

SERIAL NUMBER:

XXXX-XXXX

CRANE RATING MANUAL

RTC-8090 *Series II*
5 - Section Boom

For Replacement, Order Part Number: N4P0090
(110509)

Link-Belt®
CONSTRUCTION EQUIPMENT

® Link-Belt is a registered trademark.

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Not for crane operations



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 operating on tires over the side, do not exceed maximum boom angle shown on Backward Stability Chart. Loss of backward stability will occur causing a backward tipping condition.
4. When operating on tires, they must be inflated to the recommended pressure. (See Tire Inflation.)
5. For required parts of line, see Wire Rope Capacity Chart and Winch Performance.
6. Before setting up the crane, refer to Allowable Crane Configuration 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 J–765.
4. Rated lifting capacities in the shaded areas are based on structural strength or hydraulic limitations and have been tested to meet minimum requirements of SAE J–1063 cantilevered boom crane structures – method of test. Rated lifting capacities in non–shaded areas are based on stability ratings.
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 either 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. Boom extend mode EM3 is a fixed boom length load rating chart. Rated lifting capacities are based on all sections pinned together or the boom fully extended. When in EM3, do not attempt to extend or retract loads greater than 10,000 lb.
11. For main boom capacities 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 or fly is dangerous and shall be avoided.
13. Rated lifting capacities do not account for the effects of wind on a suspended load or boom. Lifting capacities should be considered acceptable for wind speeds up to 20 mph and appropriately reduced for wind speeds greater than 20 mph. (See Wind Speed Restrictions.)
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. 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'.
16. Rated lifting capacities are based on correct reeving. Deduction must be made for excessive reeving. Any reeving over minimum required is considered excessive and must be accounted for when making lifts. Use Working Range Diagram to estimate the extra feet of rope, then deduct the required rope weight (listed on the Wire Rope Capacity Chart) for each extra foot of wire rope before attempting to lift a load.
17. The loaded boom angle combined with the boom length give 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.
18. Fly capacities are determined by radius only for fully extended boom lengths of 115.8' and 140'. For fly capacities with main boom length less than fully extended, the rated capacities are determined by the boom angle. For angles not shown use the next lower boom angle to determine the rated capacity.
19. The 38' 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 50' boom length.
20. 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. Pick and carry operations are restricted to speeds of 2.5 mph and creep. The boom must be centered over the front of the crane with two position travel swing lock engaged and the load must be restrained from swinging. Lifts with any fly erected on tires are prohibited. For correct tire pressure, see Tire Inflation.

Definitions:

1. Loaded Boom Angle In Degrees: $\angle^\circ$ 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.
8. Creep: Crane movement limited to 200' in a 30 minute period and not to exceed 1 mph maximum speed.

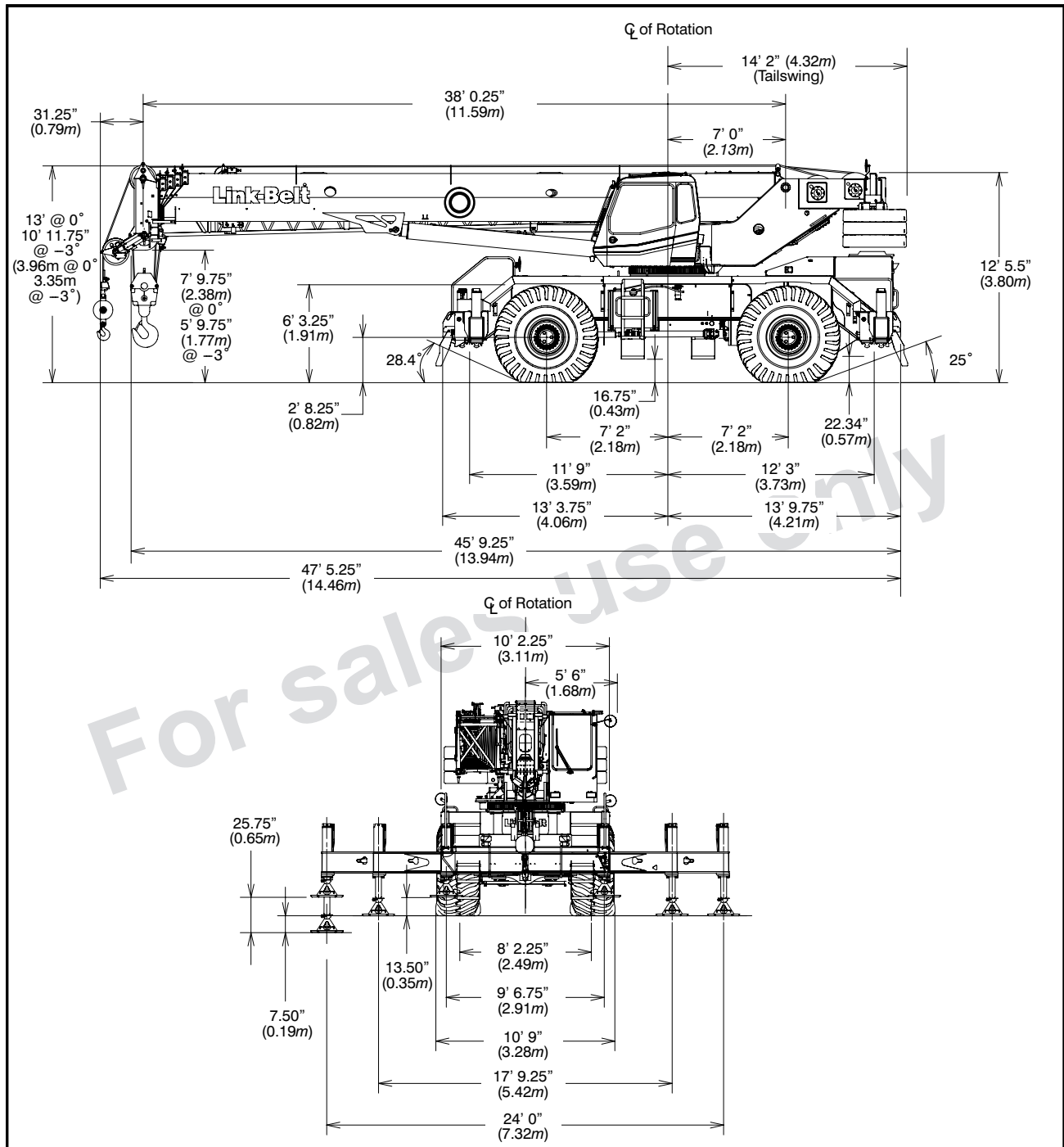
Patents:

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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General Dimensions



Tire Inflation

Tire Size	Operation	Tire Pressure (psi)
29.5 x 25	Stationary	75
	Creep	75
	2.5 mph	65

Pontoon Loadings

Maximum Pontoon Load (lb)	Maximum Pontoon Ground Bearing Pressure (psi)
108,000	235

Boom Extend Modes

Boom Length (ft)	Boom Telescope Length (ft)				
	T4	T3	T2	T1	
50	12.0				EM 1
60	22.0				
70	24.2	7.8			
80	24.2	17.8			
90	24.2	25.1	2.7		
100	24.2	25.1	12.7		
110	24.2	25.1	22.7		
120	24.2	25.1	25.9	6.8	
130	24.2	25.1	25.9	16.8	
140	24.2	25.1	25.9	26.8	
Boom Length (ft)	Boom Telescope Length (ft)				
	T4	T3	T2	T1	
50		12.0			EM 2
60		22.0			
70		25.1	6.9		
80		25.1	16.9		
90		25.1	25.9	1.0	
100		25.1	25.9	11.0	
115.8		25.1	25.9	26.8	
Boom Length (ft)	Boom Fixed Length (ft)				
	T4	T3	T2	T1	
50.7		12.7			EM 3
63.7		12.7	13.0		
76.5		12.7	13.0	12.8	

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Boom Mode Performance – General Reference Guide

Shaded areas reflect maximum capacity at radius, based on boom modes and boom lengths.

0 (lb) Counterweight			9,600 (lb) Counterweight			19,200 (lb) Counterweight			28,800 (lb) Counterweight		
	EM 1	EM 2	EM 3		EM 1	EM 2	EM 3		EM 1	EM 2	EM 3
Rad (ft)	Boom Length (ft)			Rad (ft)	Boom Length (ft)			Rad (ft)	Boom Length (ft)		
	50	50.7			50	50.7			50	50.7	
10				10				10			
30				30				30			
40				40				40			
	60	63.7			60	63.7			60	63.7	
10				10				10			
30				30				30			
50				50				50			
	70				70				70		
10				10				10			
30				30				30			
50				50				50			
60				60				60			
	80	76.5			80	76.5			80	76.5	
12				12				12			
30				30				30			
50				50				50			
70				70				70			
	90				90				90		
15				15				15			
40				40				40			
60				60				60			
80				80				80			
	100				100				100		
20				20				20			
40				40				40			
60				60				60			
80				80				80			
90				90				90			
	110	115.8			110	115.8			110	115.8	
20				20				20			
40				40				40			
60				60				60			
80				80				80			
100				100				100			

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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	16,880	7,595	114	114
2	15,519	6,982	124	238
3	14,362	6,461	134	372
4	13,365	6,013	144	516
5	12,497	5,623	154	670
6	N/A	N/A	164	834
*Maximum lifting capacity: Type GC Rope=22,400 lb, Type RB Rope=12,920 lb, Type ZB Rope=15,600 lb				

Wire Rope Capacity Chart

Maximum Lifting Capacities Based On Wire Rope Strength				Wire Rope Line Pull – Third Layer*
Parts of Line	3/4" Type GC	3/4" Type RB	3/4" Type ZB	
1	22,400	12,920	15,600	14,362
2	44,800	25,840	31,200	28,724
3	67,200	38,760	46,800	43,086
4	89,600	51,680	62,400	57,448
5	112,000	64,600	78,000	71,810
6	134,400	77,520	93,600	86,172
7	156,800	90,440	109,200	100,534
8	179,200	103,360	124,800	114,896
9	201,600	116,280	140,400	129,258
10	224,000	129,200	156,000	143,620
11	—	142,120	171,600	157,982
12	—	155,040	187,200	172,344
Rope Weight—Pounds Per Foot	1.1	1.2	1.3	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	36 X 7 Non–Rotating – Extra Improved Plow Steel – Right Regular Lay			

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

Notes:

- Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the 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 10 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 third layer. See Wire Rope Capacity Chart above.)

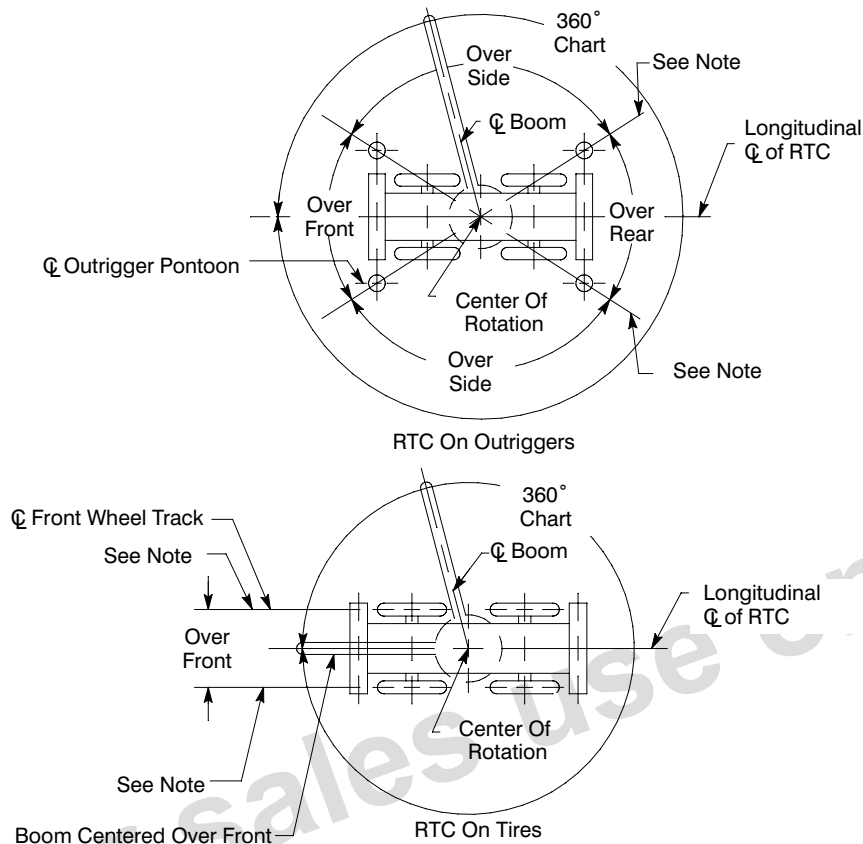
If using other than the third layer, calculate per the follow examples:

Using the 1st layer line pull to lift from: $(\text{Load(lb)})/16,880 = \text{Parts of line}$

Using the 4th layer line pull to lift from: $(\text{Load(lb)})/13,365 = \text{Parts of line}$

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.

Working Areas



Note: These Lines Determine The Limiting Position Of Any Load For Operation Within Working Areas Indicated.

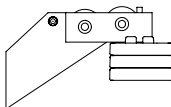
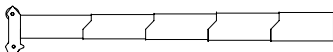
Capacity Deductions

Load Handling Equipment	Weight (lb)
40 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	900
60 Ton Quick Reeve 4 Sheave Hook Block (See Hook Block For Actual Weight)	1,100
80 Ton Quick Reeve 5 Sheave Hook Block (See Hook Block For Actual Weight)	1,406
90 Ton Quick Reeve 6 Sheave Hook Block (See Hook Block For Actual Weight)	1,554
8.5 Ton Hook Ball (See Hook Ball For Actual Weight)	360
10 Ton Hook Ball (See Hook Ball For Actual Weight)	583

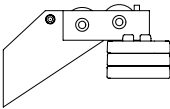
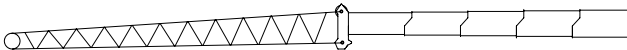
Auxiliary Lifting Devices	Weight (lb)
Auxiliary Head Attached	100
Lifting From Main Boom With:	
35' or 58' Fly Stowed On Boom Base (See Operation Note 5)	0
35' Offset Fly Erected But Not Used	8,300
58' Offset Fly Erected But Not Used	17,900
74' or 90' Offset Fly Erected But Not Used	Prohibited
16' Fly Erected But Not Used	2,900
Lifting From 35' Offset Fly With:	
23' Fly Tip Erected But Not Used	Prohibited
23' Fly Tip Stowed On 35' Offset Fly	Prohibited

Note: Capacity deductions are for Link-Belt supplied equipment only.

Allowable Crane Configuration – Main Boom

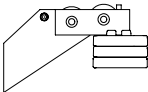
					
		Boom Length (ft)			
Outrigger Position	Counterweight (lb)	EM 1	EM 2	EM 3	
Full	0	38–140	38–115.8	38–76.5	
	9,600				
	19,200				
	28,800				
Intermediate	0	38–120	38–100		
	9,600	38–140	38–115.8		
	19,200				
	28,800				
Retracted	0	38–90	38–70		
	9,600	38–110	38–90		
	19,200	38–120	38–115.8		
	28,800	38–130			
On Tires	0	38–80	Not Allowed		
	9,600	38–100			
	19,200	38–110			
	28,800				

Allowable Crane Configuration – Main Boom + Attachments

							
Outrigger Position	Counterweight (lb)	Fly Length (ft)		Boom Length (ft)			
							
		35' Fly	58' Fly	74' Fly	90' Fly	16' Ext.	
Full	0	EM1 38–140 EM2 38–115.8			Not Allowed		
	9,600						
	19,200				EM1 38–140		
	28,800						
Intermediate	0	EM1 38–140 EM2 38–115.8			Not Allowed		
	9,600						
	19,200						
	28,800						
Retracted	0–28,800						
On Tires							

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Backward Stability – Maximum Boom Angle

					
Counterweight (lb)	On Tires		Outrigger Position		
	Side	Front/Rear	Retracted	Intermediate	Full
0	80°	80°	80°	80°	
9,600	75°				
19,200	60°		75°		
28,800	42°		61°		
Maximum boom angle is based on retracted boom at the least stable over side position.					

Wind Speed Restrictions

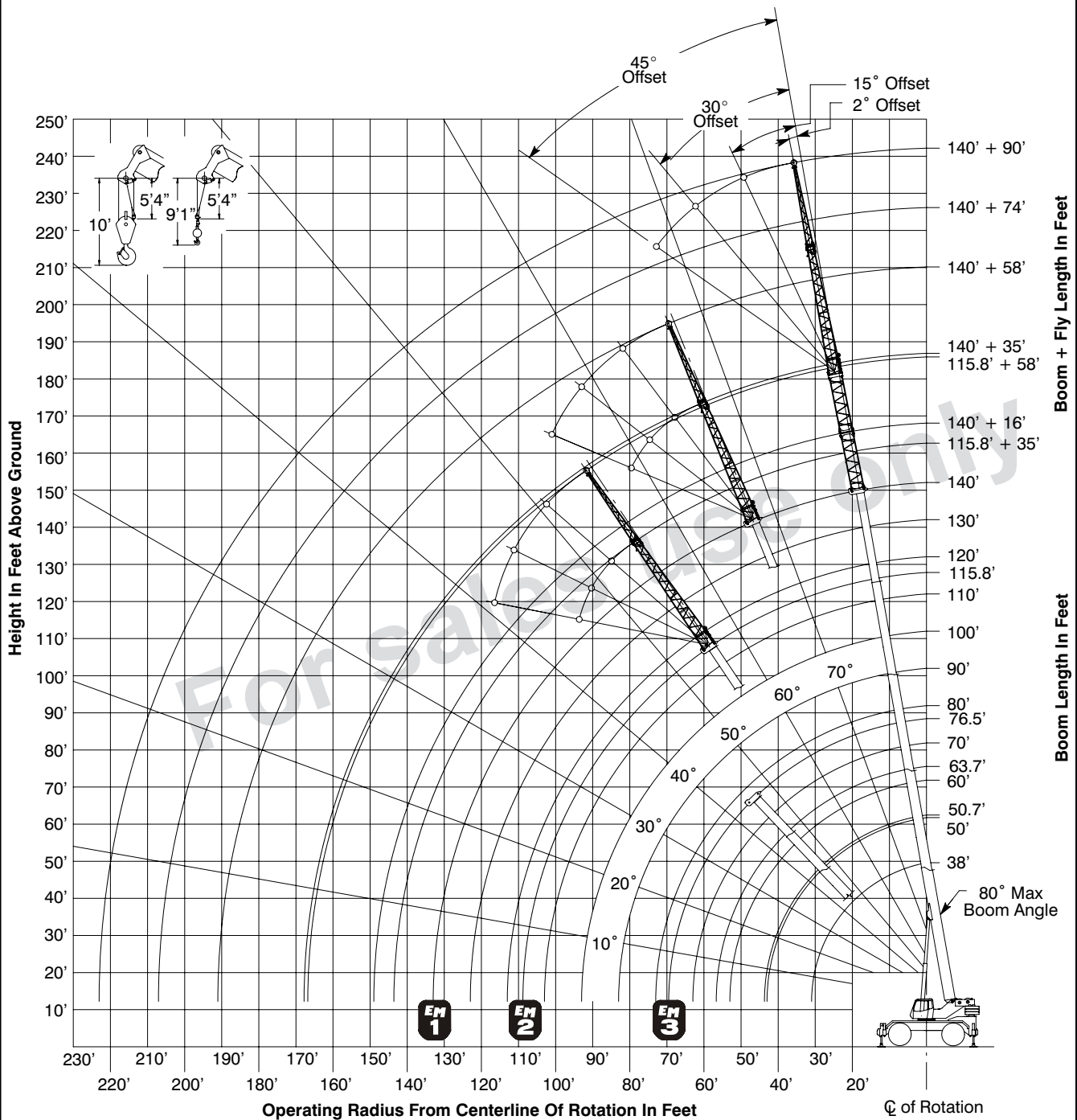
If The Wind Speed Is:	Rated Lifted Capacities Must Be Reduced By At Least:
0–20 mph	Normal Lifting Operations (See Capacity Charts)
21–29 mph	40%
30–39 mph	70%
40 mph or Greater	Crane operation must be shutdown and the boom retracted and lowered to horizontal.
- Additional reductions are required for loads with large wind sail area. - These restrictions are based on crane on fully extended outriggers. - During high winds (above 21 mph), the operator shall add 10° to all minimum boom angles due to no load stability and shall not boom down below that angle.	

Hydraulic Circuit Pressure Settings

Function	Pressure (psi)
Front And Rear Winch	3,500
Outriggers	3,000
Boom Hoist	4,300
Telescope	4,300
Swing	2,000
Steering	2,500
Pilot Control	500

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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.

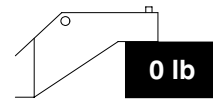
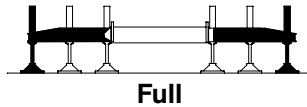


WARNING

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

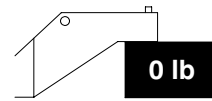
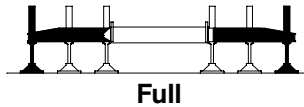


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
10	68.0	145,900	145,900	74.0	80,400	80,400	77.0	58,000	58,000
12	64.5	121,400	121,400	71.5	75,000	75,000	75.0	53,700	53,700
15	59.0	96,000	96,000	67.5	68,000	68,000	72.0	48,400	48,400
20	49.5	69,800	69,800	61.0	59,000	59,000	67.0	41,300	41,300
25	37.5	49,000	49,900	54.0	52,200	52,200	61.5	36,100	36,100
30	18.0	32,000	33,100	46.0	36,100	37,100	55.5	32,000	32,000
35				36.5	26,200	27,200	49.0	28,000	28,700
40				24.0	19,900	20,900	42.0	21,600	22,500
45							33.5	17,200	18,000
50							21.5	13,900	14,600
Min.Bm. Ang./Cap.	0.0	29,500	30,600	0.0	17,000	17,900	0.0	12,200	12,900
Radius (ft)	31.0			43.0			53.0		

Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
10	79.5	55,900	55,900						
12	77.5	52,300	52,300	79.5	41,800	41,800			
15	75.0	47,500	47,500	77.5	41,800	41,800	79.0	33,500	33,500
20	71.0	41,100	41,100	74.0	41,800	41,800	76.0	33,500	33,500
25	66.5	36,300	36,300	70.0	37,900	37,900	73.0	33,500	33,500
30	61.5	32,400	32,400	66.0	33,900	33,900	69.5	31,400	31,400
35	56.5	28,800	29,200	62.0	29,300	30,300	66.0	28,100	28,100
40	51.0	22,400	23,300	57.5	22,900	23,800	62.0	23,100	24,000
45	45.5	17,900	18,700	53.0	18,300	19,100	58.0	18,500	19,300
50	38.5	14,600	15,300	48.0	15,000	15,700	54.0	15,200	15,900
55	31.0	12,100	12,800	42.5	12,500	13,100	49.5	12,700	13,300
60	20.0	10,100	10,700	36.0	10,500	11,100	45.0	10,700	11,300
65				29.0	8,800	9,400	40.0	9,000	9,600
70				18.5	7,500	8,000	34.0	7,700	8,200
75							27.0	6,500	7,100
80							17.5	5,600	6,000
Min.Bm. Ang./Cap.	0.0	9,000	9,600	0.0	6,800	7,300	0.0	5,000	5,500
Radius (ft)	63.0			73.0			83.0		

Not for crane operations

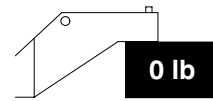
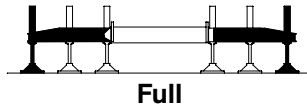
Rated Lifting Capacities In Pounds



Load Radius (ft)	100.0 ft			110.0 ft			120.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
20	77.5	32,100	32,100	79.0	27,200	27,200			
25	75.0	32,100	32,100	76.5	27,200	27,200	78.0	28,000	28,000
30	72.0	32,100	32,100	74.0	27,200	27,200	76.0	28,000	28,000
35	69.0	29,400	29,700	71.5	27,200	27,200	73.5	28,000	28,000
40	65.5	22,900	23,800	68.5	22,800	23,700	71.0	22,400	23,300
45	62.0	18,400	19,200	65.5	18,200	19,100	68.0	17,900	18,700
50	58.5	15,000	15,800	62.0	14,900	15,700	65.0	14,500	15,300
55	55.0	12,600	13,200	59.0	12,500	13,100	62.0	12,100	12,700
60	51.0	10,500	11,200	55.5	10,400	11,100	59.0	10,100	10,800
65	47.0	8,900	9,500	52.0	8,800	9,400	56.0	8,500	9,100
70	42.5	7,600	8,100	48.5	7,400	8,000	53.0	7,100	7,700
75	37.5	6,400	6,900	44.5	6,300	6,800	49.5	6,000	6,500
80	32.5	5,400	5,900	40.5	5,300	5,800	46.5	5,000	5,500
85	26.0	4,600	5,100	36.0	4,500	5,000	42.5	4,200	4,700
90	17.0	3,900	4,300	31.0	3,800	4,200	38.5	3,500	3,900
95				24.5	3,200	3,600	34.5	2,800	3,300
100				16.0	2,600	3,000	29.5	2,300	2,700
105							23.5	1,800	2,200
110							15.5	1,300	1,700
Min.Bm. Ang./Cap.	0.0	3,500	3,900	0.0	2,300	2,700	0.0	1,100	1,400
Radius (ft)	93.0			103.0			113.0		

Load Radius (ft)	130.0 ft			140.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
25	79.5	26,900	26,900			
30	77.5	26,500	26,500	78.5	24,400	24,400
35	75.5	26,300	26,300	77.0	24,100	24,100
40	73.0	21,900	22,800	75.0	21,500	22,400
45	70.0	17,400	18,200	72.5	17,000	17,800
50	67.5	14,100	14,900	70.0	13,700	14,500
55	65.0	11,700	12,400	67.5	11,300	12,100
60	62.0	9,700	10,400	65.0	9,400	10,000
65	59.5	8,100	8,700	62.5	7,700	8,400
70	56.5	6,700	7,300	60.0	6,400	7,000
75	54.0	5,600	6,100	57.5	5,300	5,800
80	51.0	4,700	5,200	54.5	4,300	4,800
85	47.5	3,800	4,300	52.0	3,500	4,000
90	44.5	3,100	3,600	49.0	2,800	3,200
95	41.0	2,500	2,900	46.0	2,200	2,600
100	37.0	1,900	2,300	43.0	1,600	2,000
105	33.0	1,400	1,800	39.5	1,100	1,500
110	28.5	1,000	1,300			
Min.Bm. Ang./Cap.	27.0			38.0		
Radius (ft)	111.1			107.2		

Rated Lifting Capacities In Pounds

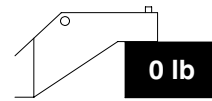
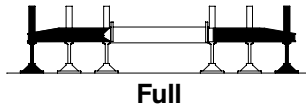


