5	7,100	43.5	7,200			51.5	6,200	53.5	6,500	55.0	6,700	56.5	6,900
145	36.5	6,600	39.0	6,700	40.5	6,800			49.5	5,700	51.5	6,000	53.0	6,200	54.0	6,300
150	33.5	6,200	36.0	6,300	37.0	6,400			47.5	5,300	49.5	5,500	51.0	5,700	52.0	5,800
155	30.5	5,900	32.5	5,900	33.5	6,000			45.5	4,800	47.5	5,000	49.0	5,200	49.5	5,300
160	26.5	5,500	28.5	5,600					43.0	4,400	45.0	4,600	46.5	4,800	47.0	4,900
165	22.0	5,200	24.0	5,300					41.0	4,000	42.5	4,200	44.0	4,400		
170	15.5	5,000	17.5	5,000					38.5	3,700	40.0	3,800	41.5	4,000		
175									35.5	3,300	37.5	3,500	38.5	3,600		
180									33.0	3,000	34.5	3,100	35.5	3,200		
185									29.5	2,700	31.5	2,800	32.0	2,900		
190									26.0	2,400	27.5	2,500				
195									21.5	2,200	23.0	2,200				
200									15.5	1,900	17.0	2,000				
Min.Bm. Ang./Cap.	0.0	2,700	0.0	2,800	0.0	2,900	0.0	3,100	9.5		9.0		9.5		8.0	
Radius (ft)	173.4		173.0		171.0		167.3		201.8		201.6		198.6		195.0	
Max. Boom Length At 0° Boom Angle (ft)		175														



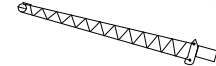
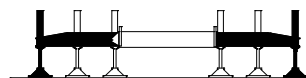
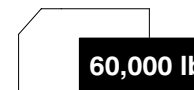
PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054
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**Rated Lifting Capacities
In Pounds**
31.0' Offset Fly

2°, 15°, 30°, 45°

Full

60,000 lb


Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
30	78.0	27,900														
35	76.5	26,900	78.5	20,200												
40	75.0	26,000	77.0	19,700					78.5	18,900						
45	73.0	25,100	75.0	19,200	77.5	16,700			77.5	18,900	79.5	17,700				
50	71.0	24,200	73.5	18,700	76.0	16,300	78.0	14,700	76.0	18,900	78.0	17,400				
55	69.5	23,300	71.5	18,300	74.0	16,000	76.0	14,500	74.5	18,900	76.5	17,100	78.5	15,200		
60	67.5	22,300	69.5	17,800	72.0	15,700	74.0	14,300	73.0	18,800	75.0	16,800	77.0	15,000	79.0	13,800
65	65.5	19,800	67.5	17,400	70.0	15,400	72.0	14,100	72.0	18,500	73.5	16,500	75.5	14,800	77.5	13,700
70	63.5	19,300	65.5	17,000	68.0	15,100	70.0	14,000	70.5	18,100	72.0	16,200	74.0	14,600	76.0	13,600
75	61.5	18,100	63.5	16,600	66.0	14,900	68.0	13,900	68.5	17,300	70.5	16,000	72.5	14,400	74.0	13,500
80	59.0	16,900	61.5	16,200	64.0	14,600	65.5	13,800	67.0	16,000	69.0	15,700	71.0	14,200	72.5	13,400
85	57.0	15,800	59.5	15,800	62.0	14,400	63.5	13,700	65.0	14,800	67.5	15,200	69.5	14,100	71.0	13,300
90	54.5	14,700	57.0	14,800	59.5	14,200	61.0	13,600	63.5	13,700	65.5	14,100	68.0	13,900	69.5	13,200
95	52.0	13,800	55.0	13,900	57.0	14,000	58.5	13,600	61.5	12,700	64.0	13,100	66.0	13,400	67.5	13,200
100	49.5	12,900	52.5	13,000	54.5	13,100	56.0	13,300	59.5	11,700	62.0	12,100	64.0	12,500	65.5	12,800
105	47.0	12,100	49.5	12,200	52.0	12,400	53.5	12,500	57.5	10,900	60.0	11,200	62.0	11,600	63.5	11,800
110	44.5	11,400	47.0	11,500	49.0	11,600	50.5	11,700	55.5	10,100	58.0	10,400	60.0	10,700	61.5	11,000
115	41.5	10,800	44.0	10,800	46.0	10,900	47.0	11,000	53.5	9,300	56.0	9,600	58.0	9,900	59.5	10,200
120	38.5	10,100	41.0	10,200	43.0	10,300			51.5	8,600	53.5	8,900	55.5	9,200	57.0	9,400
125	35.0	9,600	37.5	9,600	39.5	9,700			49.5	8,000	51.5	8,200	53.5	8,500	54.5	8,700
130	31.5	9,000	34.0	9,100	35.5	9,200			47.0	7,400	49.0	7,600	51.0	7,900	52.0	8,000
135	27.5	8,600	29.5	8,600	31.0	8,700			44.5	6,800	47.0	7,000	48.5	7,200	49.5	7,400
140	22.5	8,100	24.5	8,200					42.0	6,200	44.5	6,500	46.0	6,700	46.5	6,800
145	15.5	7,800	17.5	7,800					39.5	5,700	41.5	5,900	43.0	6,100		
150									36.5	5,300	39.0	5,500	40.5	5,600		
155									33.5	4,800	35.5	5,000	37.0	5,100		
160									30.0	4,400	32.0	4,600	33.5	4,700		
165									26.5	4,000	28.0	4,200				
170									21.5	3,700	23.5	3,800				
175									14.5	3,400	16.0	3,400				
Min.Bm. Ang./Cap.	0.0	4,700	0.0	4,800	0.0	5,000	0.0	5,400	0.0	2,100	0.0	2,200	0.0	2,300	0.0	2,500
Radius (ft)	148.1		147.8		145.9		142.3		177.5		177.1		175.1		171.3	


 PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
55.0' Offset Fly

2°, 15°, 30°, 45°

Full

60,000 lb

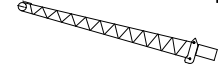

Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
40	79.5	10,600														
45	78.0	10,600														
50	77.0	10,600														
55	76.0	10,600							79.5	8,300						
60	75.0	10,600	78.5	9,700					78.5	8,300						
65	74.0	10,600	77.0	9,600					78.0	8,300						
70	73.0	10,600	76.0	9,400	79.0	8,400			77.0	8,300						
75	71.5	10,400	74.5	9,300	78.0	8,200			76.0	8,300	79.0	8,400				
80	70.5	10,200	73.5	9,100	76.5	8,100			75.0	8,300	78.0	8,300				
85	69.0	10,100	72.0	9,000	75.5	8,000	78.0	7,400	74.0	8,300	77.0	8,200				
90	68.0	9,900	71.0	8,800	74.0	7,900	76.5	7,300	73.5	8,300	76.0	8,200	79.0	7,400		
95	66.5	9,700	69.5	8,700	72.5	7,800	75.5	7,200	72.5	8,300	75.0	8,100	78.0	7,300		
100	65.5	9,500	68.5	8,500	71.5	7,700	74.0	7,200	71.5	8,300	74.0	8,000	77.0	7,300	79.0	6,800
105	64.0	9,300	67.0	8,400	70.0	7,600	72.5	7,100	70.5	8,300	73.0	7,900	75.5	7,200	78.0	6,800
110	62.5	8,700	65.5	8,300	68.5	7,500	71.0	7,100	69.5	8,300	72.0	7,800	74.5	7,100	77.0	6,800
115	61.0	8,100	64.0	8,200	67.0	7,400	69.5	7,000	68.5	8,300	71.0	7,700	73.5	7,100	75.5	6,700
120	59.0	7,600	62.5	7,900	65.5	7,400	68.0	7,000	67.0	7,700	70.0	7,600	72.5	7,000	74.5	6,700
125	57.5	7,100	61.0	7,400	64.0	7,300	66.5	7,000	65.5	7,100	68.5	7,600	71.5	7,000	73.5	6,700
130	56.0	6,600	59.5	6,900	62.5	7,100	64.5	6,900	64.0	6,600	67.5	7,000	70.0	6,900	72.0	6,700
135	54.0	6,200	57.5	6,400	60.5	6,700	63.0	6,900	62.5	6,000	66.0	6,500	69.0	6,900	71.0	6,600
140	52.5	5,800	55.5	6,000	59.0	6,200	61.0	6,400	61.0	5,600	64.5	6,000	67.5	6,400	69.5	6,600
145	50.5	5,400	54.0	5,600	57.0	5,800	59.0	6,000	60.0	5,100	63.0	5,500	66.0	5,900	68.0	6,300
150	48.5	5,100	52.0	5,200	55.0	5,400	57.0	5,600	58.5	4,700	61.5	5,100	64.5	5,500	66.5	5,800
155	46.5	4,700	50.0	4,900	53.0	5,100	54.5	5,200	56.5	4,300	59.5	4,600	62.5	5,000	64.5	5,300
160	44.5	4,400	48.0	4,600	50.5	4,700	52.0	4,800	55.0	3,900	58.0	4,200	61.0	4,600	63.0	4,800
165	42.5	4,100	46.0	4,200	48.5	4,400	49.5	4,500	53.5	3,500	56.5	3,800	59.5	4,200	61.0	4,400
170	40.5	3,800	43.5	4,000	46.0	4,100	47.0	4,200	52.0	3,100	55.0	3,500	57.5	3,800	59.5	4,000
175	38.0	3,600	41.0	3,700	43.5	3,800			50.5	2,800	53.0	3,100	56.0	3,400	57.5	3,600
180	35.5	3,300	38.5	3,400	41.0	3,500			48.5	2,500	51.5	2,800	54.0	3,000	55.5	3,200
185	33.0	3,100	36.0	3,200	38.0	3,300			47.0	2,200	49.5	2,500	52.0	2,700	53.5	2,800
190	30.0	2,900	33.0	2,900	34.5	3,000			45.0	1,900	48.0	2,100	50.0	2,400	51.0	2,500
195	26.5	2,700	29.5	2,700	30.5	2,800			43.0	1,600	46.0	1,800	48.0	2,000	49.0	2,100
200	23.0	2,500	25.5	2,600					41.0	1,300	44.0	1,600	46.0	1,700	46.5	1,800
205	17.5	2,400	20.0	2,400							42.0	1,300	43.5	1,400		
210													41.5	1,200		
Min.Bm. Ang./Cap.	14.0		15.0		16.5		18.0		39.0		40.5		40.5		40.5	
Radius (ft)	207.4		206.6		201.7		193.0		205.0		208.3		211.7		211.7	
Max. Boom Length At 0° Boom Angle (ft)		155														


 PORTLAND OFFICE: 503.283.3111
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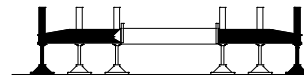
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Rated Lifting Capacities In Pounds

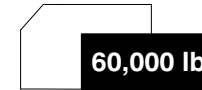
55.0' Offset Fly



2°, 15°, 30°, 45°



Full



60,000 lb

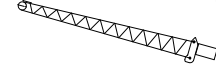


Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
45	78.0	12,400														
50	76.5	12,200							79.5	10,100						
55	75.5	12,000	79.0	10,500					78.5	10,100						
60	74.0	11,700	77.5	10,300					78.0	10,100						
65	73.0	11,500	76.0	10,100					77.0	10,100						
70	71.5	11,300	75.0	9,900	78.5	8,600			76.0	10,100	78.5	9,200				
75	70.5	11,000	73.5	9,700	77.0	8,500			75.0	10,100	77.5	9,100				
80	69.0	10,800	72.0	9,500	75.5	8,300	78.5	7,600	74.0	10,000	76.5	8,900	79.5	8,000		
85	67.5	10,600	71.0	9,300	74.0	8,200	77.0	7,500	72.5	9,800	75.5	8,800	78.5	7,900		
90	66.0	10,300	69.5	9,100	72.5	8,100	75.5	7,400	71.5	9,700	74.5	8,700	77.5	7,800		
95	65.0	10,100	68.0	8,900	71.0	8,000	74.0	7,400	70.5	9,600	73.0	8,500	76.0	7,700	78.5	7,100
100	63.5	9,900	66.5	8,800	69.5	7,900	72.5	7,300	69.5	9,400	72.0	8,400	75.0	7,600	77.5	7,100
105	62.0	9,700	65.0	8,600	68.0	7,800	71.0	7,300	68.0	9,300	71.0	8,300	73.5	7,500	76.0	7,000
110	60.0	9,300	63.5	8,500	66.5	7,700	69.0	7,200	67.0	9,100	69.5	8,200	72.5	7,400	75.0	7,000
115	58.5	8,700	62.0	8,300	65.0	7,600	67.5	7,200	65.5	8,900	68.5	8,100	71.0	7,400	73.5	7,000
120	56.5	8,200	60.0	8,200	63.5	7,500	65.5	7,100	64.0	8,300	67.0	8,000	70.0	7,300	72.0	6,900
125	55.0	7,700	58.5	7,900	61.5	7,400	64.0	7,100	62.5	7,700	66.0	7,900	68.5	7,200	71.0	6,900
130	53.0	7,200	56.5	7,400	60.0	7,400	62.0	7,000	61.0	7,100	64.5	7,600	67.5	7,200	69.5	6,900
135	51.0	6,800	54.5	7,000	58.0	7,200	60.0	7,000	59.5	6,600	63.0	7,000	66.0	7,100	68.0	6,800
140	49.0	6,400	52.5	6,500	56.0	6,700	58.0	6,900	58.0	6,100	61.5	6,500	64.5	6,900	66.5	6,800
145	47.0	6,000	50.5	6,100	53.5	6,300	55.5	6,500	56.5	5,600	59.5	6,000	62.5	6,400	65.0	6,700
150	45.0	5,600	48.5	5,800	51.5	5,900	53.0	6,100	55.0	5,200	58.0	5,600	61.0	5,900	63.0	6,200
155	43.0	5,300	46.0	5,400	49.0	5,600	50.5	5,700	53.0	4,800	56.0	5,100	59.0	5,500	61.0	5,700
160	40.5	5,000	44.0	5,100	46.5	5,200	47.5	5,300	51.5	4,400	54.5	4,700	57.5	5,000	59.0	5,200
165	38.0	4,700	41.5	4,800	44.0	4,900			49.5	4,000	52.5	4,300	55.5	4,600	57.0	4,800
170	35.5	4,400	38.5	4,500	41.0	4,600			47.5	3,700	50.5	3,900	53.5	4,200	55.0	4,400
175	32.5	4,100	35.5	4,200	37.5	4,300			46.0	3,300	49.0	3,600	51.5	3,800	52.5	4,000
180	29.5	3,900	32.5	4,000	34.0	4,100			44.0	3,000	47.0	3,200	49.0	3,500	50.5	3,600
185	25.5	3,700	28.5	3,800					41.5	2,700	44.5	2,900	47.0	3,100	48.0	3,200
190	21.5	3,500	24.0	3,600					39.5	2,400	42.5	2,600	44.5	2,800	45.0	2,900
195	15.0	3,400	17.0	3,500					37.5	2,100	40.0	2,300	42.0	2,500		
200									35.0	1,900	37.5	2,000	39.5	2,200		
205									32.0	1,600	35.0	1,800	36.5	1,900		
210									29.5	1,400	32.0	1,500	33.0	1,600		
215									26.0	1,200	28.5	1,300				
Min. Bm. Ang./Cap.	11.5		11.0		10.5		12.0		24.0		24.0		22.5		25.5	
Radius (ft)	196.9		195.9		190.9		187.0		217.5		220.0		220.0		210.5	
Max. Boom Length At 0° Boom Angle (ft)		147														

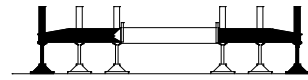
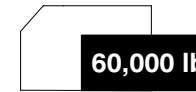


PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054

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**Rated Lifting Capacities
In Pounds**
55.0' Offset Fly


