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Lifting Capacities

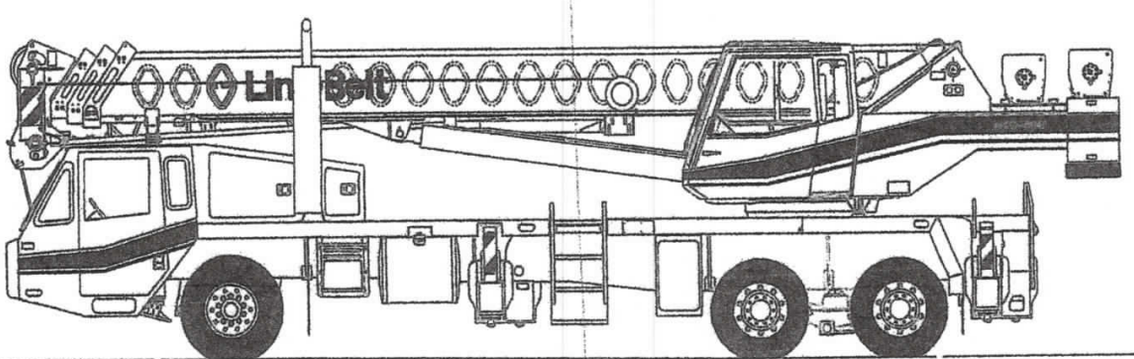
Telescopic Hydraulic Truck Crane

HTC–8640 *Heavy Lift* 40–ton *(36.3 metric ton)*

Boom and fly capacities for this machine are listed by the following sections:

Fully Extended Outriggers

- Working Range Diagram (9,700 lbs. Counterweight)
- 33 to 57 ft. main boom capacities, A–max mode
- 33 to 105 ft. main boom capacities, Basic Mode "B"
- 28.5 ft. offset fly capacities, Basic Mode "B"
- 28.5 to 51 ft. two–piece offset fly capacities, Basic mode "B"



CAUTION: This material is supplied for reference use only. Operator must refer to in–cab Crane Rating Manual to determine allowable machine lifting capacities and operating procedures.

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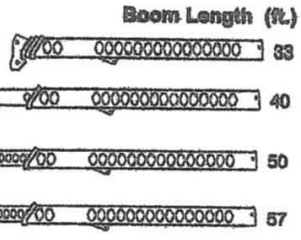
Link-Belt CONSTRUCTION EQUIPMENT

BOOM EXTENSION

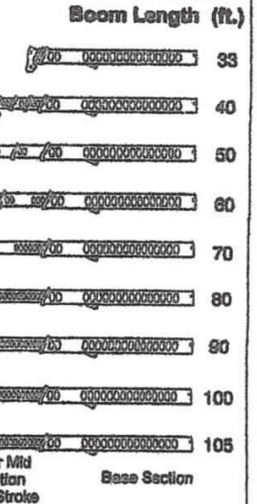
Boom Mode "A"
Only inner mid section telescopes

Boom Length (ft.)



Boom Mode "B"
Inner mid, outer mid and tip sections telescope simultaneously.

Boom Length (ft.)



TIRE INFLATION

Tire Size	Operation	Tire Pressure (psi)
12 R 22.5	Creep 2.5 mph	120 110

PONTOON LOADINGS

Maximum Pontoon Load:	Maximum Pontoon Ground Bearing Pressure:
61,750 lbs.	137 psi

CAPACITY DEDUCTIONS FOR AUXILIARY LOAD HANDLING EQUIPMENT

Load Handling Equipment:	(lbs.)
Auxiliary Head Attached	100
25-ton quick reeve 3 sheave hook block (see hook block for actual weight)	670
40-ton quick reeve 4 sheave hook block (see hook block for actual weight)	780
8.5-ton hook ball (see hook ball for actual weight)	360
Lifting From Main Boom With:	**(lbs.)**
28.5 ft. or 51 ft. fly stowed on base (see operation note 4)	0
28.5 ft. offset fly erected but not used	2600
51 ft. offset fly erected but not used	4800
Lifting From 28.5 ft. Offset Fly With:	
22.5 ft. fly tip erected but not used	PROHIBITED
22.5 ft. fly tip stowed on 28.5 ft. offset fly	PROHIBITED