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front
10	68.0	145,900	145,900	74.0	103,300	103,300	77.0	96,400	96,400	79.0	70,800	70,800
12	64.5	121,400	121,400	71.5	103,300	103,300	75.0	89,500	89,500	77.5	70,800	70,800
15	59.0	96,000	96,000	67.5	98,100	98,100	72.0	79,900	79,900	75.0	70,800	70,800
20	49.5	69,800	69,800	61.0	72,000	72,000	67.0	67,800	67,800	71.0	63,500	63,500
25	37.5	49,000	49,900	54.0	52,400	53,200	61.5	54,100	54,800	66.5	54,600	54,800
30	18.0	32,000	33,100	46.0	35,100	36,100	55.5	36,500	37,500	61.5	37,000	38,000
35				36.5	25,400	26,300	49.0	26,600	27,600	56.5	27,000	28,000
40				23.5	19,100	20,000	41.5	20,300	21,300	51.0	20,700	21,700
45							33.0	15,900	16,800	45.0	16,300	17,200
50							21.5	12,700	13,500	38.5	13,100	13,900
55										30.5	10,600	11,400
60										20.0	8,600	9,300
Min.Bm. Ang./Cap.	0.0	29,500	30,600	0.0	16,200	17,100	0.0	11,100	11,800	0.0	7,600	8,200
Radius (ft)	31.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			115.8 ft		
	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front
12	79.5	70,700	70,700									
15	77.5	67,700	67,700	79.0	54,200	54,200						
20	74.0	58,400	58,400	76.0	52,000	52,000	78.0	49,100	49,100			
25	70.0	51,200	51,200	73.0	45,600	45,600	75.0	45,200	45,200	78.0	36,300	36,300
30	66.0	37,100	38,100	69.5	37,200	38,100	72.0	36,600	37,600	76.0	35,900	35,900
35	61.5	27,200	28,100	65.5	27,200	28,200	68.5	26,700	27,700	72.5	26,000	27,000
40	57.0	20,900	21,800	61.5	20,900	21,800	65.0	20,400	21,400	69.5	19,900	20,800
45	52.5	16,400	17,300	57.5	16,500	17,300	61.5	16,000	16,900	66.5	15,500	16,300
50	47.5	13,200	14,000	53.5	13,200	14,000	58.0	12,800	13,600	63.5	12,400	13,100
55	42.0	10,800	11,500	49.0	10,800	11,500	54.5	10,400	11,100	60.5	9,900	10,600
60	36.0	8,800	9,400	44.5	8,800	9,500	50.5	8,400	9,100	57.5	8,000	8,600
65	28.5	7,200	7,800	39.5	7,200	7,800	46.5	6,800	7,500	54.5	6,400	7,000
70	18.5	5,800	6,400	34.0	5,900	6,500	42.0	5,500	6,100	51.0	5,100	5,700
75				27.0	4,800	5,300	37.5	4,400	5,000	47.5	4,000	4,500
80				17.5	3,800	4,300	32.0	3,500	4,000	44.0	3,000	3,600
85							25.5	2,700	3,200	40.0	2,200	2,700
90							16.5	2,000	2,400	35.5	1,500	2,000
Min.Bm. Ang./Cap.	0.0	5,100	5,700	0.0	3,300	3,800	0.0	1,600	2,000	32.0		
Radius (ft)	73.0			83.0			93.0			93.7		

Not for crane operations

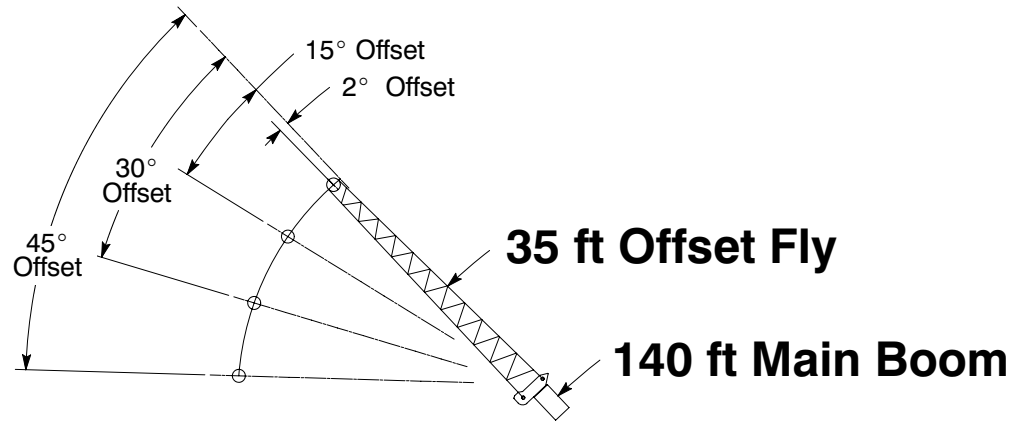
**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**

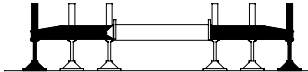
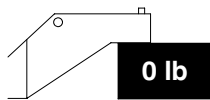


Load Radius (ft)	38.0 ft			50.7 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
10	68.0	145,900	145,900	74.5	147,700	147,700
12	64.5	121,400	121,400	72.0	123,400	123,400
15	59.0	96,000	96,000	68.0	98,200	98,200
20	49.5	69,800	69,800	61.5	72,100	72,100
25	37.5	49,000	49,900	54.5	52,500	53,300
30	18.0	32,000	33,100	46.5	35,200	36,200
35				37.5	25,500	26,400
40				25.5	19,200	20,200
Min.Bm. Ang./Cap.	0.0	29,500	30,600	0.0	15,700	16,600
Radius (ft)		31.0			43.7	

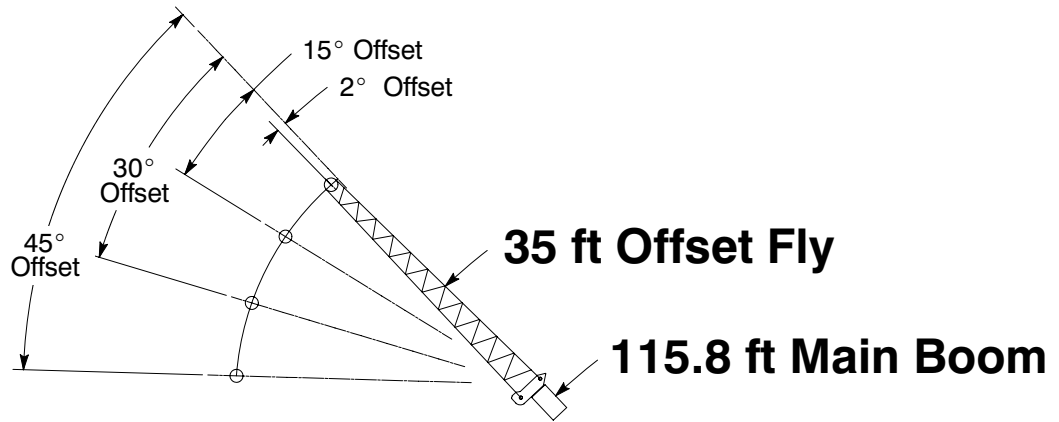
Load Radius (ft)	63.7 ft			76.5 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
10	78.0	117,900	117,900			
12	76.0	108,800	108,800	79.0	85,100	85,100
15	73.5	98,500	98,500	76.5	78,400	78,400
20	68.5	72,500	72,500	72.5	72,000	72,000
25	63.0	53,300	54,000	68.5	52,400	53,200
30	57.5	35,800	36,900	64.0	35,200	36,200
35	52.0	26,000	27,000	59.5	25,500	26,400
40	45.5	19,800	20,700	55.0	19,200	20,200
45	38.5	15,400	16,300	50.0	14,900	15,800
50	29.5	12,200	13,000	44.5	11,800	12,600
55	16.5	9,700	10,400	38.5	9,300	10,100
60				31.5	7,400	8,100
65				22.5	5,800	6,400
Min.Bm. Ang./Cap.	0.0	9,000	9,600	0.0	4,600	5,100
Radius (ft)		56.7			69.5	

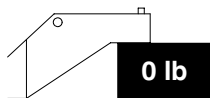
Not for crane operations



Rated Lifting Capacities In Pounds			 Full		 0 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	12,100	80.0	11,500				
40	78.5	12,100						
45	77.5	12,100						
50	76.0	12,100	78.5	11,400	79.5	10,000		
55	74.5	12,100	77.0	11,200				
60	72.5	10,200	75.5	11,000				
65	70.5	8,500	73.5	9,400	76.5	9,700	78.5	8,800
70	68.5	7,100	71.5	7,900	74.5	8,700	77.0	8,800
75	66.5	6,000	69.5	6,700	72.5	7,400	75.0	8,000
80	64.5	5,000	67.0	5,600	70.0	6,300	72.5	6,800
85	62.5	4,100	65.0	4,700	68.0	5,300	70.0	5,800
90	60.0	3,400	63.0	3,900	65.5	4,500	68.0	4,900
95	58.0	2,700	61.0	3,200	63.5	3,700	65.5	4,100
100	56.0	2,200	58.5	2,600	61.5	3,100	63.0	3,400
105	53.5	1,700	56.5	2,100	59.0	2,500	60.5	2,700
110	51.5	1,200	54.0	1,600	56.5	1,900	58.0	2,200
115			52.0	1,100	54.0	1,500	55.5	1,700
120					51.5	1,000	53.0	1,200
Min.Bm. Ang./Cap.	49.5		50.0		50.0		51.5	
Radius (ft)	114.1		119.3		123.5		123.0	
Maximum Boom Length At 0° Boom Angle (ft)	107							

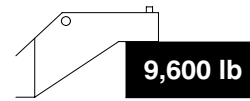
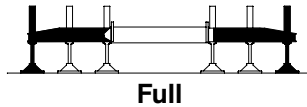
Not for crane operations



Rated Lifting Capacities In Pounds			 Full		 0 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
30	79.5	20,000						
35	78.0	19,000						
40	76.0	18,100						
45	74.5	17,200	78.5	13,700				
50	72.0	13,900	77.0	13,200				
55	69.5	11,500	75.0	12,700				
60	67.5	9,500	73.0	12,300	80.0	11,100	78.0	10,800
65	65.0	7,800			76.0	10,500		
70	62.5	6,500				10,300	78.5	9,400
75	60.5	5,300	70.5	10,500	74.0	9,700	76.5	9,200
80	58.0	4,300	68.5	8,700	72.0	8,100	74.0	9,100
85	55.5	3,500	66.0	7,300	69.5	6,800	72.0	8,800
90	53.0	2,800				6,600		
95	50.5	2,100	63.5	6,000	66.5	5,700	69.5	7,400
100	47.5	1,600	61.0	5,000	64.0	4,700	66.5	6,200
105	45.0	1,100	58.5	4,100	61.5	3,800	64.0	5,100
110			56.0	3,300	59.0	3,100	61.0	4,200
			53.5	2,600	56.0	2,400	58.0	3,400
			50.5	2,000	53.5	1,800	55.0	2,700
			48.0	1,400	50.5	1,300	52.0	2,000
			45.0	1,000	47.5		48.5	1,400
Min.Bm. Ang./Cap.	44.0		44.0		44.0		45.0	
Radius (ft)	106.7		111.4		114.8		115.0	
Maximum Boom Length At 0° Boom Angle (ft)	92							

Not for crane operations

Rated Lifting Capacities In Pounds

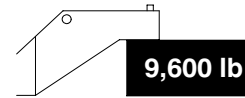
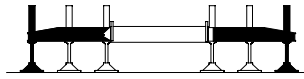


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
9	69.5	160,000	160,000						
10	68.0	152,300	152,300	74.0	80,400	80,400	77.0	58,000	58,000
12	64.5	129,700	129,700	71.5	75,000	75,000	75.0	53,700	53,700
15	59.0	102,800	102,800	67.5	68,000	68,000	72.0	48,400	48,400
20	49.5	75,000	75,000	61.0	59,000	59,000	67.0	41,300	41,300
25	37.5	57,800	57,800	54.0	52,200	52,200	61.5	36,100	36,100
30	18.5	43,200	43,800	46.0	46,900	46,900	55.5	32,000	32,000
35				36.5	35,000	35,600	49.0	28,700	28,700
40				24.0	27,100	27,700	42.0	26,100	26,100
45							33.5	23,200	23,900
50							22.0	19,100	19,700
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	18,200	18,200	0.0	12,900	12,900
Radius (ft)	31.0			43.0			53.0		

Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
10	79.5	55,900	55,900						
12	77.5	52,300	52,300	79.5	41,800	41,800			
15	75.0	47,500	47,500	77.5	41,800	41,800	79.0	33,500	33,500
20	71.0	41,100	41,100	74.0	41,800	41,800	76.0	33,500	33,500
25	66.5	36,300	36,300	70.0	37,900	37,900	73.0	33,500	33,500
30	61.5	32,400	32,400	66.0	33,900	33,900	69.5	31,400	31,400
35	56.5	29,200	29,200	62.0	30,400	30,400	66.0	28,100	28,100
40	51.5	26,600	26,600	58.0	27,500	27,500	62.5	25,500	25,500
45	45.5	24,000	24,400	53.0	24,400	25,000	58.5	23,300	23,300
50	39.0	19,800	20,400	48.0	20,300	20,800	54.5	20,500	21,000
55	31.0	16,700	17,300	42.5	17,100	17,600	50.0	17,300	17,800
60	20.5	14,200	14,700	36.5	14,600	15,100	45.5	14,800	15,300
65				29.0	12,600	13,100	40.5	12,700	13,200
70				19.0	10,900	11,400	34.5	11,100	11,600
75							27.5	9,700	10,100
80							18.0	8,500	8,900
Min.Bm. Ang./Cap.	0.0	10,700	10,700	0.0	9,200	9,200	0.0	7,900	7,900
Radius (ft)	63.0			73.0			83.0		

Not for crane operations

Rated Lifting Capacities In Pounds

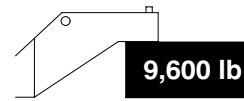
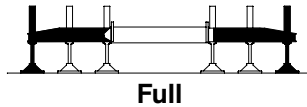


Load Radius (ft)	100.0 ft			110.0 ft			120.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
20	77.5	32,100	32,100	79.0	27,200	27,200			
25	75.0	32,100	32,100	76.5	27,200	27,200	78.0	28,000	28,000
30	72.0	32,100	32,100	74.0	27,200	27,200	76.0	28,000	28,000
35	69.0	29,700	29,700	71.5	27,200	27,200	73.5	28,000	28,000
40	66.0	27,100	27,100	69.0	27,200	27,200	71.5	28,000	28,000
45	62.5	24,500	24,900	66.0	24,300	24,900	68.5	23,900	24,600
50	59.0	20,300	20,900	63.0	20,200	20,800	65.5	19,800	20,400
55	55.5	17,100	17,700	59.5	17,000	17,600	63.0	16,600	17,200
60	51.5	14,600	15,100	56.0	14,500	15,000	60.0	14,100	14,700
65	47.5	12,700	13,100	52.5	12,600	13,000	56.5	12,200	12,700
70	43.0	11,000	11,500	49.0	10,900	11,400	53.5	10,600	11,000
75	38.0	9,600	10,000	45.0	9,500	9,900	50.5	9,200	9,600
80	32.5	8,400	8,800	41.0	8,300	8,700	47.0	8,000	8,400
85	26.0	7,400	7,700	36.5	7,300	7,600	43.0	6,900	7,300
90	17.0	6,400	6,800	31.5	6,400	6,700	39.0	6,000	6,400
95				25.0	5,600	5,900	35.0	5,200	5,600
100				16.5	4,900	5,200	30.0	4,600	4,900
105							24.0	3,900	4,300
110							16.0	3,400	3,700
Min.Bm. Ang./Cap.	0.0	6,000	6,300	0.0	4,500	4,800	0.0	3,100	3,400
Radius (ft)	93.0			103.0			113.0		

Load Radius (ft)	130.0 ft			140.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
25	79.5	26,900	26,900			
30	77.5	26,500	26,500	78.5	24,400	24,400
35	75.5	26,300	26,300	77.0	24,100	24,100
40	73.5	26,100	26,100	75.0	24,000	24,000
45	71.0	23,500	24,100	73.0	23,100	23,700
50	68.5	19,400	20,000	70.5	19,000	19,600
55	65.5	16,200	16,800	68.0	15,900	16,400
60	63.0	13,700	14,300	65.5	13,400	13,900
65	60.0	11,900	12,400	63.0	11,500	12,000
70	57.5	10,200	10,700	60.5	9,900	10,300
75	54.5	8,800	9,200	58.0	8,500	8,900
80	51.5	7,600	8,000	55.5	7,300	7,700
85	48.5	6,600	7,000	52.5	6,200	6,600
90	45.0	5,700	6,100	49.5	5,400	5,700
95	41.5	4,900	5,200	46.5	4,600	4,900
100	37.5	4,200	4,500	43.5	3,900	4,200
105	33.5	3,600	3,900	40.0	3,300	3,600
110	29.0	3,000	3,300	36.5	2,700	3,000
115	23.0	2,500	2,800	32.5	2,200	2,500
120	15.5	2,100	2,300	28.0	1,800	2,100
125				22.5	1,400	1,600
130				15.0	1,000	1,200
Min.Bm. Ang./Cap.	0.0	1,800	2,100	5.0		
Radius (ft)	123.0			132.3		

Not for crane operations

Rated Lifting Capacities In Pounds

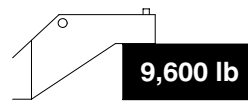
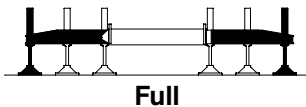


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
9	69.5	160,000	160,000									
10	68.0	152,300	152,300	74.0	103,300	103,300	77.0	96,400	96,400	79.0	70,800	70,800
12	64.5	129,700	129,700	71.5	103,300	103,300	75.0	89,500	89,500	77.5	70,800	70,800
15	59.0	102,800	102,800	67.5	103,300	103,300	72.0	79,900	79,900	75.0	70,800	70,800
20	49.5	75,000	75,000	61.0	77,100	77,100	67.0	67,800	67,800	71.0	63,500	63,500
25	37.5	57,800	57,800	54.0	60,000	60,000	61.5	58,800	58,800	66.5	54,800	54,800
30	18.5	43,200	43,800	46.0	46,300	46,800	55.5	47,700	48,200	61.5	47,800	47,800
35				36.5	34,100	34,700	49.0	35,400	36,000	56.5	35,800	36,400
40				23.5	26,200	26,900	42.0	27,500	28,100	51.0	27,900	28,500
45							33.5	22,000	22,700	45.0	22,400	23,000
50							21.5	18,000	18,600	38.5	18,400	19,000
55										31.0	15,200	15,800
60										20.0	12,800	13,300
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	22,700	23,000	0.0	16,000	16,500	0.0	11,500	12,000
Radius (ft)	31.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			115.8 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
12	79.5	70,700	70,700									
15	77.5	67,700	67,700	79.0	54,200	54,200						
20	74.0	58,400	58,400	76.0	52,000	52,000	78.0	49,100	49,100			
25	70.0	51,200	51,200	73.0	45,600	45,600	75.0	45,200	45,200	78.0	36,300	36,300
30	66.0	45,500	45,500	69.5	40,600	40,600	72.5	42,200	42,200	76.0	35,900	35,900
35	62.0	35,900	36,500	66.0	35,900	36,500	69.0	35,400	36,100	73.5	34,800	35,400
40	57.5	28,000	28,600	62.0	28,000	28,600	65.5	27,500	28,200	70.5	26,900	27,600
45	52.5	22,500	23,200	58.0	22,500	23,200	62.0	22,100	22,800	67.5	21,600	22,200
50	47.5	18,500	19,100	54.0	18,500	19,100	58.5	18,100	18,700	64.5	17,500	18,200
55	42.0	15,300	15,900	49.5	15,400	15,900	55.0	15,000	15,500	61.0	14,500	15,000
60	36.0	12,900	13,400	45.0	12,900	13,400	51.0	12,600	13,100	58.0	12,100	12,700
65	29.0	11,000	11,500	40.0	11,000	11,500	47.0	10,600	11,100	55.0	10,200	10,700
70	18.5	9,300	9,800	34.0	9,300	9,800	42.5	9,000	9,500	51.5	8,500	9,000
75				27.0	8,000	8,400	38.0	7,600	8,100	48.0	7,200	7,600
80				17.5	6,800	7,200	32.5	6,400	6,900	44.5	6,000	6,400
85							26.0	5,400	5,800	40.5	5,000	5,400
90							17.0	4,500	4,900	36.0	4,100	4,500
95										31.0	3,300	3,700
100										25.5	2,700	3,000
105										17.5	2,000	2,400
Min.Bm. Ang./Cap.	0.0	8,400	8,900	0.0	6,100	6,500	0.0	4,000	4,400	0.0	1,600	1,900
Radius (ft)	73.0			83.0			93.0			108.8		

Not for crane operations

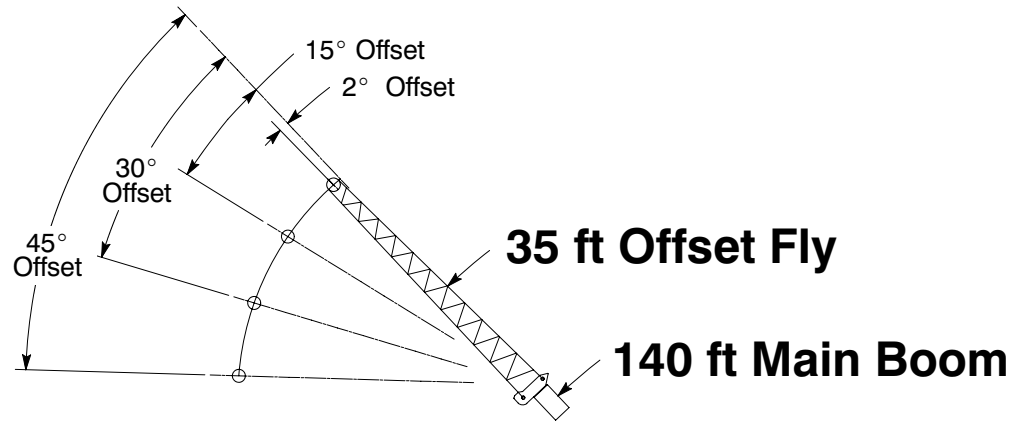
**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**

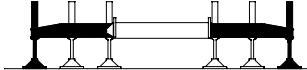
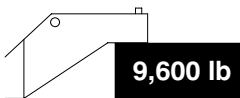


Load Radius (ft)	38.0 ft			50.7 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
9	69.5	160,000	160,000			
10	68.0	152,300	152,300	74.5	152,000	152,000
12	64.5	129,700	129,700	72.0	131,700	131,700
15	59.0	102,800	102,800	68.0	104,900	104,900
20	49.5	75,000	75,000	61.5	77,200	77,200
25	37.5	57,800	57,800	54.5	60,100	60,100
30	18.5	43,200	43,800	47.0	46,400	46,900
35				37.5	34,200	34,800
40				25.5	26,300	27,000
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	22,000	22,600
Radius (ft)	31.0			43.7		

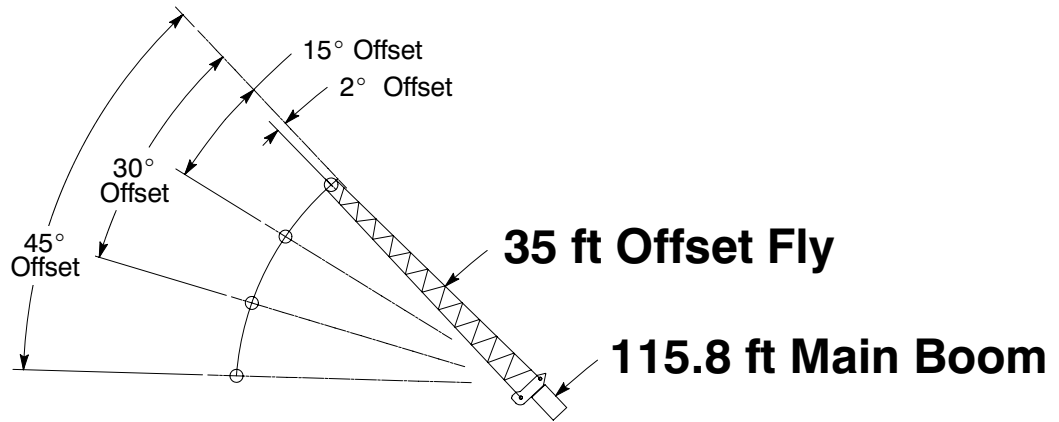
Load Radius (ft)	63.7 ft			76.5 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
10	78.0	117,900	117,900			
12	76.0	108,800	108,800	79.0	85,100	85,100
15	73.5	105,200	105,200	76.5	78,400	78,400
20	68.5	77,600	77,600	73.0	76,500	76,500
25	63.0	60,700	60,700	68.5	60,200	60,200
30	58.0	47,000	47,500	64.5	46,300	46,800
35	52.0	34,800	35,400	60.0	34,200	34,800
40	45.5	26,900	27,600	55.0	26,300	27,000
45	38.5	21,500	22,100	50.0	21,000	21,600
50	29.5	17,500	18,100	44.5	17,000	17,600
55	16.5	14,400	14,900	38.5	13,900	14,500
60				31.5	11,500	12,100
65				22.5	9,600	10,100
Min.Bm. Ang./Cap.	0.0	13,400	14,000	0.0	8,000	8,500
Radius (ft)	56.7			69.5		

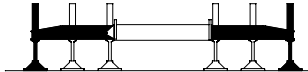
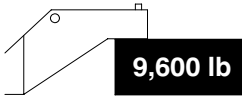
Not for crane operations



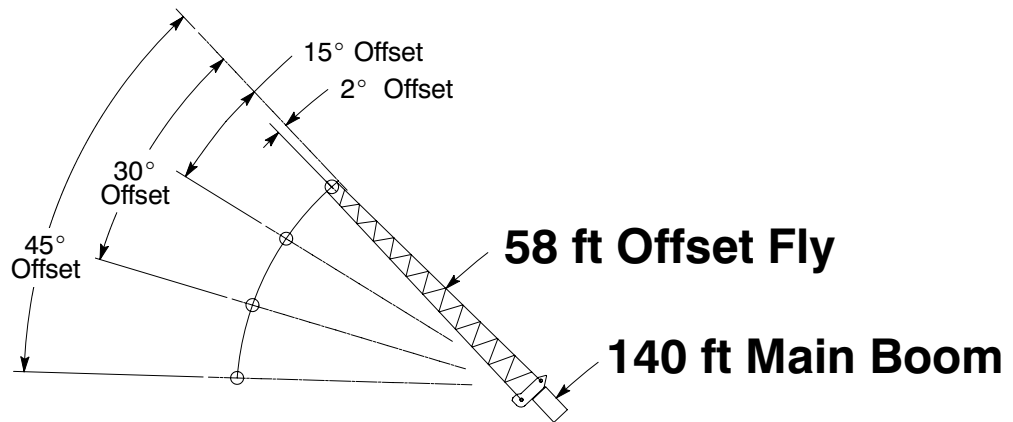
Rated Lifting Capacities In Pounds			 Full		 9,600 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	12,100		11,500				
40	78.5	12,100						
45	77.5	12,100						
50	76.0	12,100	78.5	11,400	79.5	10,000		
55	74.5	12,100	77.0	11,200				
60	73.0	12,100	75.5	11,000				
65	72.0	11,900	74.0	10,800	76.5	9,700	78.5	8,800
70	69.5	10,600	72.5	10,600	75.0	9,500	77.0	8,800
75	67.5	9,100	70.5	9,900	73.5	9,400	75.0	8,700
80	65.5	7,900	68.5	8,600	71.5	9,200	73.5	8,600
85	63.5	6,900	66.5	7,500	69.5	8,100	71.5	8,500
90	61.5	6,000	64.0	6,500	67.0	7,000	69.0	7,400
95	59.0	5,100	62.0	5,600	64.5	6,100	67.0	6,500
100	57.0	4,400	59.5	4,900	62.5	5,300	64.5	5,600
105	54.5	3,800	57.5	4,200	60.0	4,600	62.0	4,900
110	52.5	3,200	55.0	3,600	57.5	4,000	59.5	4,200
115	50.0	2,700	53.0	3,100	55.0	3,400	56.5	3,600
120	47.5	2,300	50.5	2,600	52.5	2,900	54.0	3,000
125	45.0	1,800	48.0	2,100	50.0	2,400	51.0	2,500
130	42.5	1,500	45.0	1,700	47.0	1,900	48.0	2,000
135	40.0	1,100	42.5	1,300	44.5	1,500	45.0	1,600
140			39.5	1,000	41.0	1,100		
Min.Bm. Ang./Cap.	38.0		37.0		39.0		39.0	
Radius (ft)	138.3		144.0		143.3		143.7	
Maximum Boom Length At 0° Boom Angle (ft)	124							