2°, 15°, 30°, 45°


Full

60,000 lb

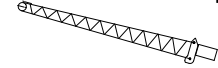

Load Radius (ft)	125.7' Boom								155' Boom								
	2°		15°		30°		45°		2°		15°		30°		45°		
35	78.5	15,200															
40	77.0	14,800															
45	75.5	14,300	79.5	12,000					79.0	13,100							
50	74.0	13,800	78.0	11,600					78.0	12,800							
55	72.5	13,400	76.0	11,300					76.5	12,500							
60	71.0	12,900	74.5	10,900	78.5	9,300			75.5	12,200	78.5	10,500					
65	69.5	12,500	73.0	10,600	77.0	9,100			74.0	11,900	77.5	10,300					
70	67.5	12,100	71.5	10,300	75.5	8,900	79.0	8,000	73.0	11,600	76.0	10,000	79.5	8,700			
75	66.0	11,700	70.0	10,000	73.5	8,700	77.0	7,900	71.5	11,400	74.5	9,800	78.0	8,500			
80	64.5	11,300	68.0	9,800	72.0	8,500	75.0	7,800	70.0	11,100	73.5	9,600	76.5	8,400	79.5	7,600	
85	62.5	10,900	66.5	9,500	70.0	8,400	73.5	7,700	69.0	10,800	72.0	9,400	75.5	8,300	78.0	7,500	
90	61.0	10,600	64.5	9,300	68.5	8,200	71.5	7,600	67.5	10,600	70.5	9,200	74.0	8,100	76.5	7,500	
95	59.0	10,300	62.5	9,100	66.5	8,100	69.5	7,500	66.0	10,300	69.0	9,000	72.5	8,000	75.0	7,400	
100	57.0	10,000	61.0	8,800	64.5	8,000	67.5	7,400	64.5	10,100	68.0	8,900	71.0	7,900	73.5	7,300	
105	55.5	9,700	59.0	8,700	62.5	7,800	65.5	7,400	63.0	9,800	66.5	8,700	69.5	7,800	72.0	7,300	
110	53.5	9,400	57.0	8,500	60.5	7,700	63.0	7,300	61.5	9,600	65.0	8,500	68.0	7,700	70.5	7,200	
115	51.5	9,200	55.0	8,300	58.5	7,600	61.0	7,300	60.0	9,200	63.5	8,400	66.5	7,600	69.0	7,200	
120	49.0	8,900	53.0	8,100	56.5	7,600	58.5	7,200	58.5	8,500	61.5	8,200	65.0	7,500	67.0	7,200	
125	47.0	8,700	50.5	8,000	54.0	7,500	56.0	7,200	56.5	7,900	60.0	8,100	63.0	7,500	65.5	7,100	
130	44.5	8,300	48.5	7,900	51.5	7,400	53.5	7,200	55.0	7,300	58.5	7,700	61.5	7,400	63.5	7,100	
135	42.0	7,800	46.0	7,700	49.0	7,400	50.5	7,200	53.0	6,700	56.5	7,100	59.5	7,300	61.5	7,000	
140	39.5	7,400	43.0	7,500	46.0	7,300	47.5	7,200	51.0	6,200	54.5	6,600	57.5	7,000	60.0	7,000	
145	36.5	7,000	40.5	7,100	43.0	7,200			49.0	5,700	52.5	6,100	55.5	6,400	57.5	6,700	
150	33.5	6,600	37.0	6,700	39.5	6,800			47.0	5,300	50.5	5,600	53.5	5,900	55.5	6,100	
155	30.0	6,300	33.5	6,300	36.0	6,400			45.0	4,900	48.5	5,200	51.0	5,500	53.0	5,600	
160	26.0	6,000	29.5	6,000	31.0	6,100			42.5	4,400	46.0	4,700	49.0	5,000	50.0	5,100	
165	21.0	5,700	24.5	5,800					40.5	4,100	43.5	4,300	46.0	4,600	47.5	4,700	
170	14.0	5,600	16.5	5,600					38.0	3,700	41.0	3,900	43.5	4,100			
175									35.0	3,400	38.5	3,600	40.5	3,800			
180										32.5	3,000	35.5	3,200	37.5	3,400		
185									29.0	2,800	32.0	2,900	33.5	3,000			
190									25.5	2,500	28.5	2,600					
195									21.0	2,300	23.5	2,300					
200									14.0	2,100							
Min.Bm. Ang./Cap.	0.0	2,100	0.0	2,200	0.0	2,400	0.0	2,800	10.0		15.0		9.5		0.0	1,200	
Radius (ft)	172.1		171.4		168.1		162.4		201.1		200.0		195.0		191.0		
Max. Boom Length At 0° Boom Angle (ft)		151															


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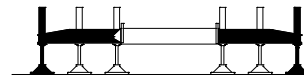
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Rated Lifting Capacities In Pounds

73.0' Offset Fly



2°, 15°, 30°, 45°



Full

60,000 lb



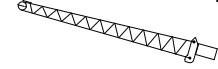
Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
55	79.0	8,800														
60	78.0	8,800														
65	77.0	8,800							79.0	6,700						
70	76.0	8,800	78.5	8,800					78.0	6,700						
75	75.0	8,800	77.5	8,700					77.0	6,700						
80	74.0	8,800	76.5	8,600					76.5	6,700						
85	73.0	8,800	75.5	8,500	78.5	7,700			75.5	6,700	78.0	6,800				
90	72.0	8,800	74.5	8,400	77.5	7,600			74.5	6,700	77.0	6,800				
95	70.5	8,800	73.0	8,300	76.0	7,500	78.5	6,800	74.0	6,700	76.5	6,800				
100	69.5	8,800	72.0	8,200	75.0	7,400	77.5	6,600	73.0	6,700	75.5	6,800	78.5	6,900		
105	68.5	8,600	71.0	8,100	73.5	7,200	76.0	6,500	72.0	6,700	74.5	6,800	77.5	6,900		
110	67.0	8,000	69.5	8,000	72.5	7,000	74.5	6,300	71.5	6,700	73.5	6,800	76.5	6,800	78.5	6,200
115	65.5	7,500	68.5	7,700	71.0	6,800	73.5	6,100	70.5	6,700	72.5	6,800	75.5	6,800	77.5	6,100
120	64.0	6,900	67.0	7,200	69.5	6,600	72.0	6,000	69.0	6,200	71.5	6,600	74.5	6,700	76.5	6,000
125	62.5	6,500	65.5	6,700	68.5	6,400	70.5	5,900	67.5	5,600	70.5	6,000	73.5	6,500	75.0	5,800
130	61.0	6,000	64.0	6,200	67.0	6,200	69.0	5,700	66.5	5,000	69.0	5,400	72.0	6,000	74.0	5,700
135	59.5	5,600	62.5	5,800	65.5	6,100	67.5	5,600	65.0	4,500	67.5	4,900	70.5	5,400	73.0	5,600
140	58.0	5,200	60.5	5,400	64.0	5,700	66.0	5,500	63.5	4,000	66.5	4,400	69.5	4,900	71.5	5,300
145	56.5	4,800	59.0	5,000	62.0	5,300	64.5	5,400	62.5	3,600	65.0	4,000	68.0	4,400	70.0	4,800
150	55.0	4,400	57.5	4,600	60.5	4,900	62.5	5,100	61.0	3,100	63.5	3,500	66.5	3,900	68.5	4,300
155	53.0	4,100	56.0	4,300	59.0	4,500	61.0	4,700	59.5	2,700	62.0	3,100	65.0	3,500	67.0	3,800
160	51.5	3,800	54.0	4,000	57.0	4,200	59.0	4,300	58.5	2,400	60.5	2,700	63.5	3,100	65.5	3,400
165	49.5	3,500	52.5	3,700	55.0	3,900	57.0	4,000	57.0	2,000	59.5	2,300	62.0	2,700	64.0	3,000
170	48.0	3,200	50.5	3,400	53.0	3,600	55.0	3,700	55.5	1,600	58.0	2,000	60.5	2,300	62.5	2,600
175	46.0	2,900	48.5	3,100	51.0	3,300	52.5	3,400	54.0	1,300	56.5	1,600	59.0	2,000	61.0	2,200
180	44.0	2,700	46.5	2,800	49.0	3,000	50.5	3,100			55.0	1,300	57.5	1,600	59.0	1,800
185	42.0	2,400	44.5	2,600	47.0	2,700	48.0	2,800					56.0	1,300	57.5	1,500
190	40.0	2,200	42.5	2,300	44.5	2,500	45.5	2,500								
195	37.5	2,000	40.0	2,100	42.0	2,200										
200	35.0	1,800	37.5	1,900	39.5	2,000										
205	32.5	1,600	35.0	1,700	36.5	1,800										
210	29.5	1,400	32.0	1,500	33.5	1,600										
215	26.5	1,200	28.5	1,300												
220			24.5	1,200												
Min.Bm. Ang./Cap.	22.5		18.5		21.0		13.0		53.0		54.0		55.0		56.0	
Radius (ft)	220.0		225.0		220.5		213.2		178.3		183.3		188.3		190.0	
Max. Boom Length At 0° Boom Angle (ft)	150															