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

WINCH PERFORMANCE

Wire Rope Layer	Winch Line Pulls — Two Speed Winch: Low Speed Available Lbs.*	Winch Line Pulls — Two Speed Winch: High Speed Available lbs.	Drum Rope Capacity (ft.): Layer	Drum Rope Capacity (ft.): Total
1	13,010	6,418	77	77
2	11,768	5,805	85	162
3	10,742	5,299	93	255
4	9,881	4,874	101	356
5	9,148	4,513	109	465

*Maximum lifting capacity: Type RB Rope=9,080, Type ZB Rope=11,080

WIRE ROPE CAPACITY

Maximum Lifting Capacities Based On Wire Rope Strength

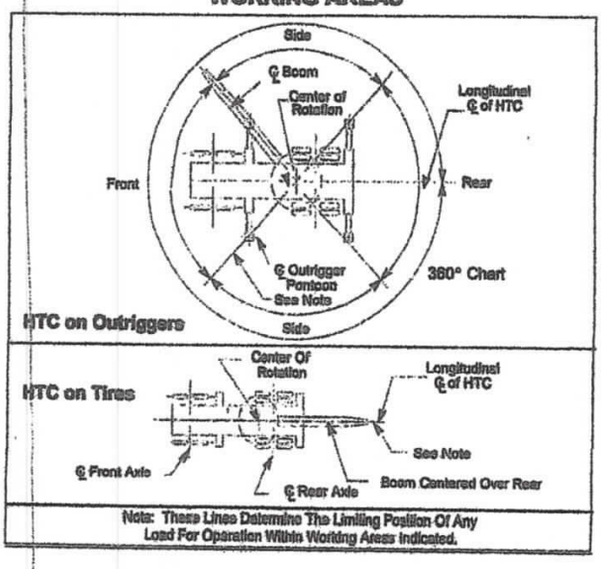
Parts of Line	5/8" Type RB	5/8" Type ZB	Notes
1	9,080	11,080	
2	18,160	22,160	Capacities shown are in pounds and working loads must not exceed the ratings on the capacity charts in the Crane Rating Manual.
3	27,240	33,240	
4	36,320	44,320	
5	45,400	55,400	Study Operator's Manual for wire rope inspection procedures and single part of line applications.
6	54,480	66,480	
7	63,560	77,560	
8	72,640	88,640	
9	81,720	—	

LBCE	DESCRIPTION
TYPE RB	18 X 19 Rotation Resistant – Compact Strand, High Strength Preformed, Right Regular Lay
TYPE ZB	36 X 7 Rotation Resistant – Extra Improved Plow Steel – Right Regular Lay

HYDRAULIC CIRCUIT PRESSURE SETTINGS

Function	Pressure (PSI)
Front And Rear Winch	3100
Outriggers	3000
Boom Hoist	3350
Telescope	3000
Swing	1500
Steering	2000
Bumper Outrigger	650
Pilot Control	500