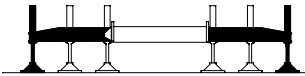
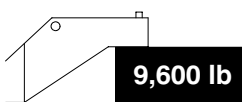
Not for crane operations



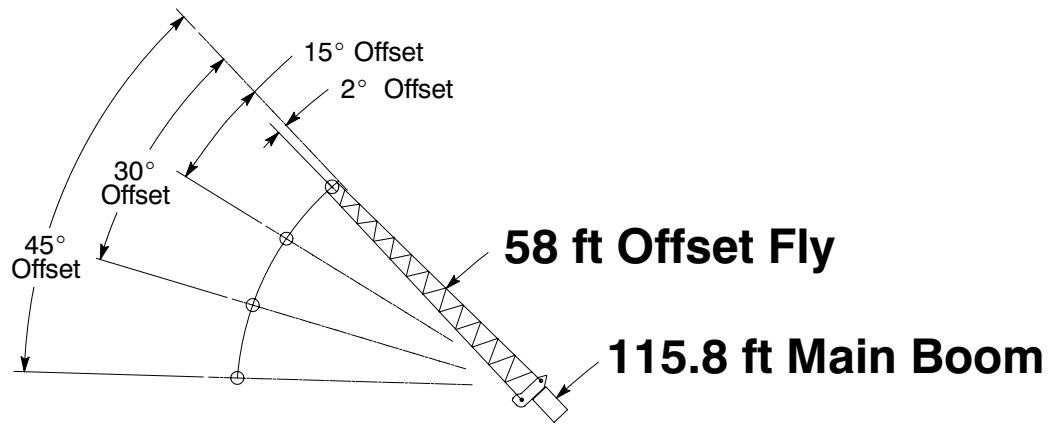
Rated Lifting Capacities In Pounds			 Full		 9,600 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 0°	360°	 0°	360°	 0°	360°	 0°	360°
30	79.5	20,000	78.5	13,700				
35	78.0	19,000						
40	76.0	18,100						
45	74.5	17,200	77.0	13,200	80.0	11,100	78.5	9,400
50	72.5	16,400	75.0	12,700	78.0	10,800		
55	70.5	14,500	73.0	12,300	76.0	10,500		
60	68.5	13,500	71.0	11,900	74.0	10,300	76.5	9,200
65	66.0	11,600	69.0	11,500	72.0	10,000	74.0	9,100
70	63.5	9,900	67.0	10,700	70.0	9,800	72.0	9,000
75	61.0	8,500	64.5	9,200	67.5	9,600	70.0	8,900
80	58.5	7,300	62.0	7,900	65.0	8,600	67.5	8,800
85	56.5	6,200	59.5	6,800	62.5	7,400	65.0	7,900
90	53.5	5,300	57.0	5,900	60.0	6,400	62.0	6,800
95	51.0	4,500	54.0	5,000	57.0	5,500	59.0	5,800
100	48.5	3,800	51.5	4,300	54.0	4,700	56.0	4,900
105	45.5	3,200	48.5	3,600	51.0	4,000	52.5	4,200
110	42.5	2,600	45.5	3,000	48.0	3,300	49.5	3,500
115	39.5	2,100	42.5	2,400	44.5	2,700	45.5	2,800
120	36.0	1,700	39.0	1,900	41.0	2,200		
125	32.5	1,300	35.0	1,500	37.0	1,700		
130	28.5	900	31.0	1,100	32.5	1,200		
Min.Bm. Ang./Cap.	27.0		27.0		27.5		24.0	
Radius (ft)	131.7		133.8		134.5		133.2	
Maximum Boom Length At 0° Boom Angle (ft)	108							

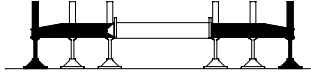
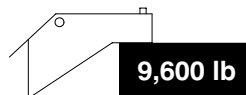
Not for crane operations



Rated Lifting Capacities In Pounds			 Full		 9,600 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
45	79.5	8,500						
50	78.5	8,400						
55	77.5	8,300						
60	76.0	8,100	80.0	7,200				
65	75.0	8,000	78.5	7,000				
70	73.5	7,800	77.0	6,800				
75	72.5	7,700	76.0	6,700	79.5	5,700		
80	71.0	7,500	74.5	6,500	78.0	5,600		
85	69.5	7,300	73.0	6,300	76.5	5,500		
90	67.5	6,500	71.5	6,200	75.0	5,400	78.0	4,900
95	65.5	5,700	70.0	6,000	73.5	5,300	76.5	4,800
100	64.0	4,900	68.5	5,700	72.0	5,200	75.0	4,800
105	62.0	4,300	66.5	5,000	70.5	5,100	73.5	4,700
110	60.0	3,700	64.5	4,300	68.5	5,000	71.5	4,700
115	58.0	3,200	62.0	3,800	66.5	4,400	69.5	4,700
120	56.0	2,700	60.0	3,200	64.5	3,800	67.5	4,200
125	54.0	2,300	58.0	2,800	62.0	3,300	65.0	3,600
130	52.0	1,900	56.0	2,300	60.0	2,800	62.5	3,100
135	50.0	1,500	54.0	1,900	57.5	2,400	60.0	2,600
140	47.5	1,200	51.5	1,600	55.0	1,900	57.5	2,200
145	45.5	900	49.5	1,200	52.5	1,600	54.5	1,800
150			47.0	900	50.0	1,200	52.0	1,400
155					47.5	900	49.0	1,000
Min.Bm. Ang./Cap.	44.5		45.0		45.5		46.0	
Radius (ft)	147.8		153.9		158.9		159.9	
Maximum Boom Length At 0° Boom Angle (ft)	117							

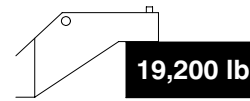
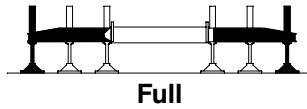
Not for crane operations



Rated Lifting Capacities In Pounds			 Full		 9,600 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	11,600						
40	78.5	11,200						
45	77.0	10,700						
50	75.5	10,300	79.5	8,400				
55	74.0	9,800	78.0	8,000				
60	72.5	9,400	76.5	7,700				
65	70.5	9,000	74.5	7,400	79.0	6,200		
70	69.0	8,600	73.0	7,100	77.5	6,000		
75	67.5	8,200	71.5	6,900	75.5	5,800		
80	65.5	7,900	69.5	6,600	73.5	5,700	77.5	5,100
85	63.5	7,000	67.5	6,400	72.0	5,500	75.5	5,000
90	61.5	6,100	66.0	6,200	70.0	5,400	73.5	4,900
95	59.0	5,300	64.0	6,000	68.0	5,300	71.5	4,900
100	57.0	4,500	61.5	5,300	66.0	5,200	69.0	4,800
105	54.5	3,900	59.5	4,600	64.0	5,100	67.0	4,800
110	52.5	3,300	57.0	3,900	61.5	4,600	64.5	4,700
115	50.0	2,800	54.5	3,400	59.0	3,900	62.0	4,300
120	47.5	2,300	52.0	2,900	56.5	3,400	59.0	3,700
125	45.0	1,900	49.5	2,400	53.5	2,800	56.0	3,100
130	42.5	1,500	47.0	1,900	50.5	2,300	53.0	2,600
135	40.0	1,200	44.0	1,500	47.5	1,900	49.5	2,000
140			41.0	1,200	44.5	1,400	45.5	1,500
145					41.0	1,000		
Min.Bm. Ang./Cap.	38.0		39.0		37.5		37.0	
Radius (ft)	138.7		143.7		149.5		149.1	
Maximum Boom Length At 0° Boom Angle (ft)	102							

Not for crane operations

Rated Lifting Capacities In Pounds

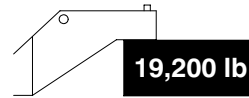
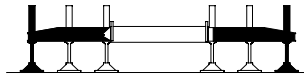


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
8	71.5	180,000	180,000						
10	68.0	160,000	160,000	74.0	80,400	80,400	77.0	58,000	58,000
12	64.5	138,000	138,000	71.5	75,000	75,000	75.0	53,700	53,700
15	59.0	109,500	109,500	67.5	68,000	68,000	72.0	48,400	48,400
20	49.5	80,100	80,100	61.0	59,000	59,000	67.0	41,300	41,300
25	37.5	62,000	62,000	54.0	52,200	52,200	61.5	36,100	36,100
30	18.5	49,700	49,700	46.0	46,900	46,900	55.5	32,000	32,000
35				37.0	42,700	42,700	49.0	28,700	28,700
40				24.0	34,300	34,700	42.0	26,100	26,100
45							33.5	23,900	23,900
50							22.0	22,100	22,100
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	18,200	18,200	0.0	12,900	12,900
Radius (ft)	31.0			43.0			53.0		

Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
10	79.5	55,900	55,900						
12	77.5	52,300	52,300	79.5	41,800	41,800			
15	75.0	47,500	47,500	77.5	41,800	41,800	79.0	33,500	33,500
20	71.0	41,100	41,100	74.0	41,800	41,800	76.0	33,500	33,500
25	66.5	36,300	36,300	70.0	37,900	37,900	73.0	33,500	33,500
30	61.5	32,400	32,400	66.0	33,900	33,900	69.5	31,400	31,400
35	56.5	29,200	29,200	62.0	30,400	30,400	66.0	28,100	28,100
40	51.5	26,600	26,600	58.0	27,500	27,500	62.5	25,500	25,500
45	45.5	24,400	24,400	53.5	25,100	25,100	58.5	23,300	23,300
50	39.0	22,600	22,600	48.5	23,100	23,100	54.5	21,400	21,400
55	31.5	20,800	20,800	43.0	21,300	21,300	50.5	19,800	19,800
60	20.5	18,400	18,700	37.0	18,800	19,200	46.0	18,300	18,300
65				29.5	16,300	16,700	40.5	16,500	16,900
70				19.5	14,300	14,700	35.0	14,500	14,900
75							28.0	12,800	13,200
80							18.5	11,400	11,800
Min.Bm. Ang./Cap.	0.0	10,700	10,700	0.0	9,200	9,200	0.0	7,900	7,900
Radius (ft)	63.0			73.0			83.0		

Not for crane operations

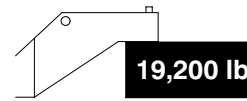
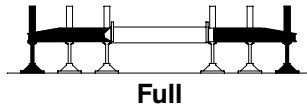
Rated Lifting Capacities In Pounds



Load Radius (ft)	100.0 ft			110.0 ft			120.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
20	77.5	32,100	32,100	79.0	27,200	27,200			
25	75.0	32,100	32,100	76.5	27,200	27,200	78.0	28,000	28,000
30	72.0	32,100	32,100	74.0	27,200	27,200	76.0	28,000	28,000
35	69.0	29,700	29,700	71.5	27,200	27,200	73.5	28,000	28,000
40	66.0	27,100	27,100	69.0	27,200	27,200	71.5	28,000	28,000
45	62.5	24,900	24,900	66.0	25,800	25,800	69.0	26,100	26,100
50	59.5	23,000	23,000	63.0	23,800	23,800	66.5	24,100	24,100
55	56.0	21,300	21,300	60.0	21,700	21,900	63.5	21,300	21,700
60	52.0	18,800	19,200	56.5	18,700	19,100	60.5	18,300	18,700
65	48.0	16,400	16,800	53.0	16,300	16,600	57.5	15,900	16,300
70	43.5	14,400	14,700	49.5	14,300	14,600	54.0	13,900	14,300
75	38.5	12,800	13,000	45.5	12,700	12,900	51.0	12,300	12,700
80	33.0	11,300	11,700	41.5	11,200	11,600	47.5	10,900	11,200
85	26.5	10,100	10,400	37.0	10,000	10,300	43.5	9,700	10,000
90	17.5	9,000	9,300	31.5	8,900	9,200	39.5	8,600	8,900
95				25.5	8,000	8,300	35.5	7,700	8,000
100				17.0	7,100	7,400	30.5	6,800	7,100
105							24.5	6,100	6,300
110							16.5	5,400	5,700
Min.Bm. Ang./Cap.	0.0	6,600	6,600	0.0	5,500	5,500	0.0	4,300	4,300
Radius (ft)	93.0			103.0			113.0		

Load Radius (ft)	130.0 ft			140.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
25	79.5	26,900	26,900			
30	77.5	26,500	26,500	78.5	24,400	24,400
35	75.5	26,300	26,300	77.0	24,100	24,100
40	73.5	26,100	26,100	75.0	24,000	24,000
45	71.5	25,900	25,900	73.5	23,800	23,800
50	69.0	24,600	25,100	71.5	23,700	23,700
55	66.5	20,900	21,300	69.0	20,500	20,900
60	63.5	17,900	18,300	66.5	17,600	18,000
65	61.0	15,500	15,900	64.0	15,100	15,500
70	58.0	13,500	13,900	61.5	13,200	13,500
75	55.0	12,000	12,300	58.5	11,600	12,000
80	52.0	10,500	10,900	56.0	10,200	10,600
85	49.0	9,300	9,600	53.0	9,000	9,300
90	45.5	8,200	8,500	50.5	7,900	8,200
95	42.0	7,300	7,600	47.5	7,000	7,300
100	38.5	6,500	6,700	44.0	6,200	6,400
105	34.0	5,700	6,000	41.0	5,400	5,700
110	29.5	5,100	5,300	37.0	4,700	5,000
115	23.5	4,500	4,700	33.0	4,200	4,400
120	16.0	3,900	4,100	28.5	3,600	3,900
125				23.0	3,100	3,300
130				15.5	2,700	2,900
Min.Bm. Ang./Cap.	0.0	3,300	3,300	0.0	2,300	2,300
Radius (ft)	123.0			133.0		

Rated Lifting Capacities In Pounds

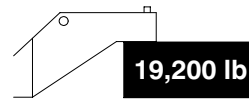
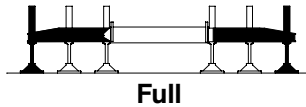


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front
8	71.5	180,000	180,000									
10	68.0	160,000	160,000	74.0	103,300	103,300	77.0	96,400	96,400	79.0	70,800	70,800
12	64.5	138,000	138,000	71.5	103,300	103,300	75.0	89,500	89,500	77.5	70,800	70,800
15	59.0	109,500	109,500	68.0	103,300	103,300	72.0	79,900	79,900	75.0	70,800	70,800
20	49.5	80,100	80,100	61.0	82,300	82,300	67.0	67,800	67,800	71.0	63,500	63,500
25	37.5	62,000	62,000	54.0	64,200	64,200	61.5	58,800	58,800	66.5	54,800	54,800
30	18.5	49,700	49,700	46.0	51,900	51,900	55.5	51,700	51,700	61.5	47,800	47,800
35				36.5	42,800	43,100	49.0	44,100	44,200	56.5	42,500	42,500
40				24.0	33,400	33,800	42.0	34,600	35,000	51.5	35,000	35,400
45							33.5	28,100	28,500	45.5	28,400	28,900
50							21.5	23,200	23,700	39.0	23,600	24,100
55										31.0	19,900	20,300
60										20.0	17,000	17,300
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	23,000	23,000	0.0	18,200	18,200	0.0	14,500	14,500
Radius (ft)	31.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			115.8 ft		
	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front	Δ°	360°	Over Front
12	79.5	70,700	70,700									
15	77.5	67,700	67,700	79.0	54,200	54,200						
20	74.0	58,400	58,400	76.0	52,000	52,000	78.0	49,100	49,100			
25	70.0	51,200	51,200	73.0	45,600	45,600	75.0	45,200	45,200	78.0	36,300	36,300
30	66.0	45,500	45,500	69.5	40,600	40,600	72.5	42,200	42,200	76.0	35,900	35,900
35	62.0	40,900	40,900	66.0	36,500	36,500	69.5	38,300	38,300	73.5	35,500	35,500
40	57.5	35,100	35,500	62.5	33,000	33,000	66.0	34,700	34,900	71.0	33,400	33,400
45	53.0	28,500	28,900	58.5	28,500	29,000	62.5	28,100	28,500	68.0	27,500	28,000
50	48.0	23,700	24,200	54.5	23,800	24,200	59.0	23,300	23,800	65.0	22,800	23,300
55	42.5	20,000	20,400	50.0	20,000	20,500	55.5	19,600	20,100	62.0	19,100	19,600
60	36.5	17,100	17,500	45.0	17,100	17,500	51.5	16,700	17,100	58.5	16,200	16,600
65	29.0	14,700	15,100	40.0	14,700	15,100	47.5	14,300	14,700	55.5	13,800	14,200
70	19.0	12,700	13,100	34.5	12,800	13,100	43.0	12,400	12,700	52.0	12,000	12,400
75				27.5	11,100	11,500	38.0	10,800	11,100	48.5	10,300	10,700
80				18.0	9,700	10,000	32.5	9,400	9,700	45.0	8,900	9,300
85							26.0	8,200	8,500	41.0	7,700	8,100
90							17.0	7,100	7,400	36.5	6,700	7,000
95										31.5	5,700	6,000
100										26.0	4,900	5,200
105										18.0	4,200	4,500
Min.Bm. Ang./Cap.	0.0	11,600	11,600	0.0	8,900	9,300	0.0	6,500	6,800	0.0	3,700	3,900
Radius (ft)	73.0			83.0			93.0			108.8		

Not for crane operations

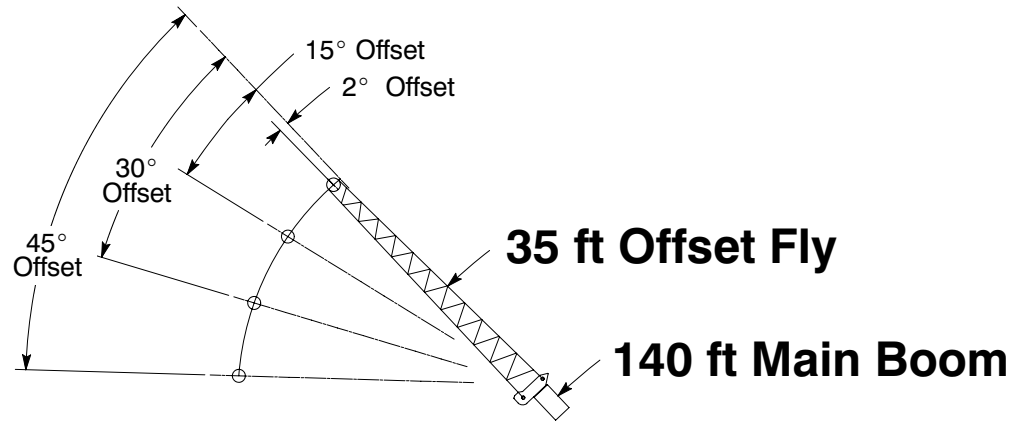
**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**

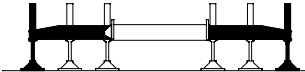
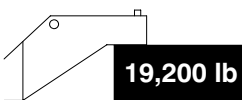


Load Radius (ft)	38.0 ft			50.7 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
8	71.5	180,000	180,000			
10	68.0	160,000	160,000	74.5	152,000	152,000
12	64.5	138,000	138,000	72.0	138,600	138,600
15	59.0	109,500	109,500	68.0	111,700	111,700
20	49.5	80,100	80,100	61.5	82,400	82,400
25	37.5	62,000	62,000	54.5	64,300	64,300
30	18.5	49,700	49,700	47.0	52,000	52,000
35				38.0	42,900	43,200
40				26.0	33,500	33,900
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	22,600	22,600
Radius (ft)	31.0			43.7		

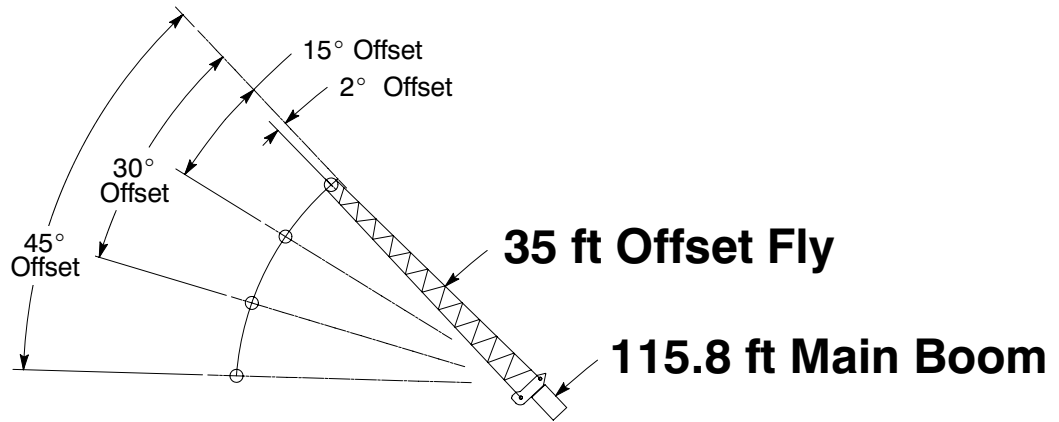
Load Radius (ft)	63.7 ft			76.5 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
10	78.0	117,900	117,900			
12	76.0	108,800	108,800	79.0	85,100	85,100
15	73.5	106,500	106,500	76.5	78,400	78,400
20	68.5	82,800	82,800	73.0	76,500	76,500
25	63.5	64,800	64,800	68.5	64,300	64,300
30	58.0	52,600	52,600	64.5	52,100	52,100
35	52.0	43,500	43,700	60.0	42,800	43,100
40	45.5	34,100	34,500	55.5	33,500	33,900
45	38.5	27,500	28,000	50.5	27,000	27,400
50	29.5	22,700	23,200	45.0	22,200	22,700
55	16.5	19,000	19,400	39.0	18,600	19,000
60				32.0	15,700	16,100
65				22.5	13,300	13,700
Min.Bm. Ang./Cap.	0.0	16,300	16,300	0.0	11,500	11,500
Radius (ft)	56.7			69.5		

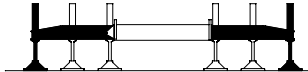
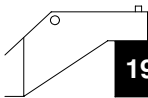
Not for crane operations



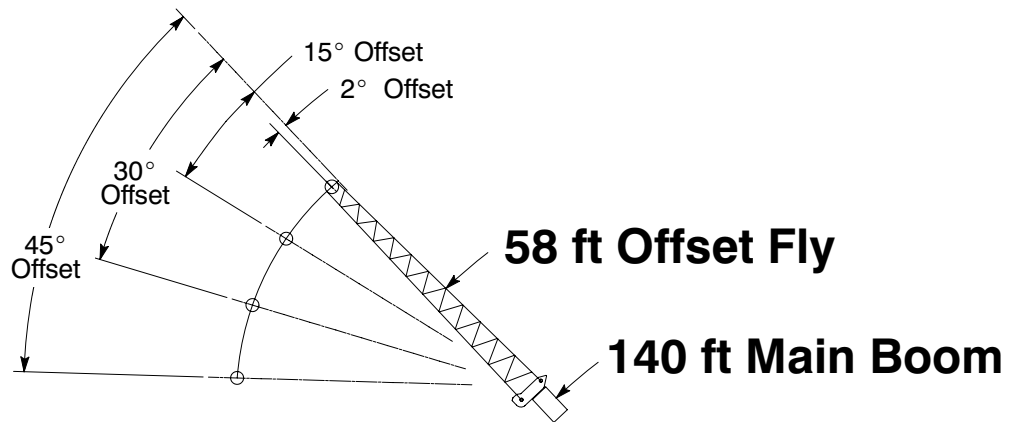
Rated Lifting Capacities In Pounds			 Full		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	12,100						
40	78.5	12,100						
45	77.5	12,100						
50	76.0	12,100	80.0	11,500				
55	74.5	12,100	78.5	11,400				
60	73.0	12,100	77.0	11,200				
65	72.0	12,100	75.5	11,000	79.5	10,000		
70	70.0	12,100	78.0	9,800				
75	68.5	12,100	76.5	9,700	75.0	9,500		
80	67.0	11,900	74.0	10,800	73.5	9,400	78.5	8,800
85	66.0	11,700	72.5	10,600	71.5	9,200	77.0	8,800
90	64.5	11,500	71.0	10,400	70.0	9,100	75.0	8,700
95	63.0	10,900	69.5	10,200	68.0	9,000	73.5	8,600
100	61.5	9,600	67.5	10,000	66.0	8,500	71.5	8,600
105	60.0	8,500	65.5	9,100	64.5	8,400	70.0	8,500
110	58.5	7,600	63.0	8,100	63.0	8,500	68.0	8,400
115	57.0	6,700	61.0	7,200	61.5	7,600	65.5	7,900
120	55.5	6,000	58.5	6,400	60.0	6,800	63.0	7,000
125	54.0	5,300	56.0	5,700	59.0	6,000	60.5	6,200
130	52.5	4,700	54.0	5,000	56.5	5,300	58.0	5,500
135	51.0	4,100	51.5	4,400	53.5	4,700	55.0	4,900
140	49.5	3,600	48.5	3,900	51.0	4,100	52.5	4,300
145	48.0	3,100	46.0	3,400	48.0	3,600	49.0	3,700
150	46.5	2,700	43.0	3,000	45.0	3,100	46.0	3,200
155	45.0	2,300	40.0	2,500	42.0	2,700		
160	43.5	2,000	37.0	2,200	38.5	2,300		
165	42.0	1,700	33.5	1,800	34.5	1,900		
170	40.5	1,400	29.0	1,500	30.0	1,500		
175	39.0	1,100	24.5	1,200				
180	37.5	800	17.5	900				
Min.Bm. Ang./Cap.	0.0	500	0.0	500	0.0	500	0.0	600
Radius (ft)	168.0		167.5		165.1		161.0	

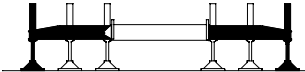
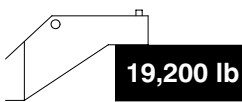
Not for crane operations