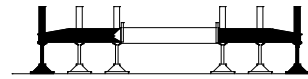
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SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds

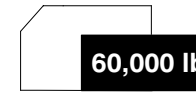
73.0' Offset Fly



2°, 15°, 30°, 45°



Full



60,000 lb



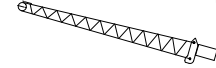
Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
50	79.0	10,400														
55	78.0	10,400														
60	77.0	10,400							79.0	8,200						
65	76.0	10,400	78.5	9,500					78.0	8,200						
70	75.0	10,300	77.5	9,400					77.0	8,200						
75	73.5	10,200	76.0	9,300					76.0	8,200	78.5	8,300				
80	72.5	10,000	75.0	9,100	78.5	8,100			75.5	8,200	78.0	8,300				
85	71.5	9,900	74.0	9,000	77.0	8,000			74.5	8,200	77.0	8,300				
90	70.0	9,700	72.5	8,800	76.0	7,900	78.5	7,100	73.5	8,200	76.0	8,200	78.5	7,500		
95	69.0	9,600	71.5	8,700	74.5	7,700	77.0	6,900	72.5	8,200	75.0	8,100	77.5	7,400		
100	67.5	9,400	70.0	8,600	73.0	7,500	75.5	6,700	71.5	8,200	74.0	8,100	76.5	7,400	79.0	6,700
105	66.5	9,300	68.5	8,300	71.5	7,200	74.0	6,500	70.5	8,200	73.0	8,000	75.5	7,300	78.0	6,500
110	65.0	8,700	67.5	8,000	70.5	7,000	72.5	6,400	69.5	8,200	72.0	7,900	74.5	7,100	76.5	6,400
115	63.5	8,100	66.0	7,700	69.0	6,800	71.0	6,200	68.5	8,200	71.0	7,800	73.5	6,900	75.5	6,200
120	61.5	7,600	64.5	7,500	67.5	6,600	69.5	6,000	67.5	8,000	69.5	7,700	72.0	6,700	74.0	6,100
125	60.0	7,100	63.0	7,200	66.0	6,400	68.0	5,900	66.0	7,400	68.5	7,500	71.0	6,500	73.0	5,900
130	58.5	6,600	61.5	6,800	64.5	6,200	66.5	5,800	64.5	6,800	67.5	7,300	69.5	6,400	71.5	5,800
135	57.0	6,200	59.5	6,300	62.5	6,100	65.0	5,700	63.0	6,300	66.0	6,700	68.5	6,200	70.5	5,700
140	55.0	5,700	58.0	5,900	61.0	5,900	63.0	5,600	62.0	5,800	64.5	6,200	67.0	6,100	69.0	5,600
145	53.5	5,400	56.0	5,500	59.5	5,800	61.5	5,500	60.5	5,300	63.0	5,700	66.0	5,900	67.5	5,500
150	51.5	5,000	54.5	5,200	57.5	5,400	59.5	5,400	59.0	4,900	61.5	5,200	64.5	5,600	66.5	5,400
155	50.0	4,700	52.5	4,800	55.5	5,000	57.5	5,200	57.5	4,400	60.0	4,800	63.0	5,200	65.0	5,300
160	48.0	4,300	50.5	4,500	53.5	4,700	55.5	4,800	56.0	4,000	58.5	4,400	61.5	4,700	63.5	5,000
165	46.0	4,000	48.5	4,200	51.5	4,300	53.0	4,500	54.0	3,600	56.5	4,000	59.5	4,300	61.5	4,600
170	44.0	3,700	46.5	3,900	49.5	4,000	51.0	4,100	52.5	3,300	55.0	3,600	58.0	3,900	60.0	4,200
175	41.5	3,500	44.5	3,600	47.0	3,700	48.0	3,800	51.0	2,900	53.5	3,200	56.0	3,500	58.0	3,800
180	39.5	3,200	42.0	3,300	44.5	3,500	45.5	3,500	49.5	2,600	52.0	2,900	54.5	3,200	56.0	3,400
185	37.0	3,000	39.5	3,100	42.0	3,200			47.5	2,300	50.0	2,500	52.5	2,800	54.0	3,000
190	34.5	2,700	37.0	2,800	39.0	2,900			46.0	2,000	48.0	2,200	50.5	2,500	52.0	2,600
195	31.5	2,500	34.0	2,600	36.0	2,700			44.0	1,700	46.5	1,900	48.5	2,200	50.0	2,300
200	28.5	2,300	31.0	2,400	32.5	2,500			42.0	1,400	44.5	1,600	46.5	1,800	47.5	1,900
205	24.5	2,200	27.0	2,200							42.5	1,300	44.5	1,500	45.5	1,600
210	20.0	2,000	22.0	2,100									42.5	1,200		
215	11.5	2,000														
Min.Bm. Ang./Cap.	8.5		8.0		0.0	1,200	0.0	1,400	40.0		40.5		41.5		41.0	
Radius (ft)	215.4		214.4		210.7		204.3		205.0		210.0		211.7		213.3	
Max. Boom Length At 0° Boom Angle (ft)		147														



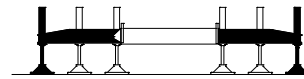
PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds

73.0' Offset Fly



2°, 15°, 30°, 45°



Full

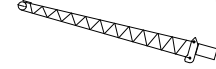
60,000 lb



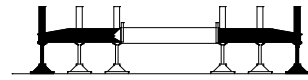
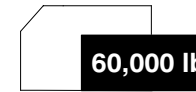
Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
40	79.0	13,300														
45	78.0	13,000														
50	76.5	12,800							79.0	11,200						
55	75.5	12,500	78.5	11,000					78.0	11,200						
60	74.0	12,200	77.0	10,800					77.0	11,100						
65	72.5	11,900	75.5	10,500	79.0	9,100			76.0	10,900	78.5	9,900				
70	71.0	11,600	74.0	10,200	77.5	8,900			75.0	10,800	77.5	9,700				
75	70.0	11,300	72.5	10,000	76.5	8,700			73.5	10,600	76.0	9,500	79.5	8,400		
80	68.5	11,000	71.0	9,800	75.0	8,500	78.0	7,700	72.5	10,400	75.0	9,400	78.0	8,300		
85	67.0	10,700	69.5	9,600	73.5	8,400	76.5	7,600	71.5	10,200	74.0	9,200	77.0	8,200		
90	65.5	10,500	68.0	9,300	71.5	8,100	74.5	7,300	70.0	10,100	72.5	9,100	75.5	8,000	78.0	7,300
95	63.5	10,000	66.5	8,900	70.0	7,800	73.0	7,100	69.0	9,900	71.5	8,900	74.5	7,900	77.0	7,100
100	62.0	9,500	65.0	8,500	68.5	7,500	71.0	6,900	67.5	9,700	70.0	8,800	73.0	7,700	75.5	6,900
105	60.5	9,100	63.5	8,200	66.5	7,200	69.5	6,700	66.5	9,500	69.0	8,600	71.5	7,500	74.0	6,700
110	58.5	8,700	61.5	7,800	65.0	7,000	67.5	6,500	65.0	9,400	67.5	8,300	70.5	7,200	72.5	6,600
115	57.0	8,300	60.0	7,600	63.0	6,800	65.5	6,300	64.0	9,100	66.0	8,000	69.0	7,000	71.5	6,400
120	55.0	8,000	58.0	7,300	61.5	6,600	64.0	6,200	62.5	8,400	64.5	7,700	67.5	6,800	70.0	6,200
125	53.5	7,700	56.0	7,000	59.5	6,400	62.0	6,000	60.5	7,800	63.5	7,500	66.0	6,600	68.5	6,100
130	51.5	7,400	54.0	6,800	57.5	6,200	59.5	5,900	59.0	7,200	62.0	7,300	64.5	6,400	66.5	6,000
135	49.5	7,200	52.0	6,600	55.5	6,000	57.5	5,800	57.5	6,600	60.5	7,000	63.0	6,300	65.0	5,800
140	47.5	6,700	50.0	6,400	53.5	5,900	55.5	5,700	56.0	6,100	58.5	6,500	61.5	6,100	63.5	5,700
145	45.0	6,300	48.0	6,200	51.0	5,800	53.0	5,600	54.0	5,600	57.0	6,000	60.0	6,000	62.0	5,600
150	43.0	5,900	46.0	6,000	48.5	5,600	50.5	5,500	52.5	5,100	55.0	5,500	58.0	5,800	60.0	5,500
155	40.5	5,600	43.5	5,700	46.0	5,600	47.5	5,500	50.5	4,700	53.5	5,000	56.5	5,400	58.5	5,400
160	37.5	5,200	40.5	5,400	43.5	5,500			48.5	4,200	51.5	4,600	54.5	4,900	56.5	5,200
165	35.0	4,900	38.0	5,000	40.5	5,200			47.0	3,800	49.5	4,100	52.5	4,500	54.0	4,700
170	32.0	4,600	34.5	4,700	37.0	4,800			45.0	3,500	47.5	3,700	50.5	4,100	52.0	4,300
175	28.5	4,400	31.0	4,500	33.0	4,500			43.0	3,100	45.5	3,400	48.0	3,700	49.5	3,800
180	24.5	4,100	27.0	4,200					40.5	2,800	43.0	3,000	46.0	3,300	47.0	3,400
185	19.0	4,000	21.5	4,000					38.5	2,400	41.0	2,700	43.5	2,900		
190	8.5	3,600							36.0	2,100	38.5	2,300	40.5	2,500		
195									33.5	1,800	36.0	2,000	38.0	2,200		
200										30.5	1,600	33.0	1,700	34.5	1,900	
205									27.5	1,300	30.0	1,500	31.0	1,500		
210											26.0	1,200				
Min.Bm. Ang./Cap.	0.0	1,800	0.0	1,800	0.0	2,000	0.0	2,200	24.0		24.5		25.5		24.0	
Radius (ft)	190.1		189.2		185.6		179.5		210.0		211.7		210.3		205.3	
Max. Boom Length At 0° Boom Angle (ft)		134														