WORKING AREAS



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

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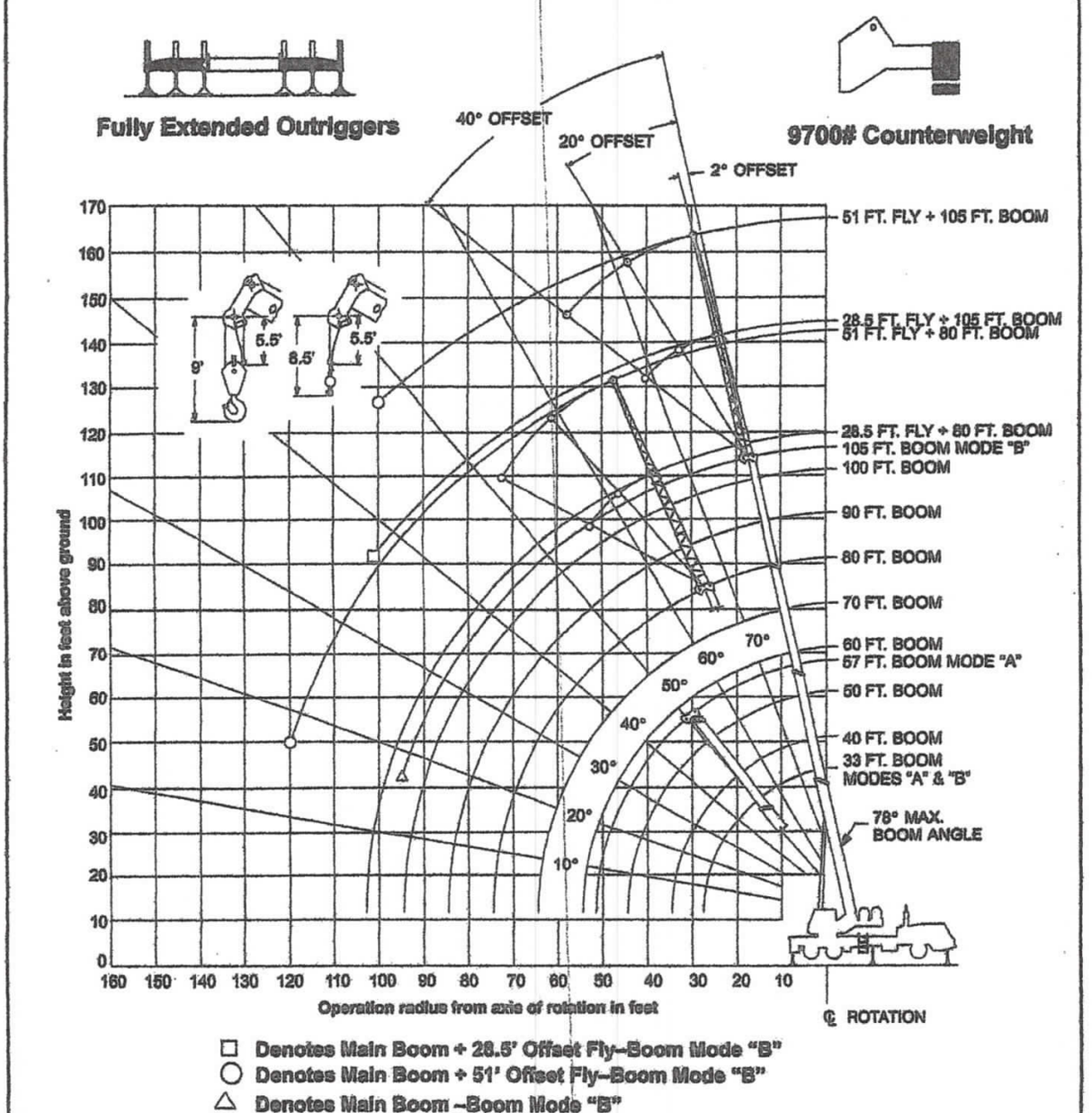
CONSTRUCTION EQUIPMENT

WORKING RANGE DIAGRAM



□ Denotes Main Boom + 28.5' Offset Fly–Boom Mode "B"
○ Denotes Main Boom + 51' Offset Fly–Boom Mode "B"
△ Denotes Main Boom –Boom Mode "B"

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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Link-Belt CONSTRUCTION EQUIPMENT

Rated Lifting Capacities In Pounds
Fully Extended Outriggers
See Set Up Note 2

9,700 lbs.

FULL EXTENSION
MAIN BOOM "A"

Load Radius (Ft.)	33 Ft. ∠°	33 Ft. 360°	33 Ft. Over Rear	40 Ft. ∠°	40 Ft. 360°	40 Ft. Over Rear
9	68.0	80,000	80,000			
10	68.0	72,300	72,300	70.5	72,300	72,300
12	62.0	65,600	65,600	67.5	65,200	65,200
15	55.5	55,600	55,600	62.5	55,300	55,300
20	43.5	42,200	42,200	54.0	41,900	41,900
25	28.5	29,900	29,900	44.0	29,700	29,700
30				31.0	21,500	21,500
Min. Bm. Ang./Cap	0 (27.5)	18,400	18,400	0 (34.5)	14,100	14,100