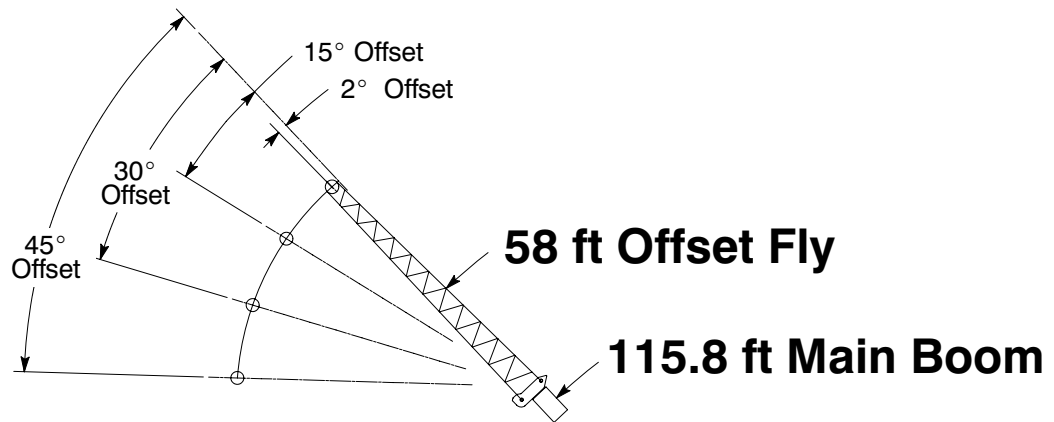
Rated Lifting Capacities In Pounds			 Full		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
30	79.5	20,000	78.5	13,700				
35	78.0	19,000						
40	76.0	18,100						
45	74.5	17,200	77.0	13,200	80.0	11,100	78.5	9,400
50	72.5	16,400	75.0	12,700	78.0	10,800		
55	70.5	14,500	73.0	12,300	76.0	10,500		
60	68.5	14,000	71.0	11,900	74.0	10,300	76.5	9,200
65	66.5	13,500	69.0	11,500	72.0	10,000	74.0	9,100
70	64.5	13,000	67.0	11,200	70.0	9,800	72.0	9,000
75	62.0	11,700	65.0	10,900	67.5	9,600	70.0	8,900
80	59.5	10,200	63.0	10,600	65.5	9,400	67.5	8,800
85	57.0	9,000	60.5	9,600	63.0	9,300	65.0	8,700
90	54.5	7,900	57.5	8,400	60.5	9,000	62.5	8,700
95	52.0	6,900	55.0	7,400	58.0	7,900	60.0	8,200
100	49.0	6,100	52.0	6,500	55.0	6,900	57.0	7,200
105	46.0	5,400	49.5	5,700	52.0	6,100	53.5	6,300
110	43.0	4,700	46.0	5,000	48.5	5,300	50.0	5,500
115	40.0	4,100	43.0	4,400	45.5	4,600	46.5	4,700
120	36.5	3,500	39.5	3,800	41.5	4,000		
125	33.0	3,000	35.5	3,300	37.5	3,400		
130	28.5	2,600	31.5	2,800	33.0	2,900		
135	23.5	2,200	26.5	2,300				
140	17.0	1,800	19.5	1,900				
Min.Bm. Ang./Cap.	0.0	1,500	0.0	1,600	0.0	1,600	0.0	1,700
Radius (ft)	143.8		143.3		141.1		137.1	

Not for crane operations



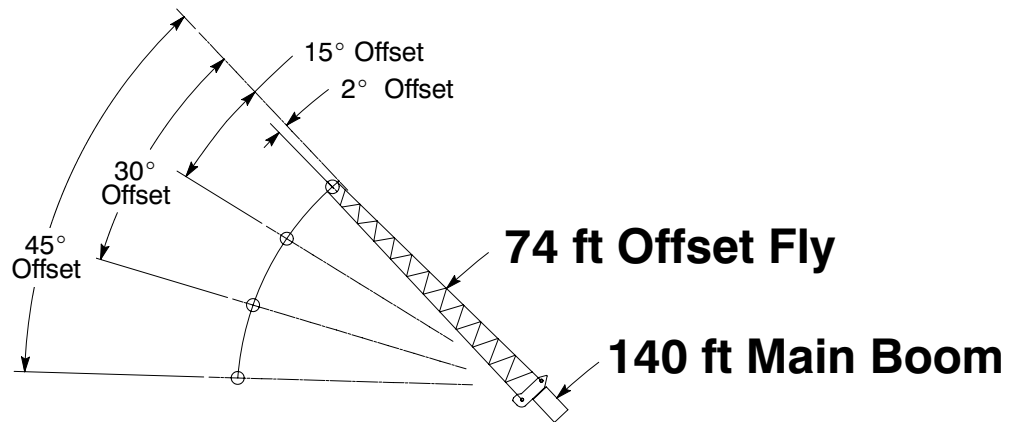
Rated Lifting Capacities In Pounds			 Full		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
45	79.5	8,500						
50	78.5	8,400						
55	77.5	8,300						
60	76.0	8,100	80.0	7,200				
65	75.0	8,000	78.5	7,000				
70	73.5	7,800	77.0	6,800				
75	72.5	7,700	76.0	6,700	79.5	5,700		
80	71.0	7,500	74.5	6,500	78.0	5,600		
85	69.5	7,300	73.0	6,300	76.5	5,500		
90	68.0	7,100	71.5	6,200	75.0	5,400	78.0	4,900
95	66.5	6,900	70.0	6,000	73.5	5,300	76.5	4,800
100	65.0	6,700	68.5	5,900	72.0	5,200	75.0	4,800
105	63.5	6,400	67.0	5,700	70.5	5,100	73.5	4,700
110	61.5	5,700	65.5	5,600	68.5	5,000	71.5	4,700
115	59.5	5,100	63.5	5,500	67.0	4,900	69.5	4,700
120	57.5	4,500	61.5	5,100	65.0	4,800	68.0	4,600
125	55.0	4,000	59.5	4,500	63.5	4,700	66.0	4,500
130	53.0	3,600	57.5	4,000	61.5	4,500	63.5	4,400
135	51.0	3,100	55.0	3,600	59.0	4,000	61.5	4,300
140	48.5	2,700	52.5	3,100	56.5	3,500	59.0	3,700
145	46.5	2,400	50.5	2,700	54.0	3,100	56.0	3,300
150	44.0	2,000	48.0	2,400	51.0	2,700	53.0	2,800
155	41.5	1,700	45.5	2,000	48.5	2,300	50.0	2,400
160	39.0	1,400	42.5	1,700	45.5	1,900	46.5	2,000
165	36.0	1,200	39.5	1,400	42.5	1,600		
170	33.0	900	36.5	1,100	39.0	1,300		
175					35.0	900		
Min.Bm. Ang./Cap.	31.5		34.5		30.0		34.5	
Radius (ft)	172.5		173.3		179.9		173.6	
Maximum Boom Length At 0° Boom Angle (ft)	132							

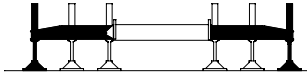
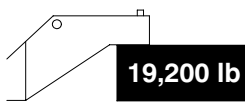
Not for crane operations



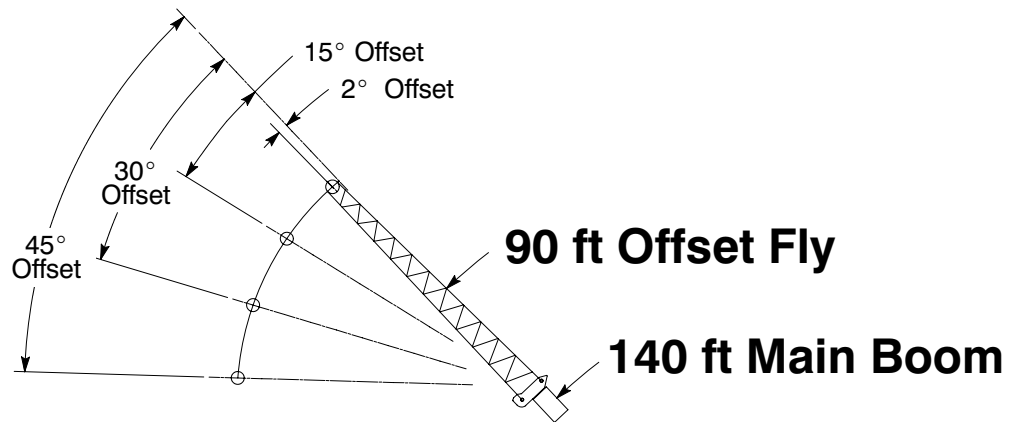
Rated Lifting Capacities In Pounds			 Full		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	°	360°	°	360°	°	360°	°	360°
35	80.0	11,600						
40	78.5	11,200						
45	77.0	10,700						
50	75.5	10,300	79.5	8,400				
55	74.0	9,800	78.0	8,000				
60	72.5	9,400	76.5	7,700				
65	70.5	9,000	74.5	7,400	79.0	6,200		
70	69.0	8,600	73.0	7,100	77.5	6,000		
75	67.5	8,200	71.5	6,900	75.5	5,800		
80	65.5	7,900	69.5	6,600	73.5	5,700	77.5	5,100
85	63.5	7,500	67.5	6,400	72.0	5,500	75.5	5,000
90	62.0	7,200	66.0	6,200	70.0	5,400	73.5	4,900
95	60.0	7,000	64.0	6,000	68.0	5,300	71.5	4,900
100	58.0	6,700	62.0	5,900	66.0	5,200	69.0	4,800
105	55.5	6,100	60.0	5,700	64.0	5,100	67.0	4,800
110	53.5	5,400	58.0	5,500	61.5	5,000	64.5	4,700
115	51.0	4,700	55.5	5,300	59.5	4,900	62.5	4,700
120	48.5	4,200	53.0	4,700	57.0	4,900	60.0	4,700
125	46.0	3,700	50.5	4,100	54.5	4,600	57.0	4,700
130	43.5	3,200	47.5	3,600	51.5	4,000	54.0	4,200
135	40.5	2,800	45.0	3,200	48.5	3,500	50.5	3,700
140	37.5	2,400	41.5	2,700	45.0	3,000	46.5	3,100
145	34.5	2,000	38.5	2,300	41.5	2,500		
150	31.0	1,700	34.5	1,900	37.0	2,100		
155	27.0	1,400	30.5	1,600	32.0	1,700		
160	22.0	1,100	25.5	1,200				
165	14.5	900	17.0	900				
Min.Bm. Ang./Cap.	7.5		7.5		10.5		15.0	
Radius (ft)	166.8		165.2		162.6		156.6	
Maximum Boom Length At 0° Boom Angle (ft)	114							

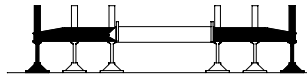
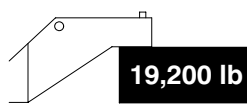
Not for crane operations



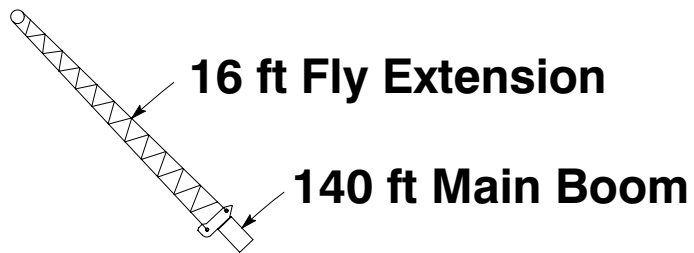
Rated Lifting Capacities In Pounds			 Full		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
50	79.0	6,600						
55	78.0	6,600						
60	77.0	6,600						
65	76.0	6,600	79.0	6,300				
70	75.0	6,600	77.5	6,000				
75	73.5	6,600	76.5	5,700	79.5	4,600		
80	72.5	6,400	75.0	5,400	78.0	4,400		
85	71.0	6,000	73.5	5,100	77.0	4,200	80.0	3,700
90	69.5	5,700	72.0	4,900	75.5	4,100	78.5	3,500
95	68.0	5,400	70.5	4,600	74.0	3,900	77.0	3,400
100	66.5	5,100	69.5	4,400	72.5	3,700	75.5	3,300
105	65.5	4,900	68.0	4,200	71.0	3,600	74.0	3,200
110	64.0	4,700	66.5	4,100	69.5	3,500	72.0	3,100
115	62.5	4,500	65.0	3,900	68.0	3,300	70.5	3,000
120	60.5	4,300	63.5	3,700	66.5	3,200	69.0	2,900
125	59.0	3,900	61.5	3,600	65.0	3,100	67.5	2,800
130	57.0	3,500	60.0	3,500	63.0	3,000	65.5	2,700
135	55.0	3,000	58.5	3,300	61.5	2,900	64.0	2,700
140	53.0	2,600	56.5	3,000	59.5	2,800	62.0	2,600
145	51.0	2,300	54.5	2,600	58.0	2,800	60.0	2,600
150	49.0	1,900	52.5	2,200	56.0	2,600	58.0	2,500
155	47.0	1,600	50.0	1,900	53.5	2,200	56.0	2,400
160	45.0	1,300	48.0	1,600	51.5	1,900	53.0	2,100
165	42.5	1,000	45.5	1,300	49.0	1,500	50.5	1,700
170			43.5	1,000	46.5	1,200	47.5	1,300
175					43.5	900		
Min.Bm. Ang./Cap.	41.5		42.5		42.5		43.5	
Radius (ft)	167.5		171.7		177.5		176.7	
Maximum Boom Length At 0° Boom Angle (ft)	122							

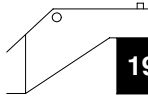
Not for crane operations



Rated Lifting Capacities In Pounds			 Full		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
55	79.0	5,200						
60	78.0	5,200						
65	77.5	5,200						
70	76.5	5,200	79.0	4,800				
75	75.5	5,100	78.0	4,500				
80	74.0	4,800	76.5	4,200	79.5	3,600		
85	73.0	4,500	75.5	4,000	78.5	3,400		
90	71.5	4,200	74.0	3,700	77.0	3,200	80.0	2,900
95	70.0	4,000	72.5	3,500	76.0	3,000	78.5	2,700
100	69.0	3,700	71.5	3,300	74.5	2,900	77.0	2,600
105	67.5	3,500	70.0	3,100	73.0	2,700	76.0	2,400
110	66.0	3,300	68.5	3,000	72.0	2,600	74.5	2,300
115	65.0	3,200	67.5	2,800	70.5	2,400	73.0	2,200
120	63.5	3,000	66.0	2,700	69.0	2,300	71.5	2,100
125	62.0	2,800	64.5	2,500	67.5	2,200	70.0	2,000
130	60.5	2,700	63.0	2,400	66.0	2,100	68.5	1,900
135	59.0	2,500	61.5	2,300	64.5	2,000	67.0	1,800
140	57.5	2,400	60.0	2,200	63.0	1,900	65.5	1,800
145	56.0	2,200	58.5	2,100	61.5	1,800	63.5	1,700
150	54.0	1,900	57.0	2,000	60.0	1,700	62.0	1,600
155	52.5	1,600	55.5	1,900	58.0	1,700	60.0	1,600
160	50.5	1,300	53.5	1,600	56.5	1,600	58.5	1,500
165	48.5	1,000	51.5	1,300	54.5	1,500	56.5	1,500
170			49.5	1,000	52.5	1,300	54.5	1,400
175					50.5	1,000	52.0	1,100
Min.Bm. Ang./Cap.	47.5		48.5		49.5		50.5	
Radius (ft)	166.7		171.7		176.7		178.3	
Maximum Boom Length At 0° Boom Angle (ft)	110							

Not for crane operations



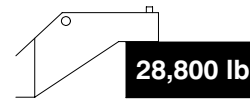
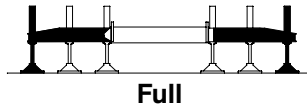
Rated Lifting Capacities In Pounds  Full  19,200 lb 		
Load Radius In (ft)	$\angle$ °	360°
35	78.0	15,600
40	77.5	15,600
45	76.0	15,600
50	74.5	15,600
55	72.5	15,600
60	70.5	15,600
65	68.0	15,200
70	65.5	13,300
75	63.5	11,700
80	61.0	10,300
85	58.5	9,100
90	56.0	8,000
95	53.5	7,100
100	51.0	6,200
105	48.0	5,500
110	45.5	4,800
115	42.5	4,200
120	39.0	3,700
125	36.0	3,200
130	32.0	2,700
135	28.0	2,300
140	23.0	2,000
145	16.5	1,600
Min.Bm. Ang./Cap.	0.0	1,100
Radius (ft)	149.0	

Not for crane operations

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Rated Lifting Capacities In Pounds

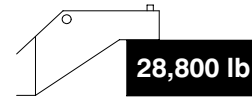
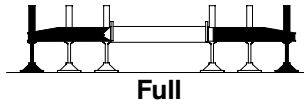


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
8	71.5	180,000	180,000						
10	68.0	160,000	160,000	74.0	80,400	80,400	77.0	58,000	58,000
12	64.5	139,600	139,600	71.5	75,000	75,000	75.0	53,700	53,700
15	59.5	116,300	116,300	67.5	68,000	68,000	72.0	48,400	48,400
20	49.5	85,300	85,300	61.0	59,000	59,000	67.0	41,300	41,300
25	37.5	66,200	66,200	54.0	52,200	52,200	61.5	36,100	36,100
30	18.5	53,200	53,200	46.0	46,900	46,900	55.5	32,000	32,000
35				37.0	42,700	42,700	49.0	28,700	28,700
40				24.0	39,600	39,600	42.0	26,100	26,100
45							33.5	23,900	23,900
50							22.0	22,100	22,100
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	18,200	18,200	0.0	12,900	12,900
Radius (ft)	31.0			43.0			53.0		

Load Radius (ft)	70.0 ft			80.0 ft			90.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
10	79.5	55,900	55,900						
12	77.5	52,300	52,300	79.5	41,800	41,800			
15	75.0	47,500	47,500	77.5	41,800	41,800	79.0	33,500	33,500
20	71.0	41,100	41,100	74.0	41,800	41,800	76.0	33,500	33,500
25	66.5	36,300	36,300	70.0	37,900	37,900	73.0	33,500	33,500
30	61.5	32,400	32,400	66.0	33,900	33,900	69.5	31,400	31,400
35	56.5	29,200	29,200	62.0	30,400	30,400	66.0	28,100	28,100
40	51.5	26,600	26,600	58.0	27,500	27,500	62.5	25,500	25,500
45	45.5	24,400	24,400	53.5	25,100	25,100	58.5	23,300	23,300
50	39.0	22,600	22,600	48.5	23,100	23,100	54.5	21,400	21,400
55	31.5	20,800	20,800	43.0	21,300	21,300	50.5	19,800	19,800
60	20.5	19,300	19,300	37.0	19,800	19,800	46.0	18,300	18,300
65				29.5	18,500	18,500	41.0	17,100	17,100
70				19.5	17,300	17,300	35.0	16,000	16,000
75							28.5	14,900	14,900
80							19.0	14,100	14,100
Min.Bm. Ang./Cap.	0.0	10,700	10,700	0.0	9,200	9,200	0.0	7,900	7,900
Radius (ft)	63.0			73.0			83.0		

Not for crane operations

Rated Lifting Capacities In Pounds

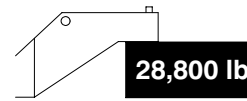
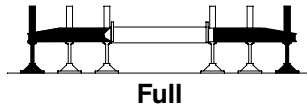


Load Radius (ft)	100.0 ft			110.0 ft			120.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
20	77.5	32,100	32,100	79.0	27,200	27,200			
25	75.0	32,100	32,100	76.5	27,200	27,200	78.0	28,000	28,000
30	72.0	32,100	32,100	74.0	27,200	27,200	76.0	28,000	28,000
35	69.0	29,700	29,700	71.5	27,200	27,200	73.5	28,000	28,000
40	66.0	27,100	27,100	69.0	27,200	27,200	71.5	28,000	28,000
45	62.5	24,900	24,900	66.0	25,800	25,800	69.0	26,100	26,100
50	59.5	23,000	23,000	63.0	23,800	23,800	66.5	24,100	24,100
55	56.0	21,300	21,300	60.0	21,900	21,900	63.5	22,300	22,300
60	52.0	19,900	19,900	57.0	20,300	20,300	61.0	20,700	20,700
65	48.0	18,600	18,600	53.5	18,900	18,900	58.0	19,300	19,300
70	44.0	17,500	17,500	50.0	17,700	17,700	54.5	17,400	17,600
75	39.0	15,900	16,100	46.0	15,700	16,000	51.5	15,400	15,700
80	33.5	14,200	14,500	42.0	14,100	14,300	48.0	13,700	14,000
85	27.0	12,800	13,000	37.5	12,700	12,900	44.0	12,400	12,700
90	18.0	11,600	11,800	32.0	11,500	11,700	40.0	11,200	11,400
95				26.0	10,400	10,600	36.0	10,100	10,300
100				17.5	9,400	9,600	31.0	9,100	9,300
105							25.0	8,200	8,400
110							16.5	7,400	7,600
Min.Bm. Ang./Cap.	0.0	6,600	6,600	0.0	5,500	5,500	0.0	4,300	4,300
Radius (ft)	93.0			103.0			113.0		

Load Radius (ft)	130.0 ft			140.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
25	79.5	26,900	26,900			
30	77.5	26,500	26,500	78.5	24,400	24,400
35	75.5	26,300	26,300	77.0	24,100	24,100
40	73.5	26,100	26,100	75.0	24,000	24,000
45	71.5	25,900	25,900	73.5	23,800	23,800
50	69.0	25,200	25,200	71.5	23,700	23,700
55	67.0	23,500	23,500	69.5	23,600	23,600
60	64.5	21,900	21,900	67.5	21,700	22,000
65	61.5	19,300	19,600	64.5	18,900	19,200
70	58.5	17,000	17,200	62.0	16,600	16,900
75	55.5	15,000	15,300	59.5	14,700	14,900
80	52.5	13,400	13,600	56.5	13,000	13,300
85	49.5	12,000	12,300	54.0	11,700	12,000
90	46.0	10,800	11,000	51.0	10,500	10,700
95	42.5	9,700	9,900	48.0	9,400	9,600
100	39.0	8,700	9,000	45.0	8,400	8,700
105	34.5	7,900	8,100	41.5	7,600	7,800
110	30.0	7,100	7,300	37.5	6,800	7,000
115	24.0	6,400	6,600	33.5	6,100	6,300
120	16.5	5,800	6,000	29.0	5,500	5,700
125				23.5	4,900	5,100
130				16.0	4,400	4,500
Min.Bm. Ang./Cap.	0.0	3,300	3,300	0.0	2,300	2,300
Radius (ft)	123.0			133.0		

Not for crane operations

Rated Lifting Capacities In Pounds

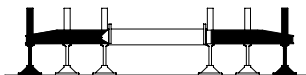


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
8	71.5	180,000	180,000									
10	68.0	160,000	160,000	74.0	103,300	103,300	77.0	96,400	96,400	79.0	70,800	70,800
12	64.5	139,600	139,600	71.5	103,300	103,300	75.0	89,500	89,500	77.5	70,800	70,800
15	59.5	116,300	116,300	68.0	103,300	103,300	72.0	79,900	79,900	75.0	70,800	70,800
20	49.5	85,300	85,300	61.0	87,500	87,500	67.0	67,800	67,800	71.0	63,500	63,500
25	37.5	66,200	66,200	54.0	68,400	68,400	61.5	58,800	58,800	66.5	54,800	54,800
30	18.5	53,200	53,200	46.0	55,400	55,400	55.5	51,700	51,700	61.5	47,800	47,800
35				36.5	46,100	46,100	49.5	46,300	46,300	56.5	42,500	42,500
40				24.0	39,000	39,000	42.0	40,100	40,100	51.5	38,100	38,100
45							33.5	34,200	34,400	45.5	34,500	34,500
50							22.0	28,500	28,700	39.0	28,900	29,100
55										31.0	24,600	24,900
60										20.5	21,100	21,400
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	23,000	23,000	0.0	18,200	18,200	0.0	14,500	14,500
Radius (ft)	31.0			43.0			53.0			63.0		

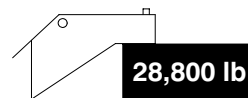
Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			115.8 ft		
	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front	$\angle$ °	360°	Over Front
12	79.5	70,700	70,700									
15	77.5	67,700	67,700	79.0	54,200	54,200						
20	74.0	58,400	58,400	76.0	52,000	52,000	78.0	49,100	49,100			
25	70.0	51,200	51,200	73.0	45,600	45,600	75.0	45,200	45,200	78.0	36,300	36,300
30	66.0	45,500	45,500	69.5	40,600	40,600	72.5	42,200	42,200	76.0	35,900	35,900
35	62.0	40,900	40,900	66.0	36,500	36,500	69.5	38,300	38,300	73.5	35,500	35,500
40	57.5	37,100	37,100	62.5	33,000	33,000	66.0	34,900	34,900	71.0	33,400	33,400
45	53.0	33,800	33,800	58.5	30,100	30,100	63.0	32,100	32,100	68.5	30,300	30,300
50	48.0	28,900	29,200	54.5	27,600	27,600	59.5	28,500	28,800	65.5	27,900	27,900
55	42.5	24,700	25,000	50.0	24,700	25,000	55.5	24,300	24,600	62.5	23,800	24,100
60	36.5	21,200	21,500	45.5	21,300	21,500	52.0	20,900	21,200	59.0	20,400	20,700
65	29.0	18,500	18,700	40.5	18,500	18,800	47.5	18,100	18,400	56.0	17,600	17,900
70	19.0	16,200	16,400	34.5	16,200	16,500	43.5	15,800	16,100	52.5	15,300	15,600
75				28.0	14,300	14,500	38.5	13,900	14,200	49.0	13,400	13,700
80				18.5	12,600	12,900	33.0	12,300	12,600	45.5	11,900	12,100
85							26.5	10,900	11,200	41.5	10,500	10,700
90							17.5	9,600	9,900	37.0	9,200	9,500
95										32.0	8,200	8,400
100										26.0	7,200	7,400
105										18.5	6,300	6,600
Min.Bm. Ang./Cap.	0.0	11,600	11,600	0.0	9,300	9,300	0.0	7,200	7,200	0.0	4,500	4,500
Radius (ft)	73.0			83.0			93.0			108.8		

Not for crane operations

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



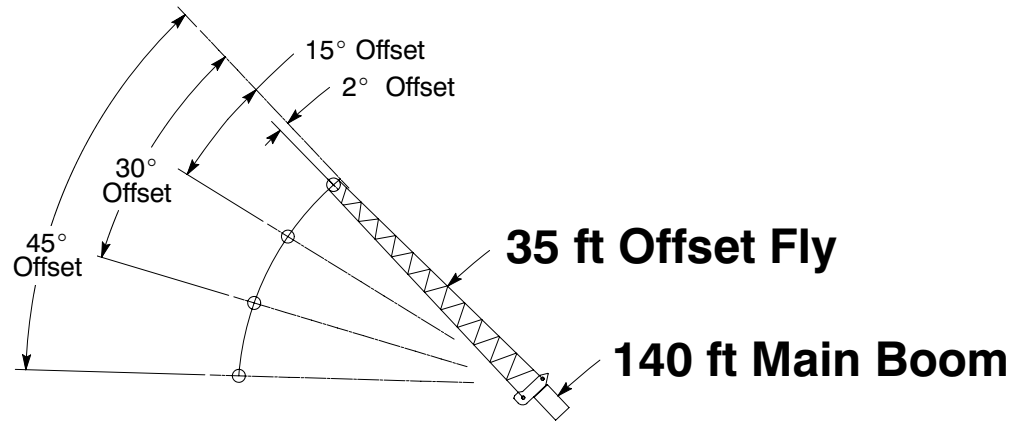
Full

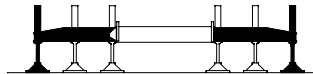
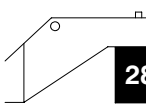