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**Rated Lifting Capacities
In Pounds****91.0' Offset Fly**

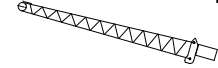
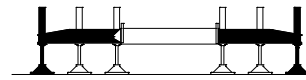
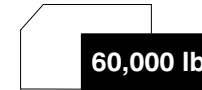
2°, 15°, 30°, 45°

**Full****60,000 lb**

Load Radius (ft)	163' Boom								195.3' Boom													
	2°		15°		30°		45°		2°		15°		30°		45°							
60	79.0	6,800							79.0	5,200												
65	78.0	6,800																				
70	77.5	6,800																				
75	76.5	6,800	79.0	6,800					78.5	5,200												
80	75.5	6,800	78.0	6,800					77.5	5,200												
85	74.5	6,800	77.0	6,800					77.0	5,200												
90	73.5	6,800	76.0	6,800	79.0	6,200			76.0	5,200	78.5	5,200										
95	73.0	6,800	75.0	6,700	78.0	5,900			75.5	5,200	77.5	5,200										
100	72.0	6,800	74.0	6,400	76.5	5,700			79.0	5,200	74.5	5,200					77.0	5,200				
105	70.5	6,700	73.0	6,100	75.5	5,500	78.0	5,000	74.0	5,200	76.0	5,200	79.0	5,300								
110	69.5	6,500	71.5	5,900	74.5	5,200	76.5	4,800	73.0	5,200	75.5	5,200	78.0	5,200								
115	68.5	6,200	70.5	5,600	73.0	5,000	75.5	4,700	72.5	5,200	74.5	5,200	77.0	5,000			79.0	4,600				
120	67.0	5,900	69.5	5,400	72.0	4,800	74.0	4,500	71.5	5,200	73.5	5,200	76.0	4,900	78.0	4,400						
125	66.0	5,600	68.0	5,200	70.5	4,700	73.0	4,300	70.5	4,800	73.0	5,200	75.0	4,700	77.0	4,300						
130	64.5	5,100	67.0	5,000	69.5	4,500	71.5	4,200	69.0	4,300	71.5	4,800	74.0	4,500	76.0	4,200						
135	63.0	4,700	65.5	4,800	68.0	4,300	70.0	4,100	68.0	3,800	70.5	4,300	73.0	4,400	75.0	4,000						
140	61.5	4,400	64.5	4,600	67.0	4,200	69.0	3,900	66.5	3,400	69.0	3,800	72.0	4,200	73.5	3,900						
145	60.5	4,000	63.0	4,300	65.5	4,000	67.5	3,800	65.5	2,900	68.0	3,300	70.5	3,800	72.5	3,800						
150	59.0	3,700	61.5	3,900	64.0	3,900	66.0	3,700	64.0	2,500	66.5	2,900	69.5	3,400	71.5	3,700						
155	57.5	3,400	60.0	3,600	63.0	3,800	64.5	3,600	63.0	2,100	65.0	2,500	68.0	3,000	70.0	3,300						
160	56.0	3,100	58.5	3,300	61.5	3,500	63.0	3,500	61.5	1,800	64.0	2,100	66.5	2,600	69.0	2,900						
165	54.5	2,800	57.0	3,000	59.5	3,200	61.5	3,400	60.5	1,400	62.5	1,800	65.5	2,200	67.5	2,500						
170	53.0	2,500	55.5	2,700	58.0	2,900	60.0	3,100				61.5	1,400	64.0	1,800	66.0	2,100					
175	51.0	2,200	53.5	2,400	56.5	2,600	58.0	2,800						62.5	1,500	64.5	1,700					
180	49.5	2,000	52.0	2,200	54.5	2,400	56.5	2,500							63.0	1,400						
185	48.0	1,800	50.5	1,900	53.0	2,100	54.5	2,200														
190	46.0	1,500	48.5	1,700	51.0	1,900	52.5	2,000														
195	44.5	1,300	46.5	1,500	49.0	1,600	50.5	1,700														
200			45.0	1,300	47.0	1,400	48.0	1,500														
205						45.0	1,200	46.0									1,200					
Min.Bm. Ang./Cap.	42.5		43.5		44.0		45.0		59.0		60.0		61.0		62.0							
Radius (ft)	200.0		203.3		207.5		207.5		170.0		175.0		180.0		183.8							
Max. Boom Length At 0° Boom Angle (ft)		122																				


 PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054

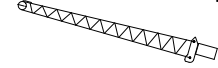
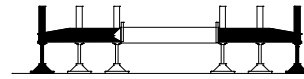
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**Rated Lifting Capacities
In Pounds**
91.0' Offset Fly

