



Liftcrane Boom Capacities

Boom No. 78T With Long Reach Top
27,400 Lb. to 44,400 Lb. Crane Counterweight
25,000 Lb. Front Bumper Counterweight
Rating Straight Over Rear On Rubber - 1/4 MPH Travel

Meets
ANSI B30.5
Requirements



LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface. Refer to boom rigging **No. 192093**, Wire Rope Specification chart **No. 8104-A** and Operating Range Diagram chart **No. 7974-D**. Crane operator judgment must be used to allow for dynamic load effects of hoisting or lowering, travel, wind conditions, ground conditions, condition and inflation of tires (116 PSI minimum), as well as adverse operating conditions and physical machine depreciation.

Loads lifted may increase radius due to tire deflection. This increase must be compensated for by raising boom. Refer to operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel (1/4 MPH) on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8102-A**, Maximum

Allowable Traveling Weight chart **No. 7972-A** and reference Weight Distribution chart **No. 7975-A**.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with Manitowoc 10 x 6 carrier, 277 in. wheel base, 117 in. front axle track, 100 in. rear axle track, 14.00 x 24 tires, 96 in. front outriggers, 70 in. rear outriggers, two 12 in. boom hoist cylinders, 26 Ft. mast, two boom support straps, crane counterweight as specified and 25,000 Lb. front bumper counterweight.

Note: Swing over side on rubber not allowed with 27,400 Lb. thru 44,400 Lb. crane counterweight.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
30 Ft.	3,900 Lbs.
40 Ft.	4,700 Lbs.
50 Ft.	5,600 Lbs.
60 Ft.	6,600 Lbs.
70 Ft.	7,600 Lbs.
80 Ft.	8,700 Lbs.

Auxiliary Drum Deduct
Deduct 1,700 Lbs. from capacities when boom butt is equipped with auxiliary drum.

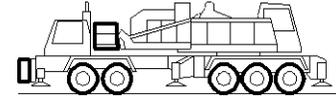


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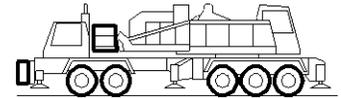
Maximum Boom and Jib Lengths Lifted Unassisted On Outriggers			
Over Rear of Outriggers		Over Side of Fully Extended Outriggers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
95,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.			
(a) 298 Ft.	—	248 Ft.	—
(a) 288 Ft.	—	238 Ft.	—
278 Ft.	—	228 Ft.	30 Ft.
(b) 268 Ft.	30 Ft.	218 Ft.	60 Ft.
258 Ft.	30 Ft.	208 Ft.	80 Ft.
248 Ft.	60 Ft.		
238 Ft.	80 Ft.		
Load block, hook and weight ball on ground at start. (a) Auxiliary drum cannot be used. (b) Auxiliary drum cannot be used and one load line only run up boom to jib (boom point operation not allowed).			

Maximum Boom Lengths Lifted Unassisted On Outriggers	
Over Rear of Outriggers	Over Side of Fully Extended Outriggers
Boom Length	Boom Length
78,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
278 Ft.	238 Ft.
61,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
258 Ft.	218 Ft.
44,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
248 Ft.	198 Ft.
27,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
238 Ft.	178 Ft.
10,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
208 Ft.	158 Ft.
0 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
198 Ft.	148 Ft.
Load block, hook and weight ball on ground at start.	

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Maximum Boom Lengths Lifted Unassisted On Rubber	
Over Rear	Over Side
Boom Length	Boom Length
95,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
Not Allowed	
78,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
Not Allowed	
61,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
Not Allowed	
44,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
158 Ft.	Not Allowed
27,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
148 Ft.	Not Allowed
10,400 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
Not Allowed	
0 Lb. Crane Counterweight + 25,000 Lb. Front Bumper Cwt.	
Not Allowed	
Load block, hook and weight ball on ground at start.	

Refer to chart **No. 8083-A** or **-B** (0 or 25,000 Lb. front bumper counterweight [FBC]) for fully extended outrigger boom capacities and chart **No. 8098-A** or **-B** (0 or 25,000 Lb. FBC) for straight over rear on rubber boom capacities.