Load Radius (ft)	38.0 ft			50.7 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
8	71.5	180,000	180,000			
10	68.0	160,000	160,000	74.5	152,000	152,000
12	64.5	139,600	139,600	72.0	138,600	138,600
15	59.5	116,300	116,300	68.0	118,400	118,400
20	49.5	85,300	85,300	61.5	87,500	87,500
25	37.5	66,200	66,200	54.5	68,500	68,500
30	18.5	53,200	53,200	47.0	55,500	55,500
35				38.0	46,200	46,200
40				26.0	39,100	39,100
Min.Bm. Ang./Cap.	0.0	31,700	31,700	0.0	22,600	22,600
Radius (ft)	31.0			43.7		

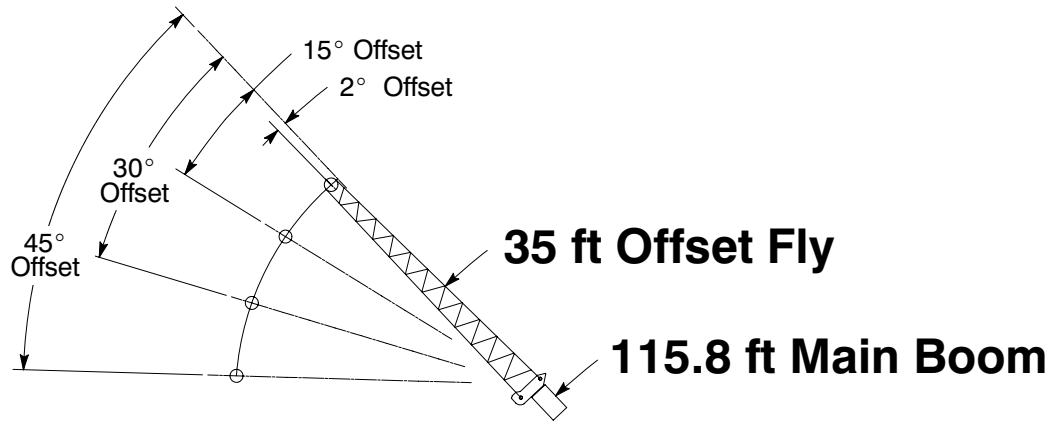
Load Radius (ft)	63.7 ft			76.5 ft		
	$\angle^\circ$	360°	Over Front	$\angle^\circ$	360°	Over Front
10	78.0	117,900	117,900			
12	76.0	108,800	108,800	79.0	85,100	85,100
15	73.5	106,500	106,500	76.5	78,400	78,400
20	68.5	87,900	87,900	73.0	76,500	76,500
25	63.5	69,000	69,000	69.0	68,500	68,500
30	58.0	56,100	56,100	64.5	55,700	55,700
35	52.0	46,800	46,800	60.0	46,400	46,400
40	46.0	39,700	39,700	55.5	39,300	39,300
45	38.5	33,600	33,800	50.5	33,100	33,300
50	30.0	28,000	28,300	45.0	27,500	27,700
55	16.5	23,700	23,900	39.0	23,200	23,500
60				32.0	19,800	20,100
65				23.0	17,100	17,400
Min.Bm. Ang./Cap.	0.0	16,300	16,300	0.0	11,500	11,500
Radius (ft)	56.7			69.5		

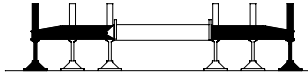
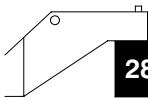
Not for crane operations



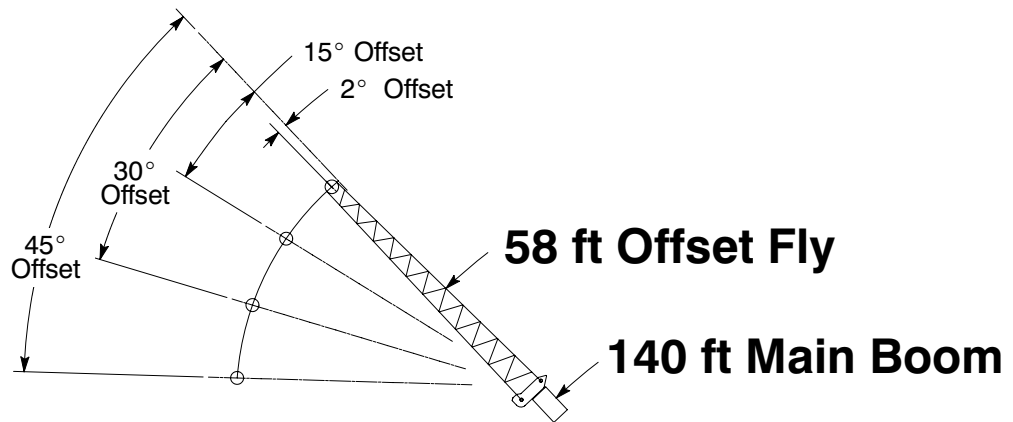
Rated Lifting Capacities In Pounds			 Full		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	12,100						
40	78.5	12,100						
45	77.5	12,100	80.0	11,500				
50	76.0	12,100	78.5	11,400				
55	74.5	12,100	77.0	11,200	79.5	10,000		
60	73.0	12,100	75.5	11,000	78.0	9,800		
65	72.0	11,900	74.0	10,800	76.5	9,700	78.5	8,800
70	70.0	11,700	72.5	10,600	75.0	9,500	77.0	8,800
75	68.5	11,500	71.0	10,400	73.5	9,400	75.0	8,700
80	67.0	11,300	69.5	10,200	71.5	9,200	73.5	8,600
85	65.5	11,000	67.5	10,000	70.0	9,100	71.5	8,600
90	63.5	10,500	66.0	9,700	68.0	9,000	70.0	8,500
95	61.5	10,000	64.0	9,400	66.0	8,800	68.0	8,400
100	59.0	9,000	62.0	9,000	64.0	8,500	66.0	8,200
105	57.0	8,100	60.0	8,500	62.0	8,200	63.5	8,000
110	54.5	7,300	57.5	7,700	60.0	8,000	61.5	7,700
115	52.0	6,600	55.0	7,000	57.5	7,300	59.0	7,500
120	49.5	6,000	52.5	6,300	55.0	6,600	56.5	6,700
125	47.0	5,400	50.0	5,700	52.0	5,900	53.5	6,000
130	44.5	4,800	47.0	5,100	49.0	5,300	50.5	5,400
135	41.5	4,400	44.0	4,600	46.0	4,800	47.0	4,800
140	38.5	3,900	41.0	4,100	43.0	4,300		
145	35.5	3,500	38.0	3,700	39.5	3,800		
150	32.0	3,100	34.0	3,300	35.5	3,300		
155	27.5	2,700	30.0	2,900	31.0	2,900		
160	23.0	2,400	25.0	2,500				
165	16.0	2,100	18.0	2,200				
Min.Bm. Ang./Cap.	0.0	500	0.0	500	0.0	500	0.0	600
Radius (ft)	168.0		167.5		165.1		161.0	

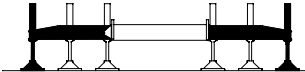
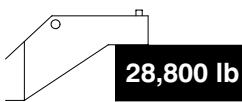
Not for crane operations



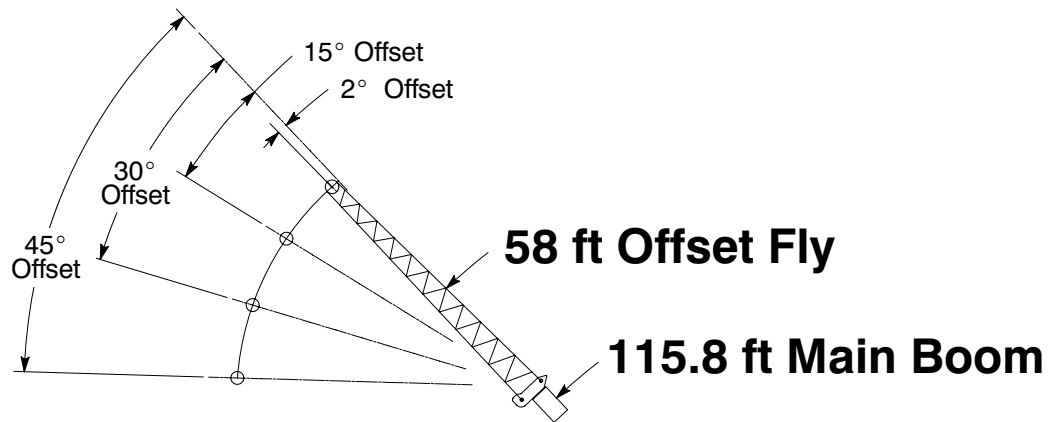
Rated Lifting Capacities In Pounds			 Full		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
30	79.5	20,000	78.5	13,700				
35	78.0	19,000						
40	76.0	18,100						
45	74.5	17,200	77.0	13,200	80.0	11,100	78.5	9,400
50	72.5	16,400	75.0	12,700	78.0	10,800		
55	70.5	14,500	73.0	12,300	76.0	10,500		
60	68.5	14,000	71.0	11,900	74.0	10,300	76.5	9,200
65	66.5	13,500	69.0	11,500	72.0	10,000	74.0	9,100
70	64.5	13,000	67.0	11,200	70.0	9,800	72.0	9,000
75	62.5	12,500	65.0	10,900	67.5	9,600	70.0	8,900
80	60.0	12,000	63.0	10,600	65.5	9,400	67.5	8,800
85	58.0	11,600	60.5	10,300	63.0	9,300	65.0	8,700
90	55.5	10,500	58.0	10,000	61.0	9,100	62.5	8,700
95	52.5	9,400	56.0	9,800	58.5	9,000	60.0	8,700
100	50.0	8,400	53.0	8,800	55.5	8,900	57.5	8,700
105	47.0	7,500	50.0	7,900	53.0	8,300	54.5	8,500
110	44.0	6,700	47.0	7,100	49.5	7,400	51.0	7,500
115	40.5	6,000	43.5	6,300	46.0	6,600	47.0	6,700
120	37.5	5,400	40.0	5,600	42.5	5,900		
125	33.5	4,800	36.5	5,000	38.5	5,200		
130	29.5	4,300	32.0	4,500	33.5	4,600		
135	24.0	3,800	27.0	3,900				
140	17.5	3,400	20.0	3,400				
Min.Bm. Ang./Cap.	0.0	1,800	0.0	1,800	0.0	1,900	0.0	2,100
Radius (ft)	143.8		143.3		141.1		137.1	

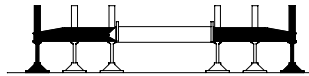
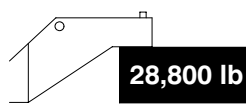
Not for crane operations



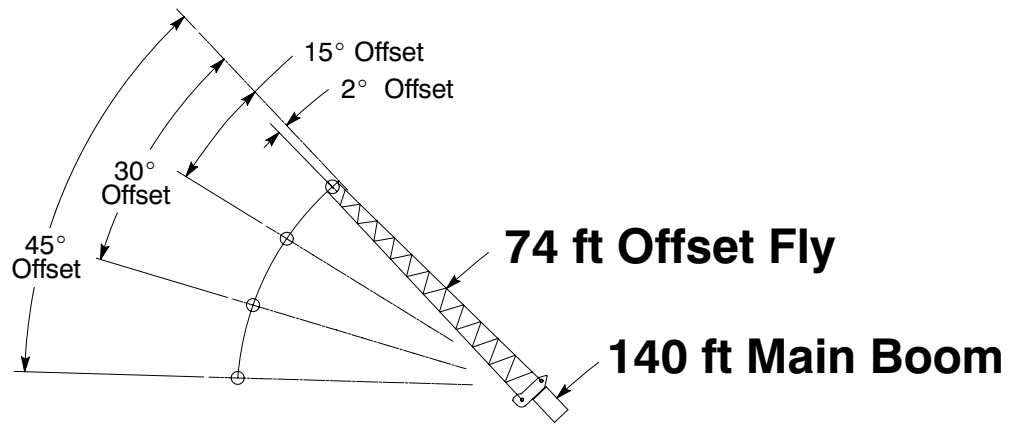
Rated Lifting Capacities In Pounds			 Full		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 0°	360°	 0°	360°	 0°	360°	 0°	360°
45	79.5	8,500						
50	78.5	8,400						
55	77.5	8,300						
60	76.0	8,100	80.0	7,200				
65	75.0	8,000	78.5	7,000				
70	73.5	7,800	77.0	6,800				
75	72.5	7,700	76.0	6,700	79.5	5,700		
80	71.0	7,500	74.5	6,500	78.0	5,600		
85	69.5	7,300	73.0	6,300	76.5	5,500		
90	68.0	7,100	71.5	6,200	75.0	5,400	78.0	4,900
95	66.5	6,900	70.0	6,000	73.5	5,300	76.5	4,800
100	65.0	6,700	68.5	5,900	72.0	5,200	75.0	4,800
105	63.5	6,500	67.0	5,700	70.5	5,100	73.5	4,700
110	62.0	6,300	65.5	5,600	68.5	5,000	71.5	4,700
115	60.0	6,000	63.5	5,500	67.0	4,900	69.5	4,700
120	58.5	5,800	62.0	5,300	65.0	4,800	68.0	4,600
125	56.5	5,600	60.0	5,100	63.5	4,700	66.0	4,500
130	54.5	5,300	58.0	4,900	61.5	4,500	63.5	4,400
135	52.5	4,800	56.0	4,700	59.5	4,400	61.5	4,300
140	50.0	4,300	54.0	4,600	57.0	4,300	59.5	4,200
145	47.5	3,900	51.5	4,200	55.0	4,200	57.0	4,100
150	45.0	3,500	49.0	3,800	52.5	4,100	54.0	4,000
155	42.5	3,100	46.5	3,400	49.5	3,700	51.0	3,800
160	40.0	2,800	43.5	3,100	46.5	3,300	47.5	3,300
165	37.0	2,500	40.5	2,700	43.5	2,900	44.0	2,900
170	34.0	2,200	37.5	2,400	40.0	2,500		
175	30.5	1,900	34.0	2,100	35.5	2,200		
180	26.5	1,700	29.5	1,800	30.5	1,800		
185	21.5	1,400	24.5	1,500				
190	13.5	1,200						
Min.Bm. Ang./Cap.	1.0		4.5		9.0		13.0	
Radius (ft)	191.0		190.1		186.4		180.1	
Maximum Boom Length At 0° Boom Angle (ft)	135							

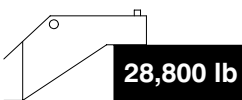
Not for crane operations



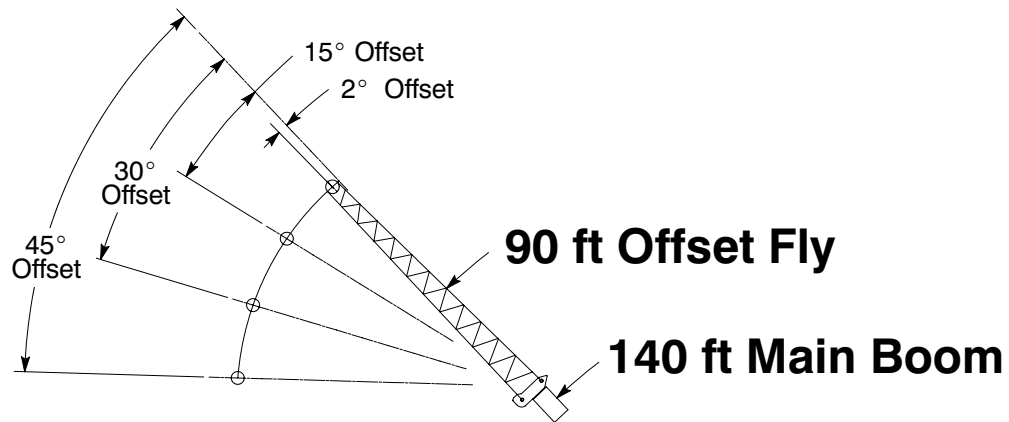
Rated Lifting Capacities In Pounds			 Full		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	11,600						
40	78.5	11,200						
45	77.0	10,700						
50	75.5	10,300						
55	74.0	9,800						
60	72.5	9,400						
65	70.5	9,000						
70	69.0	8,600						
75	67.5	8,200						
80	65.5	7,900						
85	63.5	7,500						
90	62.0	7,200						
95	60.0	7,000						
100	58.0	6,700						
105	56.0	6,500						
110	54.0	6,200						
115	51.5	6,000						
120	49.5	5,800						
125	47.0	5,400						
130	44.0	4,900						
135	41.5	4,400						
140	38.5	4,000						
145	35.0	3,500						
150	31.5	3,100						
155	27.5	2,800						
160	22.0	2,500						
165	14.5	2,200						
Min.Bm. Ang./Cap.	0.0	800	0.0	900	0.0	1,000	0.0	1,200
Radius (ft)	166.8		166.0		162.6		156.6	

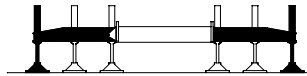
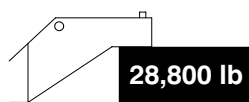
Not for crane operations



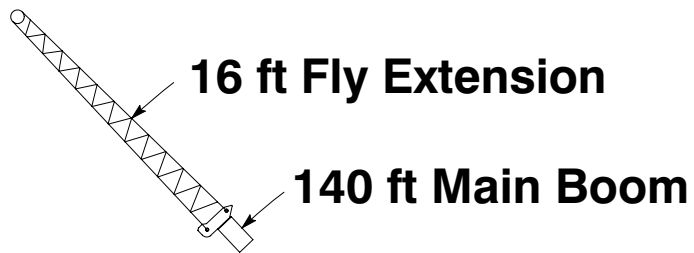
Rated Lifting Capacities In Pounds			 Full		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
50	79.0	6,600						
55	78.0	6,600						
60	77.0	6,600						
65	76.0	6,600	79.0	6,300				
70	75.0	6,600	77.5	6,000				
75	73.5	6,600	76.5	5,700	79.5	4,600		
80	72.5	6,400	75.0	5,400	78.0	4,400		
85	71.0	6,000	73.5	5,100	77.0	4,200	80.0	3,700
90	69.5	5,700	72.0	4,900	75.5	4,100	78.5	3,500
95	68.0	5,400	70.5	4,600	74.0	3,900	77.0	3,400
100	66.5	5,100	69.5	4,400	72.5	3,700	75.5	3,300
105	65.5	4,900	68.0	4,200	71.0	3,600	74.0	3,200
110	64.0	4,700	66.5	4,100	69.5	3,500	72.0	3,100
115	62.5	4,500	65.0	3,900	68.0	3,300	70.5	3,000
120	60.5	4,300	63.5	3,700	66.5	3,200	69.0	2,900
125	59.0	4,100	61.5	3,600	65.0	3,100	67.5	2,800
130	57.5	3,900	60.0	3,500	63.0	3,000	65.5	2,700
135	56.0	3,800	58.5	3,300	61.5	2,900	64.0	2,700
140	54.0	3,600	56.5	3,200	59.5	2,800	62.0	2,600
145	52.5	3,500	55.0	3,100	58.0	2,800	60.0	2,600
150	50.5	3,400	53.0	3,000	56.0	2,700	58.0	2,500
155	48.5	3,000	51.0	2,900	54.0	2,600	56.0	2,500
160	46.0	2,600	49.0	2,800	52.0	2,600	53.5	2,500
165	44.0	2,300	47.0	2,600	50.0	2,500	51.5	2,500
170	41.5	2,000	44.5	2,300	47.5	2,500	48.5	2,500
175	39.0	1,800	42.0	2,000	44.5	2,200	45.5	2,200
180	36.0	1,500	39.0	1,700	41.5	1,800		
185	33.5	1,200	36.0	1,400	38.5	1,500		
190	30.0	1,000	33.0	1,200	34.5	1,300		
195			29.0	900	30.5	1,000		
Min.Bm. Ang./Cap.	28.5		26.5		28.5		27.5	
Radius (ft)	192.5		197.5		196.7		190.6	
Maximum Boom Length At 0° Boom Angle (ft)	123							

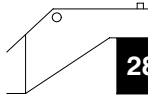
Not for crane operations



Rated Lifting Capacities In Pounds			 Full		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
55	79.0	5,200						
60	78.0	5,200						
65	77.5	5,200						
70	76.5	5,200	79.0	4,800				
75	75.5	5,100	78.0	4,500				
80	74.0	4,800	76.5	4,200	79.5	3,600		
85	73.0	4,500	75.5	4,000	78.5	3,400		
90	71.5	4,200	74.0	3,700	77.0	3,200	80.0	2,900
95	70.0	4,000	72.5	3,500	76.0	3,000	78.5	2,700
100	69.0	3,700	71.5	3,300	74.5	2,900	77.0	2,600
105	67.5	3,500	70.0	3,100	73.0	2,700	76.0	2,400
110	66.0	3,300	68.5	3,000	72.0	2,600	74.5	2,300
115	65.0	3,200	67.5	2,800	70.5	2,400	73.0	2,200
120	63.5	3,000	66.0	2,700	69.0	2,300	71.5	2,100
125	62.0	2,800	64.5	2,500	67.5	2,200	70.0	2,000
130	60.5	2,700	63.0	2,400	66.0	2,100	68.5	1,900
135	59.0	2,500	61.5	2,300	64.5	2,000	67.0	1,800
140	57.5	2,400	60.0	2,200	63.0	1,900	65.5	1,800
145	56.0	2,300	58.5	2,100	61.5	1,800	63.5	1,700
150	54.5	2,200	57.0	2,000	60.0	1,700	62.0	1,600
155	53.0	2,100	55.5	1,900	58.0	1,700	60.0	1,600
160	51.0	2,000	53.5	1,800	56.5	1,600	58.5	1,500
165	49.5	1,900	52.0	1,700	54.5	1,500	56.5	1,500
170	47.5	1,800	50.0	1,600	53.0	1,500	54.5	1,400
175	45.5	1,700	48.5	1,600	51.0	1,400	52.5	1,400
180	43.5	1,500	46.5	1,500	49.0	1,400	50.0	1,400
185	41.5	1,200	44.0	1,400	46.5	1,400	47.5	1,400
190	39.0	1,000	41.5	1,200	44.5	1,300	45.0	1,400
195			39.0	900	41.5	1,100		
Min.Bm. Ang./Cap.	38.0		38.0		39.5		39.0	
Radius (ft)	192.5		197.5		198.3		198.3	
Maximum Boom Length At 0° Boom Angle (ft)	110							

Not for crane operations



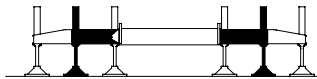
Rated Lifting Capacities In Pounds  Full  28,800 lb 		
Load Radius In (ft)	$\angle$ °	360°
35	78.0	15,600
40	77.5	15,600
45	76.0	15,600
50	74.5	15,600
55	72.5	15,600
60	71.0	15,600
65	69.0	15,600
70	66.5	15,600
75	64.5	14,800
80	62.0	13,100
85	59.5	11,800
90	57.0	10,600
95	54.5	9,500
100	52.0	8,500
105	49.0	7,600
110	46.0	6,900
115	43.0	6,200
120	40.0	5,500
125	36.5	5,000
130	33.0	4,400
135	28.5	4,000
140	23.5	3,500
145	17.0	3,100
Min.Bm. Ang./Cap.	0.0	1,100
Radius (ft)	149.0	

Not for crane operations

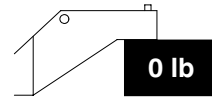
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Not for crane operations

Rated Lifting Capacities In Pounds



Intermediate

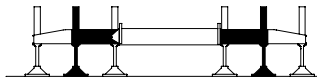


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
	 360°		 360°		 360°		 360°		 360°		 360°	
10	68.0	136,500	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	121,000	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	82,900	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.0	40,700	61.0	44,900	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.0	24,400	54.0	28,200	61.0	30,000	66.0	30,900	70.0	31,400	72.5	31,600
30	18.0	15,600	46.0	19,400	55.0	21,100	61.0	21,900	65.5	22,300	69.0	22,500
35			36.5	13,800	49.0	15,500	56.0	16,200	61.5	16,700	65.0	16,900
40			23.5	10,100	41.5	11,800	51.0	12,500	57.0	12,900	61.5	13,000
45					33.0	9,000	45.0	9,800	52.0	10,200	57.5	10,400
50					21.5	6,800	38.5	7,600	47.5	8,100	53.5	8,300
55							30.5	5,900	42.0	6,400	49.0	6,600
60							19.5	4,600	35.5	5,000	44.5	5,300
65									28.5	3,900	39.5	4,200
70									18.5	3,000	33.5	3,200
75											27.0	2,400
80											17.5	1,800
Min.Bm. Ang./Cap.	0.0	14,200	0.0	8,200	0.0	5,700	0.0	3,900	0.0	2,500	0.0	1,400
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

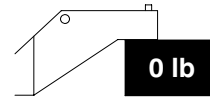
Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft	
	 360°		 360°		 360°	
20	77.5	32,100	79.0	27,200		
25	75.0	31,400	76.5	27,200	78.0	28,000
30	71.5	22,400	73.5	22,200	75.5	21,800
35	68.0	16,700	70.5	16,600	72.5	16,200
40	64.5	12,900	67.5	12,800	70.0	12,500
45	61.5	10,200	64.5	10,100	67.0	9,800
50	58.0	8,100	61.5	8,000	64.0	7,700
55	54.0	6,500	58.0	6,400	61.5	6,100
60	50.5	5,200	55.0	5,100	58.5	4,800
65	46.5	4,100	51.5	4,000	55.5	3,700
70	42.0	3,200	48.0	3,100	52.5	2,800
75	37.0	2,400	44.0	2,300	49.0	2,000
80	32.0	1,700	40.0	1,600	45.5	1,400
85	25.5	1,100	35.5	1,000		
Min.Bm. Ang./Cap.	21.5		34.0		43.0	
Radius (ft)	87.1		86.3		83.4	

Not for crane operations

**Rated Lifting Capacities
In Pounds**



Intermediate

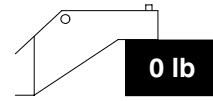
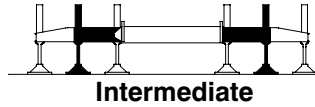