2°, 15°, 30°, 45°

Full

60,000 lb


Load Radius (ft)	151' Boom								180.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
55	79.0	8,000														
60	78.5	8,000														
65	77.5	8,000							79.0	6,300						
70	76.5	8,000	79.0	8,000					78.5	6,300						
75	75.5	8,000	78.0	8,000					77.5	6,300						
80	74.5	8,000	77.0	7,800					76.5	6,300	79.0	6,400				
85	73.5	8,000	76.0	7,400	78.5	6,600			76.0	6,300	78.0	6,400				
90	72.5	7,800	74.5	7,100	77.5	6,300			75.0	6,300	77.5	6,400				
95	71.0	7,400	73.5	6,700	76.0	6,000	78.5	5,600	74.0	6,300	76.5	6,400	79.0	6,000		
100	70.0	7,100	72.0	6,400	75.0	5,800	77.5	5,300	73.5	6,300	75.5	6,400	78.0	5,800		
105	68.5	6,800	71.0	6,200	73.5	5,500	76.0	5,100	72.5	6,300	74.5	6,300	77.0	5,600	79.0	5,100
110	67.5	6,500	69.5	5,900	72.5	5,300	75.0	4,900	71.5	6,300	73.5	6,000	76.0	5,300	78.0	4,900
115	66.0	6,200	68.5	5,600	71.0	5,100	73.5	4,800	70.5	6,300	72.5	5,800	75.0	5,100	77.0	4,700
120	65.0	5,900	67.0	5,400	70.0	4,900	72.0	4,600	69.5	6,200	71.5	5,600	74.0	5,000	76.0	4,600
125	63.5	5,600	65.5	5,200	68.5	4,700	70.5	4,400	68.5	5,900	70.5	5,400	73.0	4,800	75.0	4,400
130	62.0	5,400	64.5	5,000	67.0	4,500	69.5	4,300	67.5	5,700	69.5	5,100	71.5	4,600	73.5	4,300
135	60.5	5,200	63.0	4,800	65.5	4,400	68.0	4,100	66.5	5,500	68.0	5,000	70.5	4,400	72.5	4,100
140	59.5	4,900	61.5	4,600	64.5	4,200	66.5	4,000	65.0	5,100	67.0	4,800	69.5	4,300	71.5	4,000
145	57.5	4,500	60.0	4,400	63.0	4,100	65.0	3,900	63.5	4,700	66.0	4,600	68.5	4,200	70.0	3,900
150	56.0	4,200	58.5	4,300	61.5	3,900	63.5	3,800	62.5	4,200	65.0	4,400	67.0	4,000	69.0	3,800
155	54.5	3,900	57.0	4,100	60.0	3,800	61.5	3,700	61.0	3,800	63.5	4,200	66.0	3,900	67.5	3,700
160	53.0	3,600	55.5	3,800	58.5	3,700	60.0	3,600	59.5	3,500	62.0	3,800	64.5	3,800	66.5	3,600
165	51.5	3,300	54.0	3,500	56.5	3,600	58.5	3,500	58.0	3,100	60.5	3,400	63.5	3,700	65.0	3,500
170	49.5	3,000	52.0	3,200	55.0	3,400	56.5	3,400	57.0	2,700	59.0	3,100	62.0	3,500	63.5	3,400
175	47.5	2,800	50.5	2,900	53.0	3,100	54.5	3,300	55.5	2,400	57.5	2,700	60.5	3,100	62.5	3,300
180	46.0	2,500	48.5	2,700	51.0	2,800	52.5	3,000	54.0	2,100	56.0	2,400	59.0	2,700	61.0	3,000
185	44.0	2,300	46.5	2,400	49.0	2,600	50.5	2,700	52.5	1,800	54.5	2,100	57.5	2,400	59.0	2,600
190	42.0	2,100	44.5	2,200	47.0	2,300	48.0	2,400	51.0	1,500	53.0	1,800	55.5	2,100	57.5	2,300
195	40.0	1,800	42.5	2,000	44.5	2,100	45.5	2,200	49.0	1,200	51.5	1,500	54.0	1,800	55.5	1,900
200	37.5	1,600	40.0	1,800	42.5	1,900					50.0	1,200	52.5	1,500	53.5	1,600
205	35.5	1,500	38.0	1,600	40.0	1,700							50.5	1,200	52.0	1,300
210	33.0	1,300	35.0	1,400	37.0	1,500										
215			32.5	1,200	34.0	1,300										
Min.Bm. Ang./Cap.	30.0		31.0		30.5		27.5		48.5		49.5		50.0		50.5	
Radius (ft)	215.0		217.5		220.0		220.0		196.7		201.7		206.7		208.3	
Max. Boom Length At 0° Boom Angle (ft)		121														


 PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054

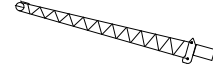
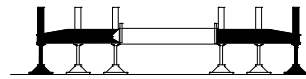
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**Rated Lifting Capacities
In Pounds**
91.0' Offset Fly

2°, 15°, 30°, 45°

Full
60,000 lb


Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
50	78.0	11,000														
55	77.0	11,000							79.0	8,600						
60	76.0	11,000	78.5	10,000					78.0	8,600						
65	74.5	10,500	77.5	9,500					77.5	8,600						
70	73.5	9,900	76.0	8,900					76.5	8,600	79.0	8,700				
75	72.0	9,300	74.5	8,400	78.0	7,600			75.5	8,600	78.0	8,600				
80	70.5	8,700	73.5	8,000	76.5	7,200			74.5	8,600	77.0	8,200	79.5	7,200		
85	69.5	8,300	72.0	7,600	75.5	6,900	78.0	6,400	73.5	8,600	75.5	7,800	78.5	6,900		
90	68.0	7,800	70.5	7,200	74.0	6,500	76.5	6,100	72.5	8,300	74.5	7,400	77.5	6,600		
95	66.5	7,400	69.0	6,800	72.5	6,200	75.0	5,800	71.0	7,900	73.5	7,100	76.0	6,300	78.5	5,800
100	65.0	7,000	67.5	6,500	71.0	5,900	73.5	5,600	70.0	7,500	72.0	6,800	75.0	6,000	77.0	5,600
105	63.5	6,700	66.0	6,200	69.5	5,600	72.0	5,300	68.5	7,100	71.0	6,500	73.5	5,800	76.0	5,400
110	62.0	6,300	64.5	5,900	68.0	5,400	70.5	5,100	67.5	6,800	69.5	6,200	72.5	5,500	74.5	5,100
115	60.5	6,000	63.0	5,600	66.5	5,200	69.0	4,900	66.0	6,500	68.5	5,900	71.0	5,300	73.5	4,900
120	59.0	5,700	61.5	5,400	64.5	4,900	67.0	4,700	65.0	6,200	67.0	5,700	70.0	5,100	72.0	4,800
125	57.5	5,500	60.0	5,100	63.0	4,700	65.5	4,500	63.5	5,900	66.0	5,400	68.5	4,900	71.0	4,600
130	55.5	5,200	58.5	4,900	61.5	4,600	63.5	4,400	62.5	5,700	64.5	5,200	67.5	4,700	69.5	4,400
135	54.0	5,000	56.5	4,700	59.5	4,400	62.0	4,200	61.0	5,500	63.5	5,000	66.0	4,600	68.0	4,300
140	52.5	4,800	55.0	4,500	58.0	4,200	60.0	4,100	59.5	5,200	62.0	4,800	64.5	4,400	66.5	4,200
145	50.5	4,600	53.0	4,300	56.0	4,100	58.0	4,000	58.5	5,000	60.5	4,600	63.0	4,200	65.0	4,000
150	48.5	4,400	51.5	4,200	54.0	3,900	56.0	3,800	57.0	4,600	59.0	4,500	61.5	4,100	63.5	3,900
155	47.0	4,300	49.5	4,000	52.0	3,800	54.0	3,700	55.0	4,200	57.5	4,300	60.0	4,000	62.0	3,800
160	45.0	4,100	47.5	3,900	50.0	3,700	52.0	3,600	53.5	3,800	56.0	4,100	58.5	3,800	60.5	3,700
165	42.5	4,000	45.5	3,800	48.0	3,600	49.5	3,500	52.0	3,400	54.5	3,700	57.0	3,700	59.0	3,600
170	40.5	3,800	43.0	3,600	45.5	3,500	47.0	3,500	50.0	3,000	53.0	3,400	55.5	3,600	57.0	3,500
175	38.0	3,600	41.0	3,600	43.5	3,400			48.5	2,700	51.0	3,000	54.0	3,300	55.5	3,400
180	35.5	3,400	38.5	3,500	40.5	3,400			46.5	2,400	49.0	2,600	52.0	3,000	53.5	3,200
185	33.0	3,100	35.5	3,300	37.5	3,300			45.0	2,000	47.5	2,300	50.0	2,600	51.5	2,800
190	30.0	2,900	32.5	3,000	34.5	3,100			43.0	1,800	45.5	2,000	48.0	2,300	49.0	2,400
195	26.5	2,800	29.0	2,800	30.5	2,900			41.0	1,500	43.5	1,700	46.0	1,900	47.0	2,000
200	22.0	2,600	24.5	2,600					39.0	1,200	41.5	1,400	43.5	1,600		
205	16.5	2,500	18.5	2,500									41.5	1,300		
Min.Bm. Ang./Cap.	12.0		12.5		12.0		11.5		38.5		39.0		40.0		39.5	
Radius (ft)	207.3		206.6		202.2		194.3		201.7		205.0		208.3		208.8	
Max. Boom Length At 0° Boom Angle (ft)		111														



PORTLAND OFFICE: 503.283.3111
SEATTLE OFFICE: 206.784.1054
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**Rated Lifting Capacities
In Pounds**
109.0' Offset Fly