Load Radius (Ft.)	50 Ft. ∠°	50 Ft. 360°	50 Ft. Over Rear	57 Ft. ∠°	57 Ft. 360°	57 Ft. Over Rear
10	75.0	67,600	67,600	77.0	43,800	43,800
12	73.0	61,200	61,200	75.0	43,600	43,600
15	69.0	53,400	53,400	72.0	42,100	42,100
20	62.5	41,600	41,600	66.5	34,300	34,300
25	55.5	29,300	29,300	61.0	28,700	28,700
30	48.0	21,300	21,300	54.5	21,100	21,100
35	39.0	16,100	16,100	47.5	16,000	16,000
40	27.5	12,400	12,400	40.0	12,300	12,300
45				30.5	9,600	9,600
50				16.0	7,600	7,600
Min. Bm. Ang./Cap	0 (44.5)	9,300	9,300	0 (51.5)	6,900	6,900

Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling Equipment". ∠° Loaded Boom Angle In Degrees. ( ) Reference Radius For Min. Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

Rated Lifting Capacities In Pounds
Fully Extended Outriggers
See Set Up Note 2

9,700 lbs.

FULL EXTENSION
MAIN BOOM "B"

Load Radius (Ft.)	33 Ft. ∠°	33 Ft. 360°	33 Ft. Over Rear	40 Ft. ∠°	40 Ft. 360°	40 Ft. Over Rear	50 Ft. ∠°	50 Ft. 360°	50 Ft. Over Rear
9	68.0	80,000	80,000						
10	68.0	72,300	72,300	70.5	35,000	35,000	74.5	35,000	35,000
12	62.0	65,600	65,600	67.5	35,000	35,000	72.5	35,000	35,000
15	55.5	55,600	55,600	62.5	35,000	35,000	68.5	35,000	35,000
20	43.5	42,200	42,200	54.0	35,000	35,000	62.5	35,000	35,000
25	28.5	29,900	29,900	43.5	30,700	30,700	55.5	31,100	31,100
30				31.0	22,400	22,400	47.5	23,000	23,000
35							39.0	17,700	17,700
40							27.5	14,000	14,000
Min. Bm. Ang./Cap	0 (27.5)	18,400	18,400	0 (34.5)	13,600	13,600	0 (44.5)	9,200	9,200

Load Radius (Ft.)	60 Ft. ∠°	60 Ft. 360°	60 Ft. Over Rear	70 Ft. ∠°	70 Ft. 360°	70 Ft. Over Rear	80 Ft. ∠°	80 Ft. 360°	80 Ft. Over Rear
10	77.5	35,000	35,000						
12	75.5	35,000	35,000						
15	72.5	35,000	35,000	75.5	35,000	35,000			
20	67.5	35,000	35,000	71.5	35,000	35,000	74.5	30,700	30,700
25	62.5	31,400	31,400	67.0	31,500	31,500	71.0	28,400	28,400
30	56.5	23,200	23,200	62.5	23,400	23,400	67.0	22,600	22,600
35	50.5	18,000	18,000	57.5	18,100	18,100	62.5	18,200	18,200
40	43.5	14,300	14,300	52.0	14,500	14,500	58.5	14,600	14,600
45	35.5	11,600	11,600	46.5	11,600	11,600	53.5	11,900	11,900
50	25.0	9,500	9,500	40.0	9,700	9,700	49.0	9,900	9,900
55				33.0	8,100	8,100	43.5	8,200	8,200
60				23.0	6,700	6,700	37.5	6,800	6,900
65							31.0	5,700	5,800
70							22.0	4,700	4,800
Min. Bm. Ang./Cap	0 (54.5)	6,600	6,600	0 (64.5)	4,600	4,600	0 (74.5)	3,300	3,300

Load Radius (Ft.)	90 Ft. ∠°	90 Ft. 360°	90 Ft. Over Rear	100 Ft. ∠°	100 Ft. 360°	100 Ft. Over Rear	105 Ft. ∠°	105 Ft. 360°	105 Ft. Over Rear
20	77.0	27,400	27,400						
25	73.5	23,500	23,500	76.0	21,000	21,000	76.5	17,600	17,600
30	70.0	20,600	20,600	73.0	18,700	18,700	74.0	17,600	17,600
35	66.5	18,100	18,100	70.0	16,600	16,600	71.0	15,700	15,700
40	63.0	14,700	14,700	66.5	14,600	14,600	68.0	13,800	13,800
45	59.0	12,000	12,000	63.0	12,000	12,000	65.0	12,100	12,100
50	55.0	9,900	9,900	59.5	10,000	10,000	61.5	10,000	10,000
55	50.5	8,300	8,400	56.0	8,400	8,400	58.5	8,400	8,400
60	46.0	6,900	7,000	52.5	7,000	7,100	55.0	7,000	7,100
65	41.5	5,800	5,900	48.5	5,800	6,000	51.0	5,900	6,000
70	35.5	4,800	4,900	44.0	4,800	5,000	47.0	4,900	5,100
75	29.5	4,000	4,100	39.5	4,100	4,200	43.0	4,100	4,300
80	21.0	3,300	3,400	34.0	3,400	3,500	38.5	3,400	3,600
85				28.0	2,800	2,900	33.5	2,800	3,000
90				20.0	2,200	2,400	27.5	2,200	2,400
95							19.5	1,800	2,000
Min. Bm. Ang./Cap	0 (94.5)	2,300	2,300	0 (94.5)	1,500	1,500	17.0 (98.3)		