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	68.0	136,500	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	121,000	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	82,900	67.5	87,200	72.0	79,900	75.0	70,800
20	49.0	40,700	61.0	43,800	66.5	45,300	70.5	45,800
25	37.0	24,400	53.5	27,200	61.0	28,600	66.0	29,000
30	18.0	15,600	46.0	18,600	55.0	19,800	61.0	20,200
35			36.5	13,000	48.5	14,300	56.0	14,700
40			23.5	9,300	41.5	10,600	50.5	11,000
45					33.0	7,800	44.5	8,300
50					21.5	5,700	38.0	6,200
55							30.5	4,600
60							19.5	3,200
Min.Bm. Ang./Cap.	0.0	14,200	0.0	7,500	0.0	4,700	0.0	2,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
12	79.5	70,700				
15	77.5	67,700	79.0	54,200		
20	73.5	46,000	76.0	46,000	78.0	45,300
25	69.5	29,100	72.0	29,100	74.5	28,600
30	65.0	20,300	68.5	20,300	71.0	19,900
35	61.0	14,800	65.0	14,800	68.0	14,400
40	56.5	11,200	61.0	11,200	64.5	10,800
45	52.0	8,500	57.0	8,500	61.0	8,100
50	47.0	6,400	53.0	6,400	57.5	6,100
55	41.5	4,800	49.0	4,800	54.0	4,500
60	35.5	3,400	44.0	3,500	50.0	3,200
65	28.5	2,300	39.0	2,400	46.0	2,100
70	18.5	1,400	33.5	1,500	42.0	1,200
Min.Bm. Ang./Cap.	12.0		30.0		41.0	
Radius (ft)	71.8		72.3		71.0	

Not for crane operations

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



Load Radius (ft)	38.0 ft		50.7 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
10	68.0	136,500	74.0	137,600
12	64.5	121,000	72.0	122,300
15	59.0	82,900	68.0	87,400
20	49.0	40,700	61.5	43,900
25	37.0	24,400	54.5	27,400
30	18.0	15,600	46.5	18,700
35			37.5	13,200
40			25.5	9,400
Min.Bm. Ang./Cap.	0.0	14,200	0.0	7,200
Radius (ft)	31.0		43.7	

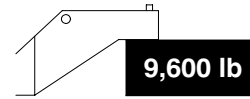
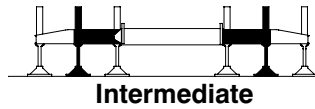
Load Radius (ft)	63.7 ft		76.5 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.0	88,300	76.5	78,400
20	68.0	44,500	72.0	43,800
25	63.0	27,900	68.0	27,300
30	57.5	19,200	63.5	18,600
35	51.5	13,800	59.0	13,300
40	45.5	10,200	54.5	9,700
45	38.0	7,400	49.5	7,000
50	29.5	5,300	44.5	5,000
55	16.0	3,700	38.5	3,400
60			31.5	2,100
Min.Bm. Ang./Cap.	0.0	3,200	25.5	
Radius (ft)	56.7		63.3	

Not for crane operations

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Not for crane operations

**Rated Lifting Capacities
In Pounds**

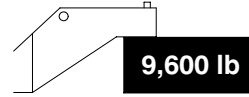
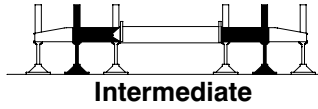


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
		360°		360°		360°		360°		360°		360°
10	68.0	139,200	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	123,400	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	102,500	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.5	55,200	61.0	59,000	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.5	34,400	54.0	38,200	61.5	36,100	66.5	36,300	70.0	37,900	73.0	33,500
30	18.0	23,300	46.0	27,000	55.5	28,700	61.5	29,400	66.0	29,900	69.5	30,100
35			36.5	20,000	49.0	21,700	56.5	22,400	61.5	22,900	65.5	23,100
40			23.5	15,200	42.0	16,900	51.0	17,600	57.0	18,100	62.0	18,200
45					33.0	13,400	45.0	14,200	52.5	14,600	58.0	14,800
50					21.5	10,800	38.5	11,500	47.5	12,000	53.5	12,200
55							30.5	9,400	42.0	9,900	49.5	10,100
60							20.0	7,700	36.0	8,200	44.5	8,500
65									28.5	6,800	39.5	7,100
70									18.5	5,600	34.0	5,900
75											27.0	4,900
80											17.5	4,000
Min.Bm. Ang./Cap.	0.0	21,500	0.0	13,000	0.0	9,400	0.0	6,900	0.0	5,000	0.0	3,600
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft		140.0 ft	
		360°		360°		360°		360°		360°
20	77.5	32,100	79.0	27,200						
25	75.0	32,100	76.5	27,200	78.0	28,000	79.5	26,900		
30	72.0	29,900	74.0	27,200	76.0	28,000	77.5	26,500	78.5	24,400
35	68.5	22,900	71.0	22,800	73.0	22,400	75.0	21,900	76.5	21,600
40	65.0	18,100	68.0	18,000	70.5	17,600	72.5	17,200	74.0	16,800
45	61.5	14,600	65.0	14,500	67.5	14,100	69.5	13,700	71.5	13,300
50	58.0	12,100	62.0	12,000	64.5	11,600	67.0	11,200	69.5	10,900
55	54.5	10,000	58.5	9,900	62.0	9,600	64.5	9,200	67.0	8,900
60	50.5	8,400	55.5	8,300	59.0	7,900	62.0	7,500	64.5	7,200
65	46.5	7,000	52.0	6,900	56.0	6,600	59.0	6,200	62.0	5,900
70	42.5	5,800	48.5	5,800	53.0	5,400	56.5	5,100	59.5	4,700
75	37.5	4,800	44.5	4,800	49.5	4,500	53.5	4,100	57.0	3,800
80	32.0	4,000	40.5	3,900	46.0	3,600	50.5	3,300	54.5	3,000
85	25.5	3,200	35.5	3,200	42.5	2,900	47.5	2,600	51.5	2,300
90	16.5	2,600	30.5	2,500	38.5	2,300	44.0	1,900	48.5	1,600
95			24.5	2,000	34.0	1,700	40.5	1,400	46.0	1,100
100			16.0	1,500	29.5	1,200				
Min.Bm. Ang./Cap.	0.0	2,300	0.0	1,200	23.5		37.5		44.5	
Radius (ft)	93.0		103.0		104.9		99.1		97.3	

Not for crane operations

**Rated Lifting Capacities
In Pounds**

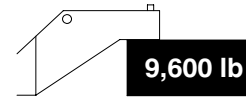
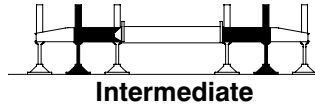


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
10	68.0	139,200	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	123,400	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	102,500	67.5	103,300	72.0	79,900	75.0	70,800
20	49.5	55,200	61.0	58,200	67.0	59,800	71.0	60,300
25	37.5	34,400	54.0	37,300	61.0	38,500	66.0	39,000
30	18.0	23,300	46.0	26,200	55.0	27,400	61.0	27,800
35			36.5	19,200	49.0	20,500	56.0	20,900
40			23.5	14,500	41.5	15,800	50.5	16,200
45					33.0	12,300	45.0	12,700
50					21.5	9,700	38.5	10,200
55							30.5	8,100
60							19.5	6,400
Min.Bm. Ang./Cap.	0.0	21,500	0.0	12,200	0.0	8,300	0.0	5,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	Δ°	360°	Δ°	360°	Δ°	360°	Δ°	360°
12	79.5	70,700						
15	77.5	67,700	79.0	54,200				
20	74.0	58,400	76.0	52,000	78.0	49,100		
25	69.5	39,100	72.5	39,100	75.0	38,500	78.0	36,300
30	65.5	27,900	69.0	27,900	71.5	27,400	75.0	26,800
35	61.0	21,000	65.0	21,000	68.0	20,600	72.0	20,000
40	57.0	16,300	61.5	16,300	65.0	15,900	69.0	15,400
45	52.0	12,900	57.5	12,900	61.5	12,600	66.5	12,100
50	47.5	10,300	53.5	10,400	58.0	10,000	63.5	9,500
55	42.0	8,300	49.0	8,300	54.5	8,000	60.5	7,500
60	35.5	6,600	44.5	6,700	50.5	6,400	57.5	5,900
65	28.5	5,200	39.5	5,300	46.5	5,000	54.0	4,600
70	18.5	4,100	33.5	4,200	42.0	3,900	51.0	3,500
75			27.0	3,200	37.5	2,900	47.5	2,500
80			17.5	2,400	32.0	2,100	44.0	1,700
85					25.5	1,300	40.0	1,000
Min.Bm. Ang./Cap.	0.0	3,500	0.0	1,900	19.0		39.0	
Radius (ft)	73.0		83.0		88.5		86.0	

Not for crane operations

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



Load Radius (ft)	38.0 ft		50.7 ft	
	$\angle$ °	360°	$\angle$ °	360°
10	68.0	139,200	74.0	140,200
12	64.5	123,400	72.0	124,700
15	59.0	102,500	68.0	104,700
20	49.5	55,200	61.5	58,400
25	37.5	34,400	54.5	37,400
30	18.0	23,300	46.5	26,300
35			37.5	19,300
40			25.5	14,600
Min.Bm. Ang./Cap.	0.0	21,500	0.0	11,900
Radius (ft)	31.0		43.7	

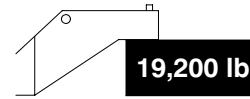
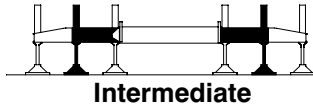
Load Radius (ft)	63.7 ft		76.5 ft	
	$\angle$ °	360°	$\angle$ °	360°
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.5	105,000	76.5	78,400
20	68.0	59,000	72.5	58,200
25	63.0	38,000	68.0	37,300
30	57.5	26,800	64.0	26,200
35	51.5	20,000	59.5	19,500
40	45.5	15,300	54.5	14,800
45	38.0	11,900	50.0	11,500
50	29.5	9,200	44.5	8,900
55	16.5	7,200	38.5	6,900
60			31.5	5,200
65			22.5	3,900
Min.Bm. Ang./Cap.	0.0	6,500	0.0	2,800
Radius (ft)	56.7		69.5	

Not for crane operations

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Rated Lifting Capacities In Pounds

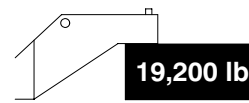
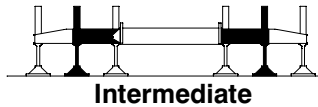


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
		360°		360°		360°		360°		360°		360°
10	68.0	141,800	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	125,800	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	107,100	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.5	69,700	61.0	59,000	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.5	44,400	54.0	48,200	61.5	36,100	66.5	36,300	70.0	37,900	73.0	33,500
30	18.0	30,900	46.0	34,700	55.5	32,000	61.5	32,400	66.0	33,900	69.5	31,400
35			36.5	26,200	49.0	27,900	56.5	28,600	62.0	29,000	66.0	28,100
40			24.0	20,400	42.0	22,100	51.0	22,800	57.5	23,300	62.0	23,400
45					33.5	17,900	45.5	18,600	53.0	19,100	58.0	19,200
50					21.5	14,700	38.5	15,400	48.0	15,900	54.0	16,000
55							31.0	12,900	42.5	13,300	49.5	13,600
60							20.0	10,900	36.5	11,400	45.0	11,600
65									29.0	9,700	40.0	9,900
70									19.0	8,300	34.0	8,500
75											27.5	7,300
80											18.0	6,300
Min.Bm. Ang./Cap.	0.0	28,800	0.0	17,700	0.0	12,900	0.0	9,900	0.0	7,600	0.0	5,800
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft		140.0 ft	
		360°		360°		360°		360°		360°
20	77.5	32,100	79.0	27,200						
25	75.0	32,100	76.5	27,200	78.0	28,000	79.5	26,900		
30	72.0	32,100	74.0	27,200	76.0	28,000	77.5	26,500	78.5	24,400
35	69.0	29,000	71.5	27,200	73.5	28,000	75.5	26,300	77.0	24,100
40	65.5	23,300	68.5	23,200	71.0	22,800	73.0	22,400	75.0	22,000
45	62.0	19,100	65.5	19,000	68.0	18,600	70.5	18,200	72.5	17,800
50	58.5	15,900	62.5	15,800	65.0	15,400	67.5	15,000	70.0	14,700
55	55.0	13,400	59.0	13,300	62.5	13,000	65.0	12,700	67.5	12,400
60	51.0	11,500	55.5	11,400	59.5	11,100	62.5	10,700	65.0	10,400
65	47.0	9,900	52.5	9,800	56.5	9,400	59.5	9,100	62.5	8,800
70	42.5	8,500	48.5	8,400	53.0	8,100	57.0	7,700	60.0	7,400
75	38.0	7,300	45.0	7,200	50.0	6,900	54.0	6,500	57.5	6,200
80	32.5	6,200	40.5	6,200	46.5	5,900	51.0	5,600	55.0	5,200
85	26.0	5,400	36.0	5,300	43.0	5,000	48.0	4,700	52.0	4,400
90	17.0	4,600	31.0	4,500	39.0	4,200	44.5	3,900	49.0	3,600
95			24.5	3,800	34.5	3,600	41.0	3,200	46.0	2,900
100			16.0	3,200	29.5	3,000	37.5	2,600	43.0	2,300
105					23.5	2,400	33.0	2,100	39.5	1,800
110					15.5	1,900	28.5	1,600	36.0	1,300
115							23.0	1,200	32.0	900
Min.Bm. Ang./Cap.	0.0	4,200	0.0	2,900	0.0	1,700	17.0		30.0	
Radius (ft)	93.0		103.0		113.0		118.7		117.4	

Not for crane operations

**Rated Lifting Capacities
In Pounds**

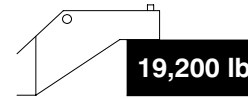
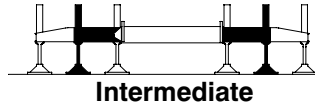


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	68.0	141,800	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	125,800	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	107,100	67.5	103,300	72.0	79,900	75.0	70,800
20	49.5	69,700	61.0	72,700	67.0	67,800	71.0	63,500
25	37.5	44,400	54.0	47,300	61.5	48,600	66.0	49,000
30	18.0	30,900	46.0	33,800	55.5	35,000	61.5	35,400
35			36.5	25,400	49.0	26,700	56.5	27,000
40			23.5	19,600	41.5	21,000	51.0	21,400
45					33.0	16,700	45.0	17,200
50					21.5	13,600	38.5	14,000
55							30.5	11,600
60							20.0	9,600
Min.Bm. Ang./Cap.	0.0	28,800	0.0	16,900	0.0	12,000	0.0	8,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
12	79.5	70,700						
15	77.5	67,700	79.0	54,200				
20	74.0	58,400	76.0	52,000	78.0	49,100		
25	70.0	49,100	73.0	45,600	75.0	45,200	78.0	36,300
30	65.5	35,500	69.0	35,500	72.0	35,100	75.5	34,500
35	61.5	27,100	65.5	27,100	68.5	26,700	72.5	26,100
40	57.0	21,500	61.5	21,500	65.0	21,100	69.5	20,500
45	52.5	17,300	57.5	17,300	61.5	16,900	66.5	16,400
50	47.5	14,200	53.5	14,200	58.0	13,800	64.0	13,300
55	42.0	11,800	49.5	11,900	54.5	11,500	61.0	11,000
60	36.0	9,800	44.5	9,900	50.5	9,500	57.5	9,100
65	28.5	8,100	39.5	8,200	46.5	7,900	54.5	7,500
70	18.5	6,700	34.0	6,800	42.5	6,500	51.5	6,100
75			27.0	5,600	37.5	5,300	48.0	5,000
80			17.5	4,600	32.0	4,300	44.0	4,000
85					25.5	3,500	40.0	3,100
90					16.5	2,700	36.0	2,300
95							31.0	1,700
100							25.0	1,100
Min.Bm. Ang./Cap.	0.0	6,000	0.0	4,100	0.0	2,300	21.0	
Radius (ft)	73.0		83.0		93.0		102.8	

Not for crane operations

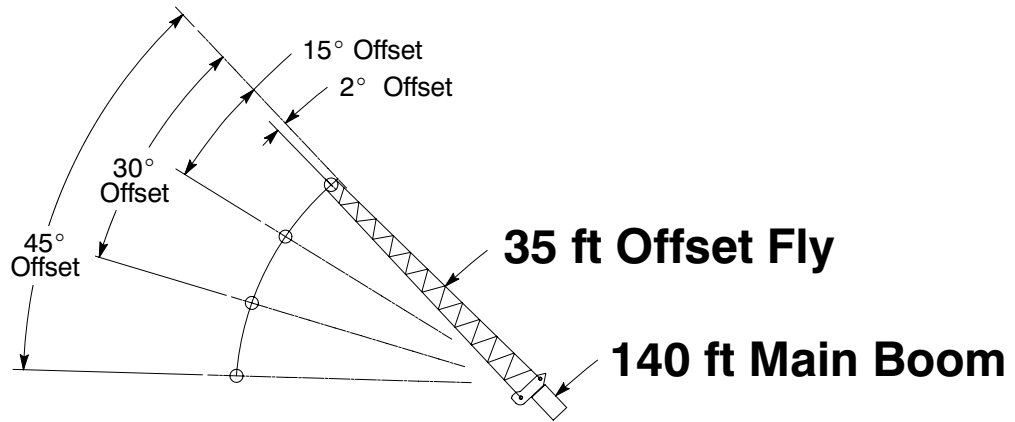
**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**

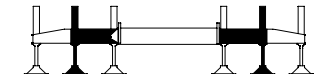
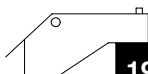


Load Radius (ft)	38.0 ft		50.7 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
10	68.0	141,800	74.5	142,800
12	64.5	125,800	72.0	127,100
15	59.0	107,100	68.0	108,600
20	49.5	69,700	61.5	72,900
25	37.5	44,400	54.5	47,400
30	18.0	30,900	46.5	33,900
35			37.5	25,500
40			25.5	19,800
Min.Bm. Ang./Cap.	0.0	28,800	0.0	16,500
Radius (ft)	31.0		43.7	

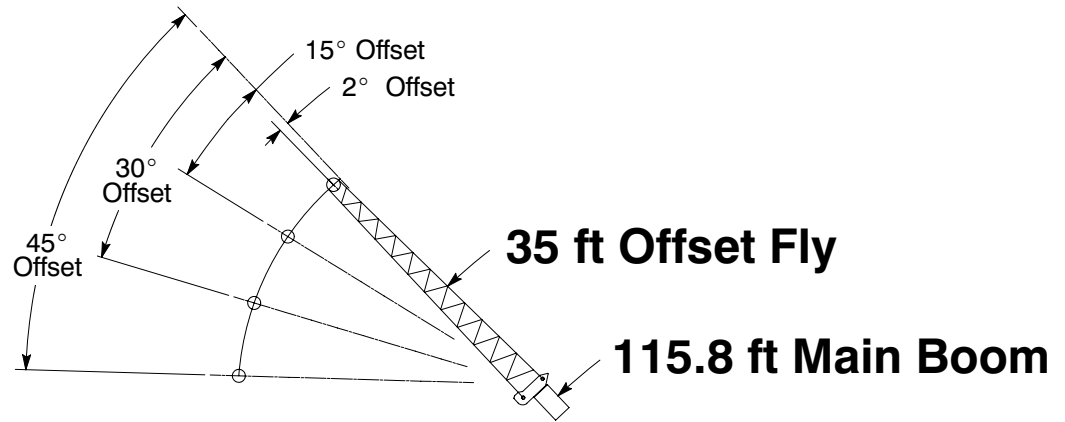
Load Radius (ft)	63.7 ft		76.5 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.5	106,500	76.5	78,400
20	68.5	73,500	72.5	72,700
25	63.0	47,900	68.5	47,300
30	57.5	34,500	64.0	33,900
35	52.0	26,100	59.5	25,600
40	45.5	20,500	55.0	20,000
45	38.5	16,300	50.0	15,900
50	29.5	13,100	44.5	12,800
55	16.5	10,700	38.5	10,400
60			31.5	8,400
65			22.5	6,800
Min.Bm. Ang./Cap.	0.0	9,900	0.0	5,500
Radius (ft)	56.7		69.5	

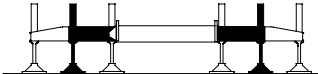
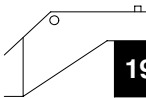
Not for crane operations



Rated Lifting Capacities In Pounds			 Intermediate		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	12,100	80.0	11,500				
40	78.5	12,100						
45	77.5	12,100						
50	76.0	12,100	78.5	11,400	79.5	10,000		
55	74.5	12,100	77.0	11,200				
60	73.0	11,000	75.5	11,000				
65	71.0	9,400	74.0	10,200	76.5	9,700	78.5	8,800
70	68.5	8,000	71.5	8,700	75.0	9,500	77.0	8,800
75	66.5	6,800	69.5	7,500	72.5	8,200	75.0	8,700
80	64.5	5,800	67.5	6,400	70.5	7,000	73.0	7,500
85	62.5	4,900	65.5	5,500	68.5	6,000	70.5	6,500
90	60.5	4,100	63.5	4,700	66.0	5,200	68.0	5,600
95	58.5	3,400	61.0	3,900	64.0	4,400	66.0	4,800
100	56.0	2,800	59.0	3,300	61.5	3,700	63.5	4,000
105	54.0	2,300	56.5	2,700	59.5	3,100	61.0	3,400
110	51.5	1,800	54.5	2,200	57.0	2,500	58.5	2,800
115	49.5	1,400	52.0	1,700	54.5	2,000	56.0	2,200
120	47.0	1,000	49.5	1,300	52.0	1,600	53.5	1,700
125			47.0	900	49.5	1,100	50.5	1,300
130							47.5	900
Min.Bm. Ang./Cap.	46.0		46.0		47.5		45.0	
Radius (ft)	122.0		127.0		128.3		134.0	
Maximum Boom Length At 0° Boom Angle (ft)	115							

Not for crane operations



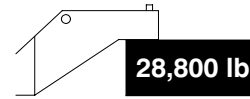
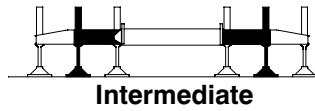
Rated Lifting Capacities In Pounds			 Intermediate		 19,200 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
		360°		360°		360°		360°
30	79.5	20,000	78.5	13,700				
35	78.0	19,000						
40	76.0	18,100						
45	74.5	17,200	77.0	13,200	80.0	11,100	78.5	9,400
50	72.0	14,700	75.0	12,700	78.0	10,800		
55	70.0	12,400	73.0	12,300	76.0	10,500		
60	67.5	10,400	71.0	11,300	74.0	10,300	76.5	9,200
65	65.5	8,700	68.5	9,600	72.0	10,000	74.0	9,100
70	63.0	7,300	66.0	8,100	69.5	8,900	72.0	9,000
75	60.5	6,200	63.5	6,900	67.0	7,600	69.5	8,200
80	58.0	5,200	61.5	5,800	64.5	6,400	67.0	6,900
85	55.5	4,300	59.0	4,900	62.0	5,400	64.0	5,900
90	53.0	3,500	56.0	4,000	59.0	4,600	61.5	4,900
95	50.5	2,800	53.5	3,300	56.5	3,800	58.5	4,100
100	48.0	2,200	51.0	2,700	53.5	3,100	55.5	3,300
105	45.0	1,700	48.0	2,100	50.5	2,400	52.0	2,700
110	42.0	1,200	45.0	1,600	47.5	1,900	49.0	2,000
115			42.0	1,100	44.0	1,400	45.0	1,500
120					40.5	900		
Min.Bm. Ang./Cap.	40.0		40.5		38.5		41.0	
Radius (ft)	113.8		117.5		123.0		120.0	
Maximum BoomLength At 0° Boom Angle (ft)	99							

Not for crane operations

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Not for crane operations

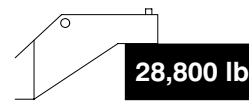
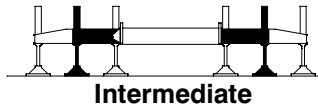
Rated Lifting Capacities In Pounds



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
		360°		360°		360°		360°		360°		360°
10	68.0	144,500	74.0	80,400	77.0	58,000	79.5	55,900				
12	64.5	128,300	71.5	75,000	75.0	53,700	77.5	52,300	79.5	41,800		
15	59.0	109,300	67.5	68,000	72.0	48,400	75.0	47,500	77.5	41,800	79.0	33,500
20	49.5	84,200	61.0	59,000	67.0	41,300	71.0	41,100	74.0	41,800	76.0	33,500
25	37.5	54,500	54.0	52,200	61.5	36,100	66.5	36,300	70.0	37,900	73.0	33,500
30	18.0	38,600	46.0	42,300	55.5	32,000	61.5	32,400	66.0	33,900	69.5	31,400
35			36.5	32,400	49.0	28,700	56.5	29,200	62.0	30,400	66.0	28,100
40			24.0	25,600	42.0	26,100	51.5	26,600	58.0	27,500	62.5	25,500
45					33.5	22,300	45.5	23,100	53.0	23,500	58.5	23,300
50					22.0	18,600	39.0	19,400	48.0	19,800	54.5	20,000
55							31.0	16,400	42.5	16,900	50.0	17,100
60							20.0	14,000	36.5	14,500	45.5	14,700
65									29.0	12,600	40.5	12,700
70									19.0	10,900	34.5	11,200
75											27.5	9,800
80											18.0	8,600
Min.Bm. Ang./Cap.	0.0	31,700	0.0	18,200	0.0	12,900	0.0	10,700	0.0	9,200	0.0	7,900
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft		140.0 ft	
		360°		360°		360°		360°		360°
20	77.5	32,100	79.0	27,200						
25	75.0	32,100	76.5	27,200	78.0	28,000	79.5	26,900		
30	72.0	32,100	74.0	27,200	76.0	28,000	77.5	26,500	78.5	24,400
35	69.0	29,700	71.5	27,200	73.5	28,000	75.5	26,300	77.0	24,100
40	66.0	27,100	69.0	27,200	71.5	27,900	73.5	26,100	75.0	24,000
45	62.5	23,600	66.0	23,500	68.5	23,100	71.0	22,700	73.0	22,300
50	59.0	19,900	62.5	19,700	65.5	19,400	68.5	19,000	70.5	18,600
55	55.5	16,900	59.5	16,800	63.0	16,500	65.5	16,100	68.0	15,700
60	51.5	14,600	56.0	14,500	60.0	14,100	63.0	13,700	65.5	13,400
65	47.5	12,800	52.5	12,700	56.5	12,300	60.0	12,000	63.0	11,600
70	43.0	11,100	49.0	11,000	53.5	10,700	57.5	10,400	60.5	10,000
75	38.0	9,700	45.0	9,700	50.5	9,400	54.5	9,000	58.0	8,700
80	32.5	8,500	41.0	8,500	47.0	8,200	51.5	7,800	55.5	7,500
85	26.0	7,500	36.5	7,400	43.0	7,200	48.5	6,800	52.5	6,500
90	17.0	6,600	31.5	6,500	39.5	6,200	45.0	5,900	49.5	5,600
95			25.0	5,700	35.0	5,400	41.5	5,100	46.5	4,800
100			16.5	5,000	30.0	4,700	38.0	4,400	43.5	4,100
105					24.0	4,100	33.5	3,800	40.0	3,500
110					16.0	3,500	29.0	3,200	36.5	2,900
115							23.0	2,700	32.5	2,400
120							15.5	2,200	28.0	1,900
125									22.5	1,500
130									15.0	1,100
Min.Bm. Ang./Cap.	0.0	6,100	0.0	4,600	0.0	3,200	0.0	2,000	0.0	900
Radius (ft)	93.0		103.0		113.0		123.0		133.0	

**Rated Lifting Capacities
In Pounds**

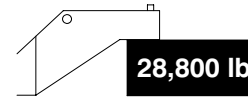
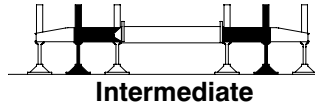