2°, 15°, 30°, 45°

Full
60,000 lb

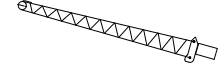

Load Radius (ft)	163' Boom								195.3' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
65	79.5	5,200														
70	78.5	5,200														
75	78.0	5,200														
80	77.0	5,200	78.5	5,200												
85	76.0	5,200														
90	75.5	5,200														
95	74.5	5,200	76.5	4,900	78.0	4,300			77.0	3,100						
100	73.5	5,100	75.5	4,700					76.0	3,100						
105	72.5	4,800	74.5	4,400					77.0	3,100						
110	71.5	4,500	73.5	4,200	76.0	3,800	78.0	3,600	74.5	3,100	77.0	3,100	78.5	3,100		
115	70.5	4,300	72.5	4,000	75.0	3,600	77.0	3,400	74.0	3,100	76.5	3,100				
120	69.5	4,100	71.5	3,800	74.0	3,400	76.0	3,200	73.0	3,100	75.5	3,100				
125	68.0	3,900	70.0	3,600	72.5	3,300	75.0	3,100	72.5	3,100	74.5	3,100	76.5	2,700	78.5	2,400
130	67.0	3,700	69.0	3,400	71.5	3,100	73.5	2,900	71.5	2,900	73.5	2,900	76.0	2,500	77.5	2,300
135	66.0	3,500	68.0	3,200	70.5	2,900	72.5	2,800	70.5	2,500	72.5	2,700	75.0	2,400	76.5	2,200
140	64.5	3,300	67.0	3,100	69.5	2,800	71.5	2,600	69.0	2,000	71.5	2,500	74.0	2,200	76.0	2,000
145	63.5	3,100	65.5	2,900	68.0	2,600	70.0	2,500	68.0	1,600	70.5	2,100	73.0	2,100	75.0	1,900
150	62.5	2,900	64.5	2,800	67.0	2,500	69.0	2,400	67.0	1,200	69.5	1,700	72.0	2,000	74.0	1,800
155	61.0	2,600	63.0	2,600	65.5	2,400	67.5	2,300			68.5	1,300	71.0	1,700	73.0	1,600
160	59.5	2,400	62.0	2,500	64.5	2,300	66.0	2,200			70.0	1,300	72.0	1,500		
165	58.5	2,100	60.5	2,300	63.0	2,200	65.0	2,000					71.0	1,300		
170	57.0	1,800	59.5	2,000	62.0	2,100	63.5	2,000								
175	55.5	1,600	58.0	1,800	60.5	2,000	62.0	1,900								
180	54.0	1,300	56.5	1,500	59.0	1,700	60.5	1,800								
185			55.0	1,300	57.5	1,500	59.0	1,600								
190					56.0	1,200	57.5	1,400								
Min.Bm. Ang./Cap.	52.5		54.0		55.5		56.0		66.5		68.0		69.5		70.5	
Radius (ft)	185.0		188.3		192.5		195.0		151.3		157.5		162.5		167.5	
Max. Boom Length At 0° Boom Angle (ft)		77														



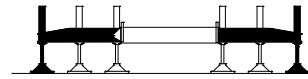
PORTLAND OFFICE: 503.283.3111
 SEATTLE OFFICE: 206.784.1054
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Rated Lifting Capacities In Pounds

109.0' Offset Fly



2°, 15°, 30°, 45°



Full

60,000 lb



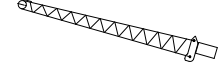
Load Radius (ft)	151' Boom								180.3' Boom									
	2°		15°		30°		45°		2°		15°		30°		45°			
65	78.5	6,200							79.5	4,800								
70	78.0	6,200							79.0	4,800								
75	77.0	6,200							79.0	4,800								
80	76.0	6,200	78.5	6,000					78.5	4,800								
85	75.0	6,100	77.5	5,600					77.5	4,800								
90	74.0	5,800	76.0	5,300					79.0	4,900							77.0	4,800
95	73.0	5,400	75.0	5,000	78.0	4,600	79.0	4,100	76.0	4,800	78.0	4,600	79.5	3,800				
100	72.0	5,100	74.0	4,800	76.5	4,400			75.5	4,800	77.0	4,300					79.5	3,800
105	70.5	4,900	73.0	4,500	75.5	4,100			78.0	3,900	74.5	4,500					76.5	4,100
110	69.5	4,600	71.5	4,300	74.5	3,900	76.5	3,700	73.5	4,200	75.5	3,800	77.5	3,400	80.0	3,100		
115	68.5	4,300	70.5	4,000	73.0	3,700	75.5	3,500	72.5	4,000	74.5	3,600	76.5	3,200	79.0	2,900		
120	67.0	4,100	69.5	3,800	72.0	3,500	74.0	3,300	71.5	3,800	73.5	3,400	76.0	3,000	78.0	2,800		
125	66.0	3,900	68.0	3,600	71.0	3,300	73.0	3,200	70.5	3,500	72.5	3,200	75.0	2,800	77.0	2,600		
130	64.5	3,700	67.0	3,400	69.5	3,200	71.5	3,000	69.5	3,300	71.5	3,000	74.0	2,700	75.5	2,400		
135	63.5	3,500	65.5	3,300	68.5	3,000	70.5	2,800	68.5	3,100	70.5	2,800	73.0	2,500	74.5	2,300		
140	62.5	3,300	64.5	3,100	67.0	2,800	69.0	2,700	67.5	3,000	69.5	2,700	71.5	2,300	73.5	2,100		
145	61.0	3,100	63.0	2,900	66.0	2,700	68.0	2,600	66.5	2,800	68.5	2,500	70.5	2,200	72.5	2,000		
150	59.5	3,000	62.0	2,800	64.5	2,600	66.5	2,400	65.5	2,600	67.5	2,400	69.5	2,100	71.5	1,900		
155	58.5	2,800	60.5	2,600	63.0	2,400	65.0	2,300	64.5	2,500	66.5	2,200	68.5	1,900	70.5	1,800		
160	57.0	2,700	59.0	2,500	61.5	2,300	63.5	2,200	63.5	2,300	65.0	2,100	67.5	1,800	69.5	1,600		
165	55.5	2,600	58.0	2,400	60.5	2,200	62.0	2,100	62.0	2,000	64.0	1,900	66.5	1,700	68.0	1,500		
170	54.0	2,300	56.5	2,300	59.0	2,100	60.5	2,000	60.5	1,700	63.0	1,800	65.5	1,600	67.0	1,400		
175	52.5	2,100	55.0	2,100	57.5	2,000	59.0	1,900	59.5	1,300	62.0	1,700	64.0	1,500	66.0	1,300		
180	51.0	1,800	53.5	2,000	56.0	1,900	57.5	1,800			60.5	1,300	63.0	1,400	64.5	1,200		
185	49.5	1,600	52.0	1,800	54.5	1,800	56.0	1,800					62.0	1,300				
190	48.0	1,400	50.0	1,500	52.5	1,700	54.0	1,700										
195	46.0	1,200	48.5	1,300	51.0	1,500	52.5	1,600										
200					49.0	1,200	50.5	1,300										
Min.Bm. Ang./Cap.	45.5		46.5		48.0		48.0		58.5		60.0		61.0		63.5			
Radius (ft)	197.5		200.0		202.5		205.0		178.3		183.3		188.3		185.0			
Max. Boom Length At 0° Boom Angle (ft)		76																



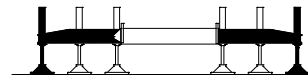
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Rated Lifting Capacities In Pounds