Note: Refer To Page 5 For "Capacity Deductions For Auxiliary Load Handling Equipment". ∠° Loaded Boom Angle In Degrees. ( ) Reference Radius For Min. Boom Angle Capacities (Shown In Parenthesis) Are In Feet.

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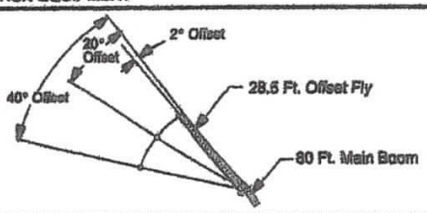
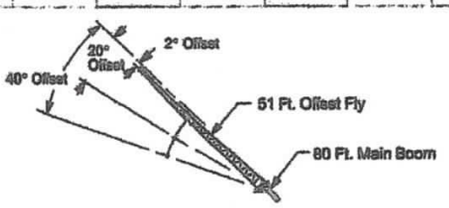


Rated Lifting Capacities In Pounds
Fully Extended Outriggers
See Set Up Note 2

FULL EXTENSION

9,700 lbs.

Load Radius (Ft.)	2° Offset ∠°	2° Offset 360°	20° Offset ∠°	20° Offset 360°	40° Offset ∠°	40° Offset 360°
25	77.0	15,200				
30	74.5	13,900				
35	72.0	11,800	76.0	8,700		
40	69.0	11,000	73.0	8,100	77.0	6,100
45	66.0	10,200	70.0	7,600	74.0	6,600
50	63.0	9,600	67.0	7,100	71.0	6,600
55	60.0	8,900	64.0	6,700	67.5	5,400
60	57.0	7,900	61.0	6,400	64.0	6,300
65	53.5	6,700	57.5	6,000	60.5	5,100
70	49.5	5,800	54.0	5,800	57.0	5,000
75	45.5	4,900	50.0	5,300	52.5	4,900
80	41.5	4,200	45.5	4,600	48.0	4,700
85	37.0	3,600	41.0	3,800	42.5	3,900
90	31.5	3,000	36.5	3,200		
95	25.5	2,500	28.5	2,700		
100	18.5	2,100	18.5	2,200		
Min. Bm. Ang./Cap.	0	1,300	0	1,400	0	1,600



Rated Lifting Capacities In Pounds
Fully Extended Outriggers
See Set Up Note 2

FULL EXTENSION

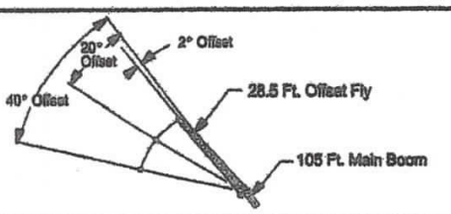
9,700 lbs.

Load Radius (Ft.)	2° Offset ∠°	2° Offset 360°	20° Offset ∠°	20° Offset 360°	40° Offset ∠°	40° Offset 360°
35	76.0	7,400				
40	74.0	6,700				
45	71.5	6,100	76.0°	4,200		
50	69.5	5,600	76.0	3,900		
55	67.0	5,100	73.5	3,700		
60	64.5	4,700	71.0	3,500	77.0	2,700
65	62.0	4,300	69.5	3,300	74.5	2,600
70	59.5	4,000	68.0	3,100	72.0	2,500
75	57.0	3,600	63.0	2,900	69.0	2,400
80	54.0	3,500	60.5	2,800	66.0	2,300
85	51.0	3,200	57.5	2,700	62.5	2,300
90	48.0	3,100	54.5	2,600	59.5	2,200
95	45.0	2,900	51.0	2,600	56.5	2,200
100	41.5	2,700	47.5	2,400	51.5	2,200
105	37.5	2,300	43.5	2,300	47.0	2,100
110	33.0	2,000	39.0	2,200	41.5	2,100
115	28.0	1,600	33.5	1,800		
120	22.0	1,400	26.5	1,600		