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	68.0	144,500	74.0	103,300	77.0	96,400	79.0	70,800
12	64.5	128,300	71.5	103,300	75.0	89,500	77.5	70,800
15	59.0	109,300	68.0	103,300	72.0	79,900	75.0	70,800
20	49.5	84,200	61.0	87,200	67.0	67,800	71.0	63,500
25	37.5	54,500	54.0	57,300	61.5	58,600	66.5	54,800
30	18.0	38,600	46.0	41,500	55.5	42,700	61.5	43,000
35			36.5	31,600	49.0	32,900	56.5	33,200
40			23.5	24,900	42.0	26,100	51.0	26,500
45					33.5	21,200	45.0	21,700
50					21.5	17,500	38.5	18,000
55							30.5	15,000
60							20.0	12,700
Min.Bm. Ang./Cap.	0.0	31,700	0.0	21,700	0.0	15,700	0.0	11,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
12	79.5	70,700						
15	77.5	67,700	79.0	54,200				
20	74.0	58,400	76.0	52,000	78.0	49,100		
25	70.0	51,200	73.0	45,600	75.0	45,200	78.0	36,300
30	66.0	43,100	69.5	40,600	72.5	42,200	76.0	35,900
35	61.5	33,300	66.0	33,300	69.0	32,900	73.0	32,300
40	57.5	26,600	62.0	26,600	65.5	26,200	70.0	25,600
45	52.5	21,800	58.0	21,800	62.0	21,400	67.0	20,900
50	47.5	18,100	54.0	18,200	58.5	17,800	64.5	17,300
55	42.0	15,200	49.5	15,300	55.0	14,900	61.0	14,400
60	36.0	12,900	45.0	13,000	51.0	12,700	58.0	12,200
65	29.0	11,000	40.0	11,100	47.0	10,800	55.0	10,300
70	18.5	9,400	34.0	9,500	42.5	9,200	51.5	8,800
75			27.0	8,100	38.0	7,800	48.0	7,400
80			17.5	6,900	32.5	6,600	44.5	6,300
85					26.0	5,600	40.5	5,200
90					17.0	4,700	36.0	4,300
95							31.5	3,600
100							25.5	2,800
105							17.5	2,200
Min.Bm. Ang./Cap.	0.0	8,500	0.0	6,300	0.0	4,200	0.0	1,800
Radius (ft)	73.0		83.0		93.0		108.8	

Not for crane operations

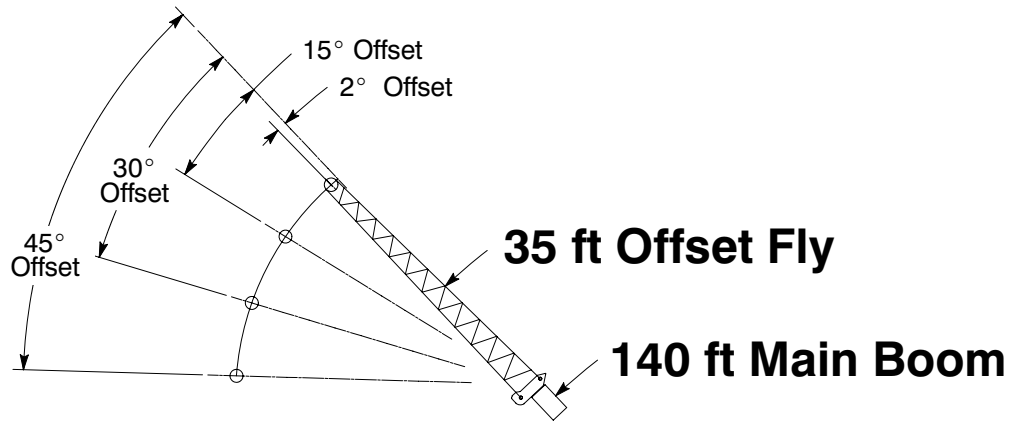
**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**

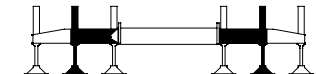
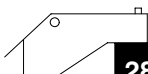


Load Radius (ft)	38.0 ft		50.7 ft	
	$\angle$ °	360°	$\angle$ °	360°
10	68.0	144,500	74.5	145,400
12	64.5	128,300	72.0	129,400
15	59.0	109,300	68.0	110,700
20	49.5	84,200	61.5	87,400
25	37.5	54,500	54.5	57,400
30	18.0	38,600	47.0	41,600
35			37.5	31,700
40			25.5	25,000
Min.Bm. Ang./Cap.	0.0	31,700	0.0	21,100
Radius (ft)	31.0		43.7	

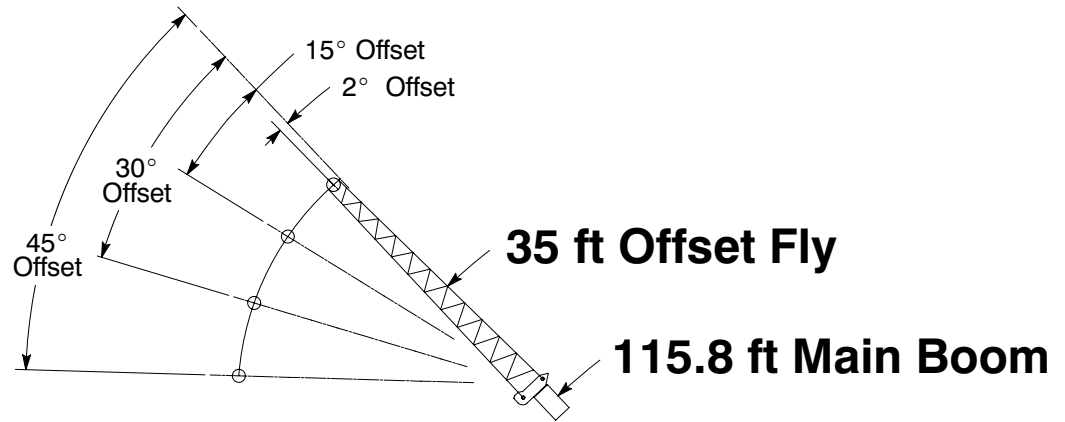
Load Radius (ft)	63.7 ft		76.5 ft	
	$\angle$ °	360°	$\angle$ °	360°
10	78.0	117,900		
12	76.0	108,800	79.0	85,100
15	73.5	106,500	76.5	78,400
20	68.5	87,900	73.0	76,500
25	63.0	57,900	68.5	57,200
30	57.5	42,100	64.0	41,500
35	52.0	32,300	59.5	31,800
40	45.5	25,600	55.0	25,200
45	38.5	20,800	50.0	20,400
50	29.5	17,100	44.5	16,800
55	16.5	14,200	38.5	13,900
60			31.5	11,600
65			22.5	9,600
Min.Bm. Ang./Cap.	0.0	13,300	0.0	8,200
Radius (ft)	56.7		69.5	

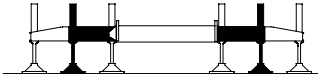
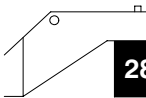
Not for crane operations



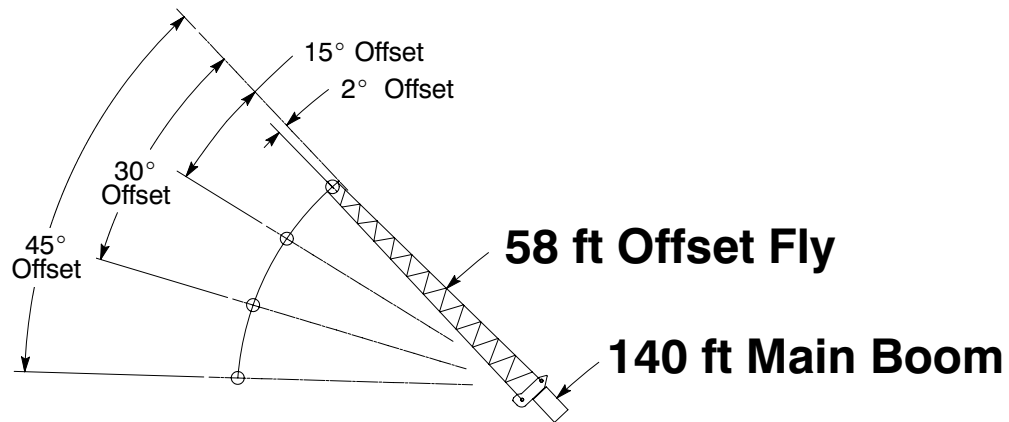
Rated Lifting Capacities In Pounds			 Intermediate		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 °	360°	 °	360°	 °	360°	 °	360°
35	80.0	12,100						
40	78.5	12,100						
45	77.5	12,100						
50	76.0	12,100	80.0	11,500				
55	74.5	12,100	78.5	11,400				
60	73.0	12,100	77.0	11,200				
65	72.0	12,100	75.5	11,000	79.5	10,000		
70	70.0	12,100	74.0	10,800	78.0	9,800		
75	67.5	12,100	72.5	10,600	76.5	9,700		
80	65.5	11,900	70.5	10,600	75.0	9,500	78.5	8,800
85	63.5	10,600		9,900	73.5	9,400	77.0	8,800
90	61.5	9,200					75.0	8,700
95	59.0	8,000	68.5	8,700	71.5	9,200	73.5	8,600
100	57.0	8,000	66.5	8,700	69.5	8,200	71.5	8,600
105	55.0	7,000	64.0	7,600	67.0	8,200	69.5	8,600
110	52.5	6,100	62.0	6,700	65.0	7,200		7,600
115	50.0	5,300	60.0	5,800	62.5	6,300		
120	48.0	4,600	57.5	5,100	60.0	5,500		
125	45.0	4,000	55.0	4,400		4,800		
130	42.5	3,400	53.0	3,800	58.0	4,100	59.5	4,400
135	40.0	2,900	50.5	3,200	55.5	3,600	57.0	3,800
140	37.0	2,400	48.0	2,700	52.5	3,000	54.0	3,200
145		2,000	45.0	2,300	50.0	2,500	51.5	2,700
		1,600	42.5	1,900	47.5	2,100	48.5	2,200
		1,300	40.0	1,500	44.5	1,700	45.0	1,700
		900	39.5	1,100	41.0	1,300		
					38.0	900		
Min.Bm. Ang./Cap.	36.0		37.5		36.5		38.0	
Radius (ft)	141.7		143.3		146.7		145.0	
Maximum Boom Length At 0° Boom Angle (ft)	128							

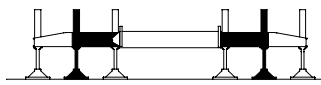
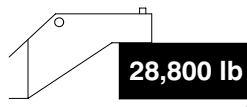
Not for crane operations



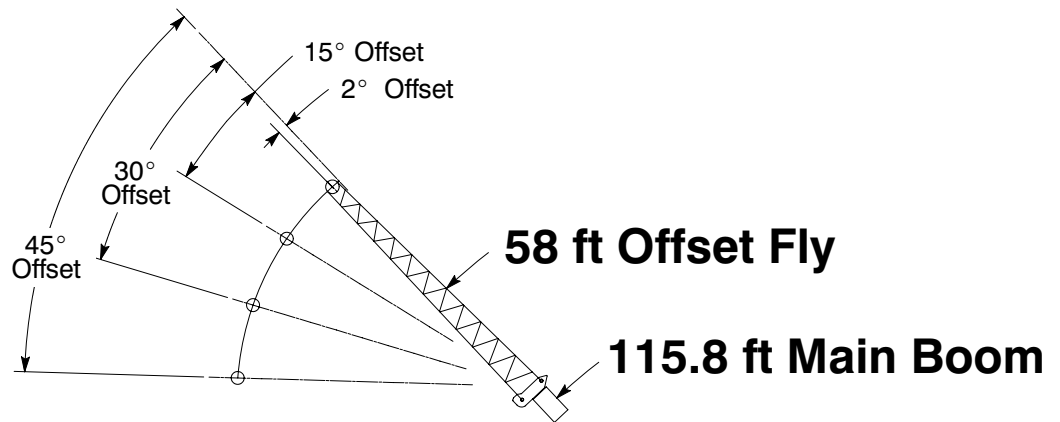
Rated Lifting Capacities In Pounds			 Intermediate		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
		360°		360°		360°		360°
30	79.5	20,000	78.5	13,700				
35	78.0	19,000						
40	76.0	18,100						
45	74.5	17,200	77.0	13,200	80.0	11,100	78.5	9,400
50	72.5	16,400	75.0	12,700	78.0	10,800		
55	70.5	14,500	73.0	12,300	76.0	10,500		
60	68.5	13,400	71.0	11,900	74.0	10,300	76.5	9,200
65	66.0	11,600	69.0	11,500	72.0	10,000	74.0	9,100
70	63.5	10,000	67.0	10,800	70.0	9,800	72.0	9,000
75	61.0	8,600	64.5	9,300	67.5	9,600	70.0	8,900
80	59.0	7,400	62.0	8,100	65.0	8,700	67.5	8,800
85	56.5	6,400	59.5	7,000	62.5	7,600	65.0	8,000
90	53.5	5,500	57.0	6,000	60.0	6,600	62.0	6,900
95	51.0	4,700	54.0	5,200	57.0	5,700	59.0	6,000
100	48.5	4,000	51.5	4,500	54.0	4,900	56.0	5,100
105	45.5	3,400	48.5	3,800	51.0	4,100	53.0	4,300
110	42.5	2,800	45.5	3,200	48.0	3,500	49.5	3,600
115	39.5	2,300	42.5	2,600	44.5	2,900	45.5	3,000
120	36.0	1,900	39.0	2,100	41.0	2,300		
125	32.5	1,400	35.0	1,700	37.0	1,800		
130	28.5	1,100	31.0	1,200	32.5	1,300		
Min.Bm. Ang./Cap.	26.0		27.5		27.0		20.5	
Radius (ft)	132.5		133.8		135.0		131.9	
Maximum Boom Length At 0° Boom Angle (ft)	112							

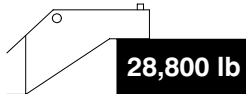
Not for crane operations



Rated Lifting Capacities In Pounds			 Intermediate		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
		360°		360°		360°		360°
45	79.5	8,500						
50	78.5	8,400						
55	77.5	8,300						
60	76.0	8,100						
65	75.0	8,000						
70	73.5	7,800						
75	72.5	7,700						
80	71.0	7,500						
85	69.5	7,300						
90	67.5	6,600						
95	66.0	5,800						
100	64.0	5,100						
105	62.0	4,400						
110	60.0	3,800						
115	58.0	3,300						
120	56.0	2,800						
125	54.0	2,400						
130	52.0	2,000						
135	50.0	1,600						
140	47.5	1,300						
145	45.5	1,000						
150								
155								
Min.Bm. Ang./Cap.	44.5		46.0		46.5		47.5	
Radius (ft)	148.0		151.7		156.7		157.5	
Maximum Boom Length At 0° Boom Angle (ft)	121							

Not for crane operations



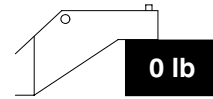
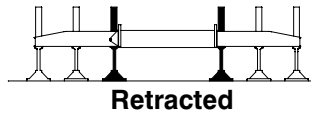
Rated Lifting Capacities In Pounds			 Intermediate		 28,800 lb			
Load Radius In (ft)	2° Offset		15° Offset		30° Offset		45° Offset	
	 0°	360°	 0°	360°	 0°	360°	 0°	360°
35	80.0	11,600						
40	78.5	11,200						
45	77.0	10,700						
50	75.5	10,300	79.5	8,400				
55	74.0	9,800	78.0	8,000				
60	72.5	9,400	76.5	7,700				
65	70.5	9,000	74.5	7,400	79.0	6,200		
70	69.0	8,600	73.0	7,100	77.5	6,000		
75	67.5	8,200	71.5	6,900	75.5	5,800	79.5	5,200
80	65.5	7,900	69.5	6,600	73.5	5,700	77.5	5,100
85	63.5	7,100	67.5	6,400	72.0	5,500	75.5	5,000
90	61.5	6,200	66.0	6,200	70.0	5,400	73.5	4,900
95	59.0	5,400	64.0	6,000	68.0	5,300	71.5	4,900
100	57.0	4,700	61.5	5,400	66.0	5,200	69.0	4,800
105	55.0	4,100	59.5	4,700	64.0	5,100	67.0	4,800
110	52.5	3,500	57.0	4,100	61.5	4,700	64.5	4,700
115	50.0	3,000	54.5	3,500	59.0	4,100	62.0	4,500
120	47.5	2,500	52.0	3,000	56.5	3,500	59.0	3,800
125	45.0	2,000	49.5	2,500	53.5	3,000	56.0	3,200
130	42.5	1,700	47.0	2,100	50.5	2,500	53.0	2,700
135	40.0	1,300	44.0	1,700	47.5	2,000	49.5	2,200
140	37.0	1,000	41.0	1,300	44.5	1,600	45.5	1,700
145			38.0	900	41.0	1,200		
Min.Bm. Ang./Cap.	36.0		37.0		38.0		38.0	
Radius (ft)	141.3		146.7		148.8		148.0	
Maximum Boom Length At 0° Boom Angle (ft)	105							

Not for crane operations

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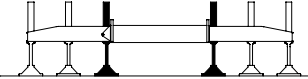
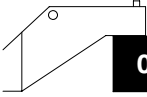
Rated Lifting Capacities In Pounds

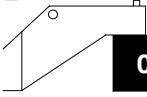


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
10	68.0	57,700	74.0	62,800	77.0	58,000
12	64.5	38,700	71.0	43,000	75.0	45,200
15	59.0	24,200	67.5	27,800	71.5	29,600
20	49.0	12,300	60.5	15,700	66.5	17,300
25	37.0	6,200	53.5	9,500	60.5	11,200
30	18.0	2,500	45.5	5,700	55.0	7,300
35			36.5	3,100	48.5	4,700
40			23.5	1,300	41.5	2,800
45					33.0	1,400
Min.Bm. Ang./Cap.	0.0	1,700	19.5		27.0	
Radius (ft)	31.0		41.0		47.5	

Load Radius (ft)	70.0 ft		80.0 ft		90.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
10	79.5	55,900				
12	77.5	46,200	79.5	41,800		
15	74.5	30,500	77.0	31,000	79.0	31,200
20	70.0	18,100	73.0	18,500	75.0	18,700
25	65.5	11,900	69.0	12,300	71.5	12,500
30	60.5	8,100	65.0	8,500	68.0	8,600
35	55.5	5,400	60.5	5,900	64.5	6,100
40	50.5	3,500	56.5	4,000	61.0	4,200
45	44.5	2,100	52.0	2,600	57.0	2,800
50	38.0	1,000	47.0	1,400	53.0	1,700
Min.Bm. Ang./Cap.	36.0		42.0		49.0	
Radius (ft)	51.3		54.3		54.4	

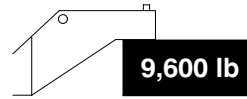
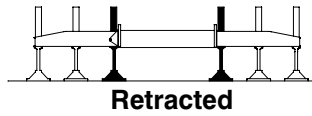
Not for crane operations

Rated Lifting Capacities In Pounds		 Retracted				 0 lb		
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
		360°		360°		360°		360°
10	68.0	57,700	73.5	61,400	77.0	63,400	79.0	64,000
12	64.5	38,700	71.0	41,800	74.5	43,400	77.0	43,900
15	59.0	24,200	67.5	26,800	71.5	28,100	74.5	28,600
20	49.0	12,300	60.5	14,900	66.0	16,100	70.0	16,500
25	37.0	6,200	53.5	8,800	60.5	10,000	65.5	10,400
30	18.0	2,500	45.5	5,000	55.0	6,200	60.5	6,600
35			36.5	2,400	48.5	3,600	55.5	4,100
40					41.5	1,800	50.5	2,200
Min.Bm. Ang./Cap.	0.0	1,700	27.0		36.5		44.5	
Radius (ft)	31.0		38.6		42.9		44.9	

Fixed Boom Lengths Rated Lifting Capacities In Pounds See Operation Note 10.		 Retracted				 0 lb		
Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft	
		360°		360°		360°		360°
10	68.0	57,700	74.0	61,600	77.5	62,400		
12	64.5	38,700	71.5	41,900	75.5	42,600	78.0	41,800
15	59.0	24,200	67.5	26,900	72.5	27,500	76.0	26,800
20	49.0	12,300	61.0	15,000	67.5	15,500	71.5	14,900
25	37.0	6,200	54.0	8,900	62.5	9,500	67.5	9,000
30	18.0	2,500	46.5	5,100	57.0	5,800	63.5	5,300
35			37.5	2,500	51.5	3,200	59.0	2,900
Min.Bm. Ang./Cap.	0.0	1,700	33.0		43.5		54.5	
Radius (ft)	31.0		38.9		41.1		40.2	

Not for crane operations

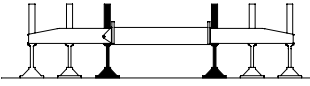
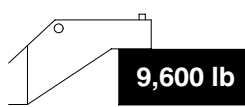
Rated Lifting Capacities In Pounds

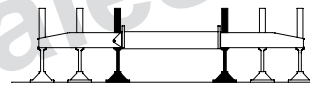
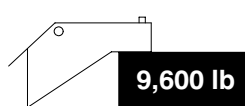


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft	
		360°		360°		360°		360°		360°
10	68.0	82,600	74.0	80,400	77.0	58,000	79.5	55,900		
12	64.5	56,700	71.5	60,900	75.0	53,700	77.5	52,300	79.5	41,800
15	59.0	36,900	67.5	40,400	72.0	42,300	75.0	43,100	77.5	41,800
20	49.0	20,800	61.0	24,300	66.5	25,800	70.5	26,600	73.5	27,000
25	37.0	12,700	53.5	15,900	61.0	17,500	65.5	18,200	69.5	18,600
30	18.0	7,600	45.5	10,900	55.0	12,500	61.0	13,100	65.0	13,500
35			36.5	7,400	48.5	9,000	56.0	9,700	61.0	10,200
40			23.5	5,000	41.5	6,500	50.5	7,200	56.5	7,700
45					33.0	4,600	44.5	5,300	52.0	5,800
50					21.5	3,200	38.0	3,900	47.0	4,300
55							30.5	2,700	41.5	3,100
60							19.5	1,700	35.5	2,200
65									28.5	1,400
Min.Bm. Ang./Cap.	0.0	6,700	0.0	3,700	0.0	2,400	0.0	1,200	21.5	
Radius (ft)	31.0		43.0		53.0		63.0		68.6	

Load Radius (ft)	90.0 ft		100.0 ft		110.0 ft	
		360°		360°		360°
15	79.0	33,500				
20	75.5	27,200	77.5	27,000	79.0	26,900
25	72.0	18,800	74.0	18,700	76.0	18,600
30	68.5	13,700	71.0	13,600	73.0	13,400
35	64.5	10,400	67.5	10,300	70.0	10,200
40	61.0	7,900	64.5	7,800	67.0	7,700
45	57.0	6,000	61.0	6,000	64.0	5,900
50	53.0	4,600	57.5	4,500	61.0	4,400
55	49.0	3,400	54.0	3,300	58.0	3,300
60	44.0	2,400	50.0	2,400	54.5	2,300
65	39.0	1,600	46.0	1,500	51.0	1,500
70	33.5	900	41.5	900		
Min.Bm. Ang./Cap.	27.5		38.5		48.0	
Radius (ft)	74.1		73.5		69.3	

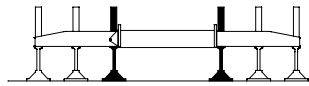
Not for crane operations

Rated Lifting Capacities In Pounds   												
Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
		360°		360°		360°		360°		360°		360°
10	68.0	82,600	73.5	86,300	77.0	88,200	79.0	70,800				
12	64.5	56,700	71.0	59,800	75.0	61,400	77.5	61,900	79.5	62,000		
15	59.0	36,900	67.5	39,500	71.5	40,800	74.5	41,200	77.0	41,300	79.0	41,300
20	49.0	20,800	61.0	23,500	66.5	24,600	70.0	25,000	73.0	25,100	75.0	25,100
25	37.0	12,700	53.5	15,100	61.0	16,400	65.5	16,700	69.0	16,800	71.5	16,800
30	18.0	7,600	45.5	10,100	55.0	11,400	60.5	11,800	65.0	11,900	68.0	11,900
35			36.5	6,700	48.5	7,900	56.0	8,400	61.0	8,600	64.5	8,600
40			23.5	4,300	41.5	5,500	50.5	5,900	56.5	6,100	61.0	6,200
45					33.0	3,600	44.5	4,100	52.0	4,200	57.0	4,300
50					21.5	2,200	38.0	2,600	47.0	2,800	53.0	2,900
55							30.5	1,500	41.5	1,600	48.5	1,700
Min.Bm. Ang./Cap.	0.0	6,700	0.0	3,100	0.0	1,400	20.0		37.0		44.5	
Radius (ft)	31.0		43.0		53.0		59.7		58.9		59.4	

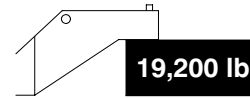
Fixed Boom Lengths Rated Lifting Capacities In Pounds   									
Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft		
		360°		360°		360°		360°	360°
10	68.0	82,600	74.0	86,400	77.5	87,200			
12	64.5	56,700	71.5	59,900	75.5	60,600	78.5	59,800	
15	59.0	36,900	67.5	39,600	72.5	40,100	76.0	39,500	
20	49.0	20,800	61.0	23,600	67.5	24,100	72.0	23,500	
25	37.0	12,700	54.5	15,300	62.5	15,900	67.5	15,300	
30	18.0	7,600	46.5	10,200	57.5	10,900	63.5	10,500	
35			37.5	6,800	51.5	7,500	59.0	7,200	
40			25.5	4,400	45.0	5,100	54.5	4,800	
45					38.0	3,200	49.5	2,900	
50					29.5	1,800	44.0	1,500	
Min.Bm. Ang./Cap.	0.0	6,700	0.0	2,900	19.5		40.5		
Radius (ft)	31.0		43.7		53.7		53.4		

Not for crane operations

Rated Lifting Capacities In Pounds



Retracted



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
		360°		360°		360°		360°		360°		360°
10	68.0	107,400	74.0	80,400								
12	64.5	74,700	71.5	75,000								
15	59.0	49,600	67.5	53,100	72.0	48,400						
20	49.0	29,300	61.0	32,800	66.5	34,400	70.5	35,100	73.5	35,600		
25	37.0	19,100	54.0	22,300	61.0	24,000	66.0	24,700	69.5	25,100	72.5	25,300
30	18.0	12,800	46.0	16,000	55.0	17,600	61.0	18,300	65.5	18,700	68.5	18,900
35			36.5	11,700	48.5	13,200	56.0	14,000	61.0	14,400	65.0	14,600
40			23.5	8,700	41.5	10,200	50.5	10,900	57.0	11,400	61.5	11,600
45					33.0	7,900	45.0	8,600	52.0	9,000	57.5	9,300
50					21.5	6,000	38.5	6,800	47.0	7,200	53.5	7,400
55							30.5	5,300	42.0	5,700	49.0	6,000
60							19.5	4,100	35.5	4,500	44.5	4,800
65									28.5	3,500	39.5	3,800
70									18.5	2,700	33.5	2,900
75											26.5	2,200
80											17.5	1,600
Min.Bm. Ang./Cap.	0.0	11,700	0.0	7,100	0.0	5,100	0.0	3,500	0.0	2,300	0.0	1,300
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft	
		360°		360°		360°
20						
25	74.5	25,100				
30	71.0	18,700	73.5	18,600		
35	68.0	14,500	70.5	14,300	72.5	14,000
40	64.5	11,500	67.5	11,400	69.5	11,100
45	61.5	9,200	64.5	9,100	67.0	8,800
50	58.0	7,400	61.5	7,300	64.0	7,000
55	54.0	5,900	58.0	5,900	61.5	5,600
60	50.5	4,700	55.0	4,700	58.5	4,400
65	46.5	3,700	51.5	3,700	55.5	3,400
70	42.0	2,900	48.0	2,800	52.5	2,500
75	37.0	2,100	44.0	2,100	49.0	1,800
80	32.0	1,500	40.0	1,500	45.5	1,200
85	25.5	1,000	35.5	900		
Min.Bm. Ang./Cap.	23.5		34.5		44.0	
Radius (ft)	86.0		86.0		82.5	