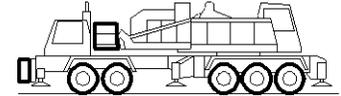


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138 Ft. Boom



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	44,400 Lb. Crane Counterweight	27,400 Lb. Crane Counterweight
			25,000 Lb. Bumper Cwt.	25,000 Lb. Bumper Cwt.
			Boom Capacity Pounds	Boom Capacity Pounds
24	81.5	145.6	86,700	74,300
26	80.6	145.2	78,400	67,200
28	79.8	144.9	71,500	61,100
30	78.9	144.5	65,600	56,000
32	78.1	144.1	60,500	51,500
34	77.2	143.7	56,000	47,600
36	76.4	143.2	52,100	44,100
38	75.5	142.7	48,600	41,100
40	74.7	142.2	45,400	38,400
45	72.5	140.7	38,900	32,700
50	70.3	139.0	33,700	28,100
55	68.1	137.1	29,500	24,500
60	65.8	135.0	26,100	21,500
65	63.5	132.6	23,200	18,900
70	61.2	130.0	20,700	16,700
75	58.8	127.1	18,500	14,900
80	56.3	123.9	16,700	13,200
85	53.8	120.4	15,000	11,800
90	51.2	116.6	13,600	10,500
95	48.5	112.4	12,200	9,400
100	45.6	107.7	11,100	8,300
105	42.6	102.6	10,000	7,400
110	39.5	96.8	9,000	6,600
115	36.1	90.4	8,100	5,800
120	32.4	83.1	7,300	5,000
125	28.3	74.5	6,500	4,400
130	23.6	64.2	5,800	
135	17.7	50.9	5,100	

148 Ft. Boom

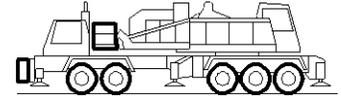


Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	44,400 Lb. Crane Counterweight	27,400 Lb. Crane Counterweight
			25,000 Lb. Bumper Cwt.	25,000 Lb. Bumper Cwt.
			Boom Capacity Pounds	Boom Capacity Pounds
24	82.0	155.7	86,400	74,000
26	81.3	155.4	78,100	66,900
28	80.5	155.0	71,200	60,800
30	79.7	154.7	65,300	55,600
32	78.9	154.3	60,200	51,200
34	78.1	153.9	55,700	47,300
36	77.3	153.5	51,700	43,800
38	76.5	153.0	48,200	40,800
40	75.7	152.5	45,100	38,000
45	73.7	151.1	38,600	32,300
50	71.7	149.6	33,400	27,800
55	69.6	147.8	29,200	24,100
60	67.6	145.9	25,700	21,100
65	65.4	143.7	22,800	18,600
70	63.3	141.3	20,300	16,400
75	61.1	138.7	18,200	14,500
80	58.9	135.8	16,300	12,900
85	56.6	132.6	14,700	11,500
90	54.2	129.2	13,200	10,200
95	51.8	125.4	11,900	9,000
100	49.3	121.3	10,700	8,000
105	46.7	116.8	9,700	7,100
110	44.0	111.9	8,700	6,200
115	41.1	106.4	7,800	5,400
120	38.1	100.4	7,000	4,700
125	34.8	93.6	6,200	
130	31.3	85.9	5,500	
135	27.3	77.0	4,900	
140	22.7	66.3	4,300	

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 Requirements



158 Ft. Boom



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	44,400 Lb. Crane Counterweight
			25,000 Lb. Bumper Cwt.
			Boom Capacity Pounds
26	81.8	165.5	77,800
28	81.1	165.2	70,900
30	80.3	164.8	64,900
32	79.6	164.5	59,800
34	78.9	164.1	55,300
36	78.1	163.7	51,400
38	77.4	163.3	47,900
40	76.6	162.8	44,700
45	74.8	161.5	38,200
50	72.9	160.1	33,000
55	71.0	158.5	28,800
60	69.0	156.6	25,400
65	67.1	154.6	22,400
70	65.1	152.4	20,000
75	63.1	150.0	17,800
80	61.0	147.3	15,900
85	58.9	144.4	14,300
90	56.8	141.3	12,800
95	54.6	137.9	11,500
100	52.4	134.2	10,400
105	50.0	130.2	9,300
110	47.6	125.8	8,300
115	45.1	121.0	7,400
120	42.5	115.8	6,600
125	39.7	110.1	5,900
130	36.8	103.7	5,200
135	33.7	96.7	4,500
140	30.2	88.7	3,900
145	26.4	79.4	3,400
150	22.0	68.3	2,800
155	16.5	53.9	2,300