⚠ WARNING

Do Not Lower 51 Ft. Offset Fly In Working Position Below 17° Main Boom Angle Unless Main Boom Length Is 78 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 6 For "Capacity Deductions For Auxiliary Load Handling Equipment". ∠° Loaded Boom Angle In Degrees. * This Capacity Based On Maximum Obtainable Boom Angle.



Rated Lifting Capacities In Pounds
Fully Extended Outriggers
See Set Up Note 2

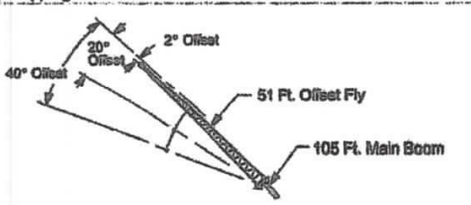
FULL EXTENSION

9,700 lbs.

Load Radius (Ft.)	2° Offset ∠°	2° Offset 360°	20° Offset ∠°	20° Offset 360°	40° Offset ∠°	40° Offset 360°
35	75.5	9,000				
40	74.5	9,000	76.0°	7,900		
45	72.5	8,800	76.0	7,600		
50	70.0	7,900	73.5	7,200	76.5	5,700
55	67.5	7,200	71.0	6,600	74.0	6,600
60	65.5	6,600	69.0	6,100	71.5	5,400
65	63.0	6,100	66.5	5,700	69.5	5,200
70	60.5	5,600	64.0	5,300	66.5	5,000
75	57.5	4,700	61.0	4,900	64.0	4,700
80	54.5	4,000	58.5	4,400	61.0	4,400
85	51.5	3,300	55.0	3,700	58.0	4,000
90	48.5	2,800	52.0	3,100	54.5	3,300
95	45.0	2,300	48.5	2,600	51.0	2,600
100	41.5	1,900	45.0	2,100	47.0	2,300
105	38.0	1,600	41.0	1,700	42.5	1,600

⚠ WARNING

Do Not Lower 28.5 Ft. Offset Fly In Working Position Below 37° Main Boom Angle Unless Main Boom Length Is 69 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.



Rated Lifting Capacities In Pounds
Fully Extended Outriggers
See Set Up Note 2

FULL EXTENSION

9,700 lbs.

Load Radius (Ft.)	2° Offset ∠°	2° Offset 360°	20° Offset ∠°	20° Offset 360°	40° Offset ∠°	40° Offset 360°
40	77.5	5,800				
45	75.5	5,700				
50	74.0	5,400				
55	72.0	5,100	77.5	3,700		
60	70.5	4,800	75.5	3,500		
65	68.5	4,500	73.5	3,400		
70	66.5	4,200	71.5	3,200	76.5	2,600
75	64.5	3,900	69.5	3,100	74.5	2,400
80	62.0	3,600	67.5	2,900	72.5	2,400
85	60.0	3,300	65.5	2,800	70.5	2,300
90	58.0	3,000	63.5	2,700	68.0	2,300
95	55.5	2,800	61.0	2,600	65.5	2,200
100	53.0	2,300	58.5	2,500	63.0	2,200
105	50.0	1,900	56.0	2,300	60.5	2,200
110			53.5	2,000	57.5	2,100
115			50.5	1,600	54.5	1,900
120					51.0	1,600

⚠ WARNING

Do Not Lower 51 Ft. Offset Fly In Working Position Below 47.5° Main Boom Angle Unless Main Boom Length Is 78 Ft. Or Less, Since Loss Of Stability Will Occur Causing A Tipping Condition.

Note: Refer To Page 6 For "Capacity Deductions For Auxiliary Load Handling Equipment". ∠° Loaded Boom Angle In Degrees. *This Capacity Based On Maximum Obtainable Boom Angle.

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