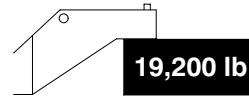
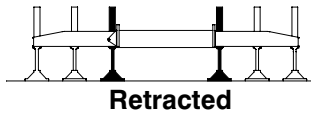


WARNING

Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

**Rated Lifting Capacities
In Pounds**



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
10	68.0	107,400	74.0	103,300				
12	64.5	74,700	71.5	77,700				
15	59.0	49,600	67.5	52,100	72.0	53,500		
20	49.0	29,300	61.0	32,000	66.5	33,100	70.5	33,500
25	37.0	19,100	53.5	21,600	61.0	22,800	65.5	23,200
30	18.0	12,800	45.5	15,200	55.0	16,500	61.0	16,900
35			36.5	11,000	48.5	12,200	56.0	12,700
40			23.5	8,000	41.5	9,200	50.5	9,600
45					33.0	6,800	44.5	7,300
50					21.5	5,000	38.0	5,500
55							30.5	4,000
60							19.5	2,900
Min.Bm. Ang./Cap.	0.0	11,700	0.0	6,500	0.0	4,100	0.0	2,200
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°	$\angle$ °	360°
20	73.0	33,600						
25	69.0	23,300	72.0	23,300	74.0	22,900		
30	65.0	17,000	68.5	17,000	71.0	16,600	74.0	16,100
35	61.0	12,800	64.5	12,800	67.5	12,500	71.5	12,100
40	56.5	9,800	61.0	9,900	64.5	9,500	68.5	9,100
45	52.0	7,500	57.0	7,600	61.0	7,300	66.0	6,800
50	47.0	5,700	53.0	5,800	57.5	5,500	63.0	5,100
55	41.5	4,200	49.0	4,300	54.0	4,000	60.0	3,700
60	35.5	3,000	44.0	3,100	50.0	2,800	57.0	2,500
65	28.5	2,100	39.0	2,100	46.0	1,900	54.0	1,500
70	18.5	1,200	33.5	1,300	42.0	1,000		
Min.Bm. Ang./Cap.	0.0	800	29.5		37.5		51.5	
Radius (ft)	73.0		72.9		74.6		68.7	

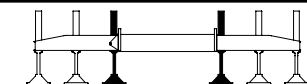


WARNING

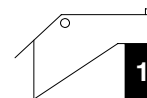
Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



Retracted



19,200 lb



Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft	
	 °	360°	 °	360°	 °	360°	 °	360°
10	68.0	107,400	74.0	111,200				
12	64.5	74,700	71.5	77,800				
15	59.0	49,600	68.0	52,200	73.0	52,800		
20	49.0	29,300	61.5	32,100	68.0	32,500	72.0	32,000
25	37.0	19,100	54.5	21,700	62.5	22,300	68.0	21,800
30	18.0	12,800	46.5	15,300	57.5	16,000	63.5	15,600
35			37.5	11,100	51.5	11,800	59.0	11,500
40			25.5	8,100	45.5	8,800	54.5	8,500
45					38.0	6,500	49.5	6,200
50					29.5	4,700	44.5	4,400
55					16.0	3,200	38.5	3,000
60							31.5	1,800
Min.Bm. Ang./Cap.	0.0	11,700	0.0	6,300	0.0	2,800	23.5	
Radius (ft)	31.0		43.7		56.7		64.5	



WARNING

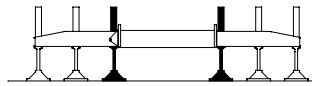
Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

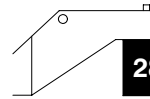
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Not for crane operations

Rated Lifting Capacities In Pounds



Retracted



28,800 lb



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft		80.0 ft		90.0 ft	
		360°		360°		360°		360°		360°		360°
15	59.0	62,300										
20	49.0	37,900										
25	37.0	25,500	54.0	28,700								
30	18.0	17,900	46.0	21,100	55.5	22,700						
35			36.5	16,000	49.0	17,500	56.0	18,300				
40			23.5	12,400	41.5	13,800	51.0	14,600	57.0	15,000		
45					33.0	11,100	45.0	11,800	52.5	12,300	57.5	12,500
50					21.5	8,900	38.5	9,600	47.5	10,100	53.5	10,300
55							30.5	7,900	42.0	8,300	49.0	8,600
60							20.0	6,500	36.0	6,900	44.5	7,100
65									28.5	5,700	39.5	5,900
70									18.5	4,700	34.0	4,900
75											27.0	4,100
80											17.5	3,300
Min.Bm. Ang./Cap.	0.0	16,600	0.0	10,600	0.0	7,800	0.0	5,700	0.0	4,200	0.0	2,900
Radius (ft)	31.0		43.0		53.0		63.0		73.0		83.0	

Load Radius (ft)	100.0 ft		110.0 ft		120.0 ft		130.0 ft	
		360°		360°		360°		360°
50	58.0	10,300						
55	54.5	8,500	58.5	8,500				
60	50.5	7,100	55.0	7,000	58.5	6,700		
65	46.5	5,900	51.5	5,800	55.5	5,600	59.0	5,200
70	42.0	4,900	48.0	4,800	52.5	4,500	56.5	4,200
75	37.5	4,000	44.5	3,900	49.5	3,700	53.5	3,400
80	32.0	3,200	40.0	3,200	46.0	2,900	50.5	2,600
85	25.5	2,600	35.5	2,500	42.5	2,300	47.5	2,000
90	16.5	2,000	30.5	2,000	38.5	1,700	44.0	1,400
95			24.5	1,400	34.0	1,200	40.5	900
100			16.0	1,000				
Min.Bm. Ang./Cap.	0.0	1,700	8.5		32.0		39.5	
Radius (ft)	93.0		101.5		97.5		96.0	

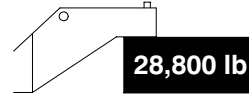
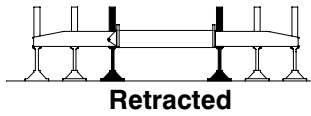


WARNING

Do Not Raise Boom Above 61° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

Rated Lifting Capacities In Pounds



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	°	360°	°	360°	°	360°	°	360°
15	59.0	62,300						
20	49.0	37,900						
25	37.0	25,500	53.5	28,000				
30	18.0	17,900	46.0	20,400	55.0	21,600		
35			36.5	15,300	48.5	16,500	56.0	16,900
40			23.5	11,700	41.5	12,800	50.5	13,200
45					33.0	10,100	45.0	10,500
50					21.5	7,900	38.5	8,400
55							30.5	6,600
60							19.5	5,200
Min.Bm. Ang./Cap.	0.0	16,600	0.0	9,900	0.0	6,800	0.0	4,500
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		115.8 ft	
	°	360°	°	360°	°	360°	°	360°
40	56.5	13,400						
45	52.0	10,700	57.5	10,800				
50	47.0	8,600	53.5	8,700	58.0	8,400		
55	42.0	6,800	49.0	6,900	54.0	6,600	60.5	6,300
60	35.5	5,400	44.5	5,500	50.5	5,200	57.0	4,900
65	28.5	4,200	39.5	4,300	46.5	4,000	54.0	3,700
70	18.5	3,200	33.5	3,300	42.0	3,000	51.0	2,700
75			26.5	2,500	37.0	2,200	47.5	1,800
80			17.5	1,700	32.0	1,400	43.5	1,100
Min.Bm. Ang./Cap.	0.0	2,700	0.0	1,300	26.5		42.5	
Radius (ft)	73.0		83.0		84.2		81.4	

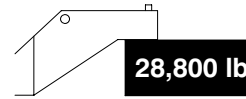
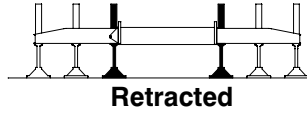


WARNING

Do Not Raise Boom Above 61° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

**Fixed Boom Lengths
Rated Lifting Capacities
In Pounds
See Operation Note 10.**



Load Radius (ft)	38.0 ft		50.7 ft		63.7 ft		76.5 ft	
	 °	360°	 °	360°	 °	360°	 °	360°
15	59.0	62,300						
20	49.0	37,900						
25	37.0	25,500	54.5	28,100				
30	18.0	17,900	46.5	20,500	57.5	21,200		
35			37.5	15,400	51.5	16,100	59.5	15,700
40			25.5	11,800	45.5	12,500	54.5	12,200
45					38.0	9,700	49.5	9,400
50					29.5	7,500	44.5	7,300
55					16.5	5,800	38.5	5,600
60							31.5	4,100
65							22.5	3,000
Min. Bm. Ang./Cap.	0.0	16,600	0.0	9,600	0.0	5,300	0.0	2,000
Radius (ft)	31.0		43.7		56.7		69.5	



WARNING

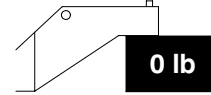
Do Not Raise Boom Above 61° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

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Not for crane operations

**Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Over Front – Between Tire Tracks**



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft	
	$\angle^\circ$	Front	$\angle^\circ$	Front	$\angle^\circ$	Front
10	68.0	62,400				
12	64.5	54,100	71.5	47,000		
15	59.0	43,800	67.5	47,000	72.0	33,300
20	49.0	28,300	61.0	31,600	66.5	33,300
25	37.0	17,400	53.5	20,600	61.0	22,100
30	18.0	11,200	46.0	14,300	55.0	15,800
35			36.5	10,300	48.5	11,800
40			23.5	7,400	41.5	8,900
45					33.0	6,700
50					21.5	5,100
Min.Bm. Ang./Cap.	0.0	10,200	0.0	6,000	0.0	4,200
Radius (ft)	31.0		43.0		53.0	

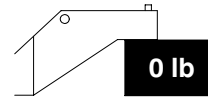
Load Radius (ft)	70.0 ft		80.0 ft	
	$\angle^\circ$	Front	$\angle^\circ$	Front
20	70.5	29,100		
25	66.0	22,800	69.5	23,200
30	61.0	16,400	65.5	16,800
35	56.0	12,400	61.0	12,700
40	50.5	9,500	56.5	9,900
45	45.0	7,400	52.0	7,800
50	38.0	5,700	47.0	6,100
55	30.5	4,400	41.5	4,800
60	19.5	3,400	35.5	3,800
65			28.5	2,900
70			18.5	2,100
Min.Bm. Ang./Cap.	0.0	2,800	0.0	1,800
Radius (ft)	63.0		73.0	

Not for crane operations

**Rated Lifting Capacities In Pounds
On Tires – Pick & Carry
Boom Centered Over Front**



On Tires

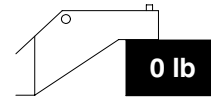
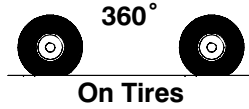


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft		
	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph
10	68.0	62,400	47,600						
12	64.5	54,100	41,200	71.5	47,000	43,300			
15	59.0	43,800	33,800	67.5	47,000	36,000	72.0	33,300	33,300
20	49.0	28,300	25,100	61.0	31,600	27,400	66.5	33,300	28,500
25	37.0	17,400	17,400	53.5	20,600	20,600	61.0	22,100	22,100
30	18.0	11,200	11,200	46.0	14,300	14,300	55.0	15,800	15,800
35				36.5	10,300	10,300	48.5	11,800	11,800
40				23.5	7,400	7,400	41.5	8,900	8,900
45							33.0	6,700	6,700
50							21.5	5,100	5,100
Min.Bm. Ang./Cap.	0.0	10,200	10,200	0.0	6,000	6,000	0.0	4,200	4,200
Radius (ft)	31.0			43.0			53.0		

Load Radius (ft)	70.0 ft			80.0 ft		
	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph
20	70.5	29,100	29,100			
25	66.0	22,800	22,800	69.5	23,200	23,200
30	61.0	16,400	16,400	65.5	16,800	16,800
35	56.0	12,400	12,400	61.0	12,700	12,700
40	50.5	9,500	9,500	56.5	9,900	9,900
45	45.0	7,400	7,400	52.0	7,800	7,800
50	38.0	5,700	5,700	47.0	6,100	6,100
55	30.5	4,400	4,400	41.5	4,800	4,800
60	19.5	3,400	3,400	35.5	3,800	3,800
65				28.5	2,900	2,900
70				18.5	2,100	2,100
Min.Bm. Ang./Cap.	0.0	2,800	2,800	0.0	1,800	1,800
Radius (ft)	63.0			73.0		

Not for crane operations

**Rated Lifting Capacities In Pounds
On Tires – Stationary**



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°	$\angle^\circ$	360°
10	68.0	32,500	71.0	25,900	71.5	18,700
12	64.5	22,700				
15	59.0	14,200	67.5	17,200	71.5	18,700
20	49.0	6,800	60.5	9,700	66.0	11,000
25	37.0	2,700	53.5	5,500	60.5	6,900
30			45.5	2,900	55.0	4,200
35					48.5	2,400
Min.Bm. Ang./Cap.	32.0		39.0		42.5	
Radius (ft)	26.2		33.6		39.1	

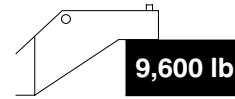
Load Radius (ft)	70.0 ft		80.0 ft	
	$\angle^\circ$	360°	$\angle^\circ$	360°
20	70.0	11,600	69.0	7,800
25	65.5	7,500		
30	60.5	4,900	65.0	5,200
35	55.5	3,000	60.5	3,400
40	50.5	1,700	56.5	2,100
Min.Bm. Ang./Cap.	47.5		52.0	
Radius (ft)	42.4		44.5	

Not for crane operations

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**Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Over Front – Between Tire Tracks**

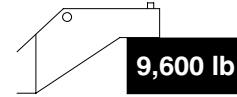


Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	$\angle^\circ$	Front	$\angle^\circ$	Front	$\angle^\circ$	Front	$\angle^\circ$	Front
10	68.0	67,500						
12	64.5	60,000	71.5	45,700				
15	59.0	51,300	67.5	45,700				
20	49.0	38,200	61.0	41,200	67.0	30,300		
25	37.0	25,200	54.0	28,300	61.0	29,800	66.0	30,500
30	18.0	17,300	46.0	20,400	55.5	21,900	61.5	22,500
35			36.5	15,300	49.0	16,700	56.0	17,300
40			23.5	11,700	41.5	13,000	51.0	13,700
45					33.0	10,400	45.0	11,100
50					21.5	8,300	38.5	9,000
55							30.5	7,300
60							20.0	6,000
Min.Bm. Ang./Cap.	0.0	16,000	0.0	9,900	0.0	7,300	0.0	5,300
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft	
	$\angle^\circ$	Front	$\angle^\circ$	Front	$\angle^\circ$	Front
30	65.5	22,900				
35	61.5	17,700	65.5	17,800	68.0	14,100
40	57.0	14,000	61.5	14,200	65.0	14,100
45	52.5	11,500	57.5	11,600	61.5	11,500
50	47.5	9,400	53.5	9,600	58.0	9,500
55	42.0	7,700	49.0	8,000	54.5	7,800
60	36.0	6,400	44.5	6,600	50.5	6,500
65	28.5	5,300	39.5	5,500	46.5	5,400
70	18.5	4,400	34.0	4,600	42.0	4,500
75			27.0	3,800	37.5	3,700
80			17.5	3,100	32.0	3,000
85					25.5	2,400
90					16.5	1,900
95						
Min.Bm. Ang./Cap.	0.0	3,900	0.0	2,700	0.0	1,700
Radius (ft)	73.0		83.0		93.0	

Not for crane operations

**Rated Lifting Capacities In Pounds
On Tires – Pick & Carry
Boom Centered Over Front**

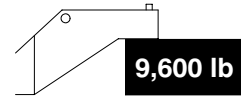
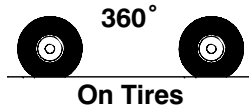


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph
10	68.0	67,500	50,300									
12	64.5	60,000	43,700	71.5	45,700	45,700						
15	59.0	50,100	36,000	67.5	45,700	38,200						
20	49.0	38,200	26,800	61.0	40,600	29,100	67.0	30,300	30,300			
25	37.0	25,200	20,500	54.0	28,300	22,900	61.0	29,800	24,200	66.0	30,500	24,700
30	18.0	17,300	15,800	46.0	20,400	18,400	55.5	21,900	19,600	61.5	22,500	20,200
35				36.5	15,300	14,900	49.0	16,700	16,100	56.0	17,300	16,700
40				23.5	11,700	11,700	41.5	13,000	13,000	51.0	13,700	13,700
45							33.0	10,400	10,400	45.0	11,100	11,100
50							21.5	8,300	8,300	38.5	9,000	9,000
55										30.5	7,300	7,300
60										20.0	6,000	6,000
Min.Bm. Ang./Cap.	0.0	16,000	14,900	0.0	9,900	9,900	0.0	7,300	7,300	0.0	5,300	5,300
Radius (ft)	31.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft		
	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph	$\angle$ °	Creep	2.5 mph
30	65.5	22,900	20,600						
35	61.5	17,700	17,100	65.5	17,800	17,300	68.0	14,100	14,100
40	57.0	14,000	14,000	61.5	14,200	14,200	65.0	14,100	14,100
45	52.5	11,500	11,500	57.5	11,600	11,600	61.5	11,500	11,500
50	47.5	9,400	9,400	53.5	9,600	9,600	58.0	9,500	9,500
55	42.0	7,700	7,700	49.0	8,000	8,000	54.5	7,800	7,800
60	36.0	6,400	6,400	44.5	6,600	6,600	50.5	6,500	6,500
65	28.5	5,300	5,300	39.5	5,500	5,500	46.5	5,400	5,400
70	18.5	4,400	4,400	34.0	4,600	4,600	42.0	4,500	4,500
75				27.0	3,800	3,800	37.5	3,700	3,700
80				17.5	3,100	3,100	32.0	3,000	3,000
85							25.5	2,400	2,400
90							16.5	1,900	1,900
95									
Min.Bm. Ang./Cap.	0.0	3,900	3,900	0.0	2,700	2,700	0.0	1,700	1,700
Radius (ft)	73.0			83.0			93.0		

Not for crane operations

**Rated Lifting Capacities In Pounds
On Tires – Stationary**



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
		360°		360°		360°		360°
10	68.0	49,800	71.0	39,100	66.5	17,800	65.5	12,700
12	64.5	35,900				12,100		
15	59.0	24,000	67.5	26,900	61.0	8,500	61.0	9,100
20	49.0	13,500	61.0	16,500	48.5	5,900	56.0	6,600
25	37.0	8,000	53.5	10,700	41.5	4,100	50.5	4,700
30	18.0	4,400	45.5	7,100	33.0	2,700	44.5	3,400
35			36.5	4,600	21.5	1,700	38.0	2,300
40			23.5	2,800			30.5	1,400
45								
50								
55								
Min.Bm. Ang./Cap.	0.0	3,700	0.0	1,900	0.0	1,100	29.0	
Radius (ft)	31.0		43.0		53.0		58.1	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft	
		360°		360°		360°
30	65.0	9,500	64.5	7,200	67.5	7,000
35	61.0	7,000				
40	56.5	5,100	61.0	5,300	64.0	5,300
45	52.0	3,700	57.0	3,900	61.0	3,900
50	47.0	2,600	53.0	2,800	57.5	2,800
55	41.5	1,800	48.5	2,000	54.0	1,900
60	35.5	1,000	44.0	1,200	50.0	1,200
Min.Bm. Ang./ Cap.	33.5		41.0		48.0	
Radius (ft)	61.3		62.8		62.6	



WARNING

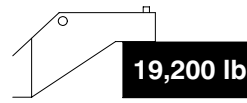
Do Not Raise Boom Above 75° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

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**Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Over Front – Between Tire Tracks**



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	 °	Front	 °	Front	 °	Front	 °	Front
15	59.0	54,700	54.0	36,200				
20	49.5	43,300						
25	37.0	33,000						
30	18.0	23,400	46.0	26,500	55.5	27,900	56.5	22,300
35			36.5	20,300	49.0	21,700		
40			23.5	15,900	42.0	17,300		
45					33.5	14,000	45.0	14,700
50					21.5	11,600	38.5	12,200
55							30.5	10,200
60							20.0	8,600
Min.Bm. Ang./Cap.	0.0	21,800	0.0	13,800	0.0	10,300	0.0	7,800
Radius (ft)	31.0		43.0		53.0		63.0	

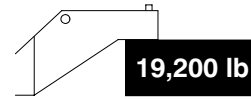
Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		110.0 ft	
	 °	Front	 °	Front	 °	Front	 °	Front
40	57.0	18,300	58.0	15,200				
45	52.5	15,100						
50	47.5	12,600	54.0	12,700	58.5	12,700	58.5	10,700
55	42.0	10,700	49.5	10,900	54.5	10,800		
60	36.0	9,000	45.0	9,200	51.0	9,200		
65	28.5	7,700	40.0	7,900	47.0	7,800	52.0	7,800
70	18.5	6,600	34.0	6,800	42.5	6,700	48.5	6,700
75			27.0	5,800	37.5	5,800	44.5	5,700
80			17.5	5,000	32.0	4,900	40.5	4,900
85					25.5	4,200	36.0	4,200
90					16.5	3,600	31.0	3,500
95							24.5	3,000
100							16.0	2,500
Min.Bm. Ang./Cap.	0.0	6,000	0.0	4,600	0.0	3,300	0.0	2,200
Radius (ft)	73.0		83.0		93.0		103.0	

Not for crane operations

**Rated Lifting Capacities In Pounds
On Tires – Pick & Carry
Boom Centered Over Front**



On Tires

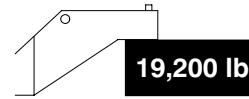
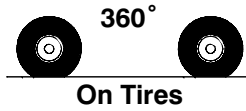


Load Radius (ft)	38.0 ft			50.0 ft			60.0 ft			70.0 ft		
	$\angle^\circ$	Creep	2.5 mph	$\angle^\circ$	Creep	2.5 mph	$\angle^\circ$	Creep	2.5 mph	$\angle^\circ$	Creep	2.5 mph
15	59.0	52,200	38,100									
20	49.0	40,100	28,600									
25	37.0	31,700	22,000	54.0	34,100	24,400						
30	18.0	23,400	17,100	46.0	26,500	19,600	55.5	27,900	20,900			
35				36.5	20,300	16,000	49.0	21,700	17,300	56.5	22,300	17,900
40				23.5	15,900	13,100	42.0	17,300	14,400	51.0	17,900	15,000
45							33.5	14,000	12,100	45.0	14,700	12,800
50							21.5	11,600	10,200	38.5	12,200	10,900
55										30.5	10,200	9,300
60										20.0	8,600	7,900
Min.Bm. Ang./Cap.	0.0	21,800	16,200	0.0	13,800	11,600	0.0	10,300	9,200	0.0	7,800	7,200
Radius (ft)	31.0			43.0			53.0			63.0		

Load Radius (ft)	80.0 ft			90.0 ft			100.0 ft			110.0 ft		
	$\angle^\circ$	Creep	2.5 mph	$\angle^\circ$	Creep	2.5 mph	$\angle^\circ$	Creep	2.5 mph	$\angle^\circ$	Creep	2.5 mph
40	57.0	18,300	15,400									
45	52.5	15,100	13,100	58.0	15,200	13,300						
50	47.5	12,600	11,300	54.0	12,700	11,500	58.5	12,700	11,400			
55	42.0	10,700	9,700	49.5	10,900	9,900	54.5	10,800	9,900	58.5	10,700	9,800
60	36.0	9,000	8,300	45.0	9,200	8,600	51.0	9,200	8,500	55.5	9,100	8,400
65	28.5	7,700	7,200	40.0	7,900	7,400	47.0	7,800	7,300	52.0	7,800	7,300
70	18.5	6,600	6,200	34.0	6,800	6,400	42.5	6,700	6,300	48.5	6,700	6,300
75				27.0	5,800	5,500	37.5	5,800	5,400	44.5	5,700	5,400
80				17.5	5,000	4,700	32.0	4,900	4,600	40.5	4,900	4,600
85							25.5	4,200	3,900	36.0	4,200	3,900
90							16.5	3,600	3,300	31.0	3,500	3,300
95										24.5	3,000	2,700
100										16.0	2,500	2,200
Min.Bm. Ang./Cap.	0.0	6,000	5,600	0.0	4,600	4,300	0.0	3,300	3,000	0.0	2,200	1,900
Radius (ft)	73.0			83.0			93.0			103.0		

Not for crane operations

**Rated Lifting Capacities In Pounds
On Tires – Stationary
Boom Centered Over Front**



Load Radius (ft)	38.0 ft		50.0 ft		60.0 ft		70.0 ft	
	 °	360°	 °	360°	 °	360°	 °	360°
15	59.0	33,700						
20	49.0	20,400						
25	37.0	13,200	53.5	15,900				
30	18.0	8,700	45.5	11,400	55.0	12,700		
35			36.5	8,200	48.5	9,500	56.0	10,200
40			23.5	5,900	41.5	7,200	50.5	7,800
45					33.0	5,500	44.5	6,100
50					21.5	4,100	38.0	4,700
55							30.5	3,600
60							19.5	2,700
Min.Bm. Ang./Cap.	0.0	7,800	0.0	4,800	0.0	3,400	0.0	2,200
Radius (ft)	31.0		43.0		53.0		63.0	

Load Radius (ft)	80.0 ft		90.0 ft		100.0 ft		110.0 ft	
	 °	360°	 °	360°	 °	360°	 °	360°
40	56.5	8,200						
45	52.0	6,500	57.0	6,700				
50	47.0	5,100	53.0	5,300	57.5	5,200		
55	41.5	4,000	49.0	4,100	54.0	4,100	58.0	4,100
60	35.5	3,000	44.0	3,200	50.0	3,200	54.5	3,100
65	28.5	2,300	39.0	2,500	46.0	2,400	51.5	2,400
70	18.5	1,600	33.5	1,800	42.0	1,800	47.5	1,700
75			26.5	1,200	37.0	1,200	44.0	1,100
Min.Bm. Ang./Cap.	0.0	1,300	19.5		32.0		40.5	
Radius (ft)	73.0		78.8		79.7		79.1	



WARNING

Do Not Raise Boom Above 60° Boom Angle. Loss Of Backward Stability Will Occur Causing a Tipping Condition.

Not for crane operations

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