109.0' Offset Fly



2°, 15°, 30°, 45°



Full

60,000 lb



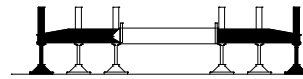
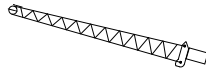
Load Radius (ft)	125.7' Boom								155' Boom							
	2°		15°		30°		45°		2°		15°		30°		45°	
55	78.5	8,500							79.5	6,700						
60	77.5	8,500														
65	76.5	8,200	79.0	7,600					78.5	6,700						
70	75.0	7,600	77.5	7,100					77.5	6,700						
75	74.0	7,100	76.5	6,700					77.0	6,700	79.0	6,700				
80	72.5	6,700	75.0	6,300	78.5	5,900			76.0	6,700	78.0	6,400				
85	71.5	6,300	74.0	5,900	77.0	5,500			75.0	6,500	77.0	6,000				
90	70.0	5,900	72.5	5,500	75.5	5,200	78.5	5,000	74.0	6,100	76.0	5,700	78.5	5,200		
95	69.0	5,500	71.5	5,200	74.5	4,900	77.0	4,700	73.0	5,800	75.0	5,400	77.5	4,900		
100	67.5	5,200	70.0	4,900	73.0	4,600	75.5	4,400	71.5	5,500	74.0	5,100	76.5	4,600	78.5	4,400
105	66.0	4,900	68.5	4,600	71.5	4,300	74.0	4,200	70.5	5,200	72.5	4,800	75.5	4,400	77.5	4,100
110	65.0	4,600	67.5	4,300	70.5	4,100	73.0	3,900	69.5	4,900	71.5	4,500	74.0	4,200	76.5	3,900
115	63.5	4,300	66.0	4,100	69.0	3,800	71.5	3,700	68.5	4,600	70.5	4,300	73.0	3,900	75.0	3,700
120	62.0	4,100	64.5	3,900	67.5	3,600	70.0	3,500	67.0	4,400	69.5	4,100	72.0	3,700	74.0	3,500
125	60.5	3,900	63.0	3,600	66.0	3,400	68.5	3,300	66.0	4,100	68.0	3,800	70.5	3,500	73.0	3,300
130	59.0	3,600	61.5	3,400	64.5	3,200	67.0	3,100	65.0	3,900	67.0	3,600	69.5	3,400	71.5	3,200
135	57.5	3,400	60.0	3,200	63.0	3,100	65.5	3,000	63.5	3,700	66.0	3,500	68.5	3,200	70.5	3,000
140	56.0	3,200	58.5	3,100	61.5	2,900	64.0	2,800	62.5	3,500	64.5	3,300	67.0	3,000	69.0	2,900
145	54.5	3,100	57.0	2,900	60.0	2,700	62.0	2,700	61.0	3,400	63.5	3,100	66.0	2,900	68.0	2,700
150	53.0	2,900	55.5	2,700	58.5	2,600	60.5	2,500	60.0	3,200	62.0	3,000	64.5	2,700	66.5	2,600
155	51.5	2,700	54.0	2,600	57.0	2,500	58.5	2,400	58.5	3,000	61.0	2,800	63.5	2,600	65.0	2,500
160	50.0	2,600	52.5	2,500	55.0	2,300	57.0	2,300	57.5	2,900	59.5	2,700	62.0	2,500	64.0	2,400
165	48.0	2,500	50.5	2,300	53.5	2,200	55.0	2,200	56.0	2,700	58.0	2,500	60.5	2,300	62.5	2,200
170	46.5	2,300	49.0	2,200	51.5	2,100	53.0	2,100	54.5	2,600	57.0	2,400	59.0	2,200	61.0	2,100
175	44.5	2,200	47.0	2,100	49.5	2,000	51.0	2,000	53.0	2,200	55.5	2,300	58.0	2,100	59.5	2,000
180	42.5	2,100	45.0	2,000	47.5	1,900	49.0	1,900	51.5	1,900	54.0	2,200	56.5	2,000	58.0	2,000
185	40.5	2,000	43.0	1,900	45.5	1,800	46.5	1,800	50.0	1,600	52.5	1,900	55.0	1,900	56.5	1,900
190	38.5	2,000	41.0	1,800	43.5	1,800			48.5	1,300	51.0	1,600	53.5	1,800	54.5	1,800
195	36.5	1,900	38.5	1,800	41.0	1,700					49.0	1,300	51.5	1,600	53.0	1,700
200	34.0	1,800	36.5	1,700	38.5	1,700							50.0	1,300	51.0	1,400
205	31.0	1,700	33.5	1,700	35.5	1,700										
210	28.0	1,500	30.5	1,600	32.0	1,600										
215	25.0	1,400	27.0	1,400												
220	20.5	1,300	22.5	1,300												
Min.Bm. Ang./Cap.	13.5		14.5		20.5		24.5		47.5		48.0		48.5		49.0	
Radius (ft)	225.2		225.0		220.1		210.9		193.3		198.3		203.3		205.0	
Max. Boom Length At 0° Boom Angle (ft)			73													



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Rated Lifting Capacities In Pounds

18.0' Fly Extension



Full

60,000 lb



Load Radius (ft)	163.0' Boom		195.3' Boom		151.0' Boom		180.3' Boom		125.7' Boom		155.0' Boom		
	Boom Mode EM1				Boom Mode EM2				Boom Mode EM3				
30									77.0	34,500	79.5	28,300	
35	77.5	16,600			77.5	24,600	79.5	16,500	75.0	34,500	78.5	28,300	
40	76.5	16,600	78.5	13,400	76.0	24,600	78.0	16,500	73.0	33,600	77.0	28,300	
45	75.0	16,600	77.5	13,400	75.0	24,600	77.0	16,500	71.0	30,500	75.5	28,300	
50	73.5	16,600	76.5	13,400	73.5	24,600	76.0	16,500	69.0	27,900	74.0	27,700	
55	72.0	16,600	75.5	13,400	71.5	22,800	74.5	16,500	66.5	25,600	72.5	25,200	
60	71.0	16,600	74.5	13,400	69.5	20,300	73.5	16,500	64.5	23,600	70.5	23,100	
65	69.5	16,600	73.5	13,400	68.0	19,800	72.0	16,500	62.0	21,800	69.0	21,100	
70	68.0	16,600	72.0	13,400	66.0	18,400	71.0	16,500	60.0	20,500	67.0	19,700	
75	66.0	16,200	71.0	13,400	64.0	17,100	69.5	16,500	57.5	19,100	65.0	18,100	
80	64.5	15,000	70.0	13,400	62.0	15,900	68.0	16,200	55.0	17,800	63.0	16,700	
85	62.5	14,000	68.5	13,400	60.0	14,800	66.5	15,000	52.5	16,600	61.5	15,400	
90	60.5	13,100	67.5	13,400	58.0	13,900	65.0	13,900	49.5	15,500	59.5	14,200	
95	59.0	12,200	66.0	12,400	56.0	13,000	63.0	12,900	47.0	14,500	57.0	13,100	
100	57.0	11,400	64.5	11,500	53.5	12,200	61.5	12,000	44.0	13,600	55.0	12,100	
105	55.0	10,700	62.5	10,600	51.5	11,400	59.5	11,100	41.0	12,800	53.0	11,200	
110	53.0	10,000	61.0	9,900	49.0	10,700	58.0	10,300	37.5	12,000	50.5	10,300	
115	50.5	9,400	59.5	9,100	46.5	10,100	56.0	9,500	33.5	11,300	48.5	9,600	
120	48.5	8,800	57.5	8,400	44.0	9,500	54.0	8,800	29.5	10,700	46.0	8,800	
125	46.0	8,200	56.0	7,800	41.5	8,900	52.0	8,200	24.5	10,100	43.5	8,100	
130	43.5	7,700	54.0	7,200	38.5	8,400	50.0	7,600	18.5	9,600	40.5	7,500	
135	41.0	7,200	52.5	6,600	35.5	7,900	48.0	7,000	5.5	7,900	37.5	6,900	
140	38.5	6,800	50.5	6,100	32.0	7,400	46.0	6,400				34.5	6,300
145	35.5	6,400	48.5	5,600	28.5	7,000	43.5	5,900				31.0	5,800
150	32.5	6,000	46.5	5,100	24.0	6,600	41.5	5,400			27.5	5,300	
155	29.0	5,600	44.5	4,600	18.0	6,300	39.0	5,000			22.5	4,800	
160	25.0	5,300	42.0	4,200	8.0	5,900	36.0	4,600			16.5	4,400	
165	20.0	5,000	40.0	3,800			33.0	4,200					
170	13.0	4,700	37.5	3,400			30.0	3,800					
175			35.0	3,100			26.5	3,400					
180			32.0	2,700			22.0	3,100					
185			29.0	2,400			16.5	2,800					
190			25.5	2,100									
195			21.5	1,800									
200			16.0	1,600									
Min.Bm. Ang./Cap.	0.0	1,100	11.0		0.0	2,200	6.0		0.0	4,800	0.0	1,800	
Radius (ft)	172.4		201.9		160.4		188.0		135.2		164.5		
Maximum Main Boom Length At 0° Boom Angle (ft)		163			166				155				



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