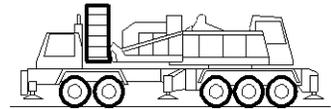




# Liftcrane Boom Capacities

**Boom No. 78T With Long Reach Top  
61,400 Lb. to 95,400 Lb. Crane Counterweight  
Without 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 without front bumper counterweight.

**Note:** Travel not allowed with 95,400 Lb. crane counterweight without boom attached.

Swing over side on rubber not allowed with 61,400 Lb. thru 95,400 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.

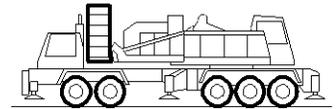


**777T**

# Liftcrane Boom Capacities

**Boom No. 78T With Long Reach Top**  
**61,400 Lb. to 95,400 Lb. Crane Counterweight**  
**Without Front Bumper Counterweight**  
**Rating Straight Over Rear On Rubber - 1/4 MPH Travel**

Meets  
**ANSI B30.5**  
 Requirements



<b>Maximum Boom and Jib Lengths Lifted Unassisted On Outriggers</b>			
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			
258 Ft.	—	248 Ft.	—
248 Ft.	—	238 Ft.	—
238 Ft.	—	228 Ft.	—
228 Ft.	50 Ft.	218 Ft.	40 Ft.
218 Ft.	70 Ft.	208 Ft.	60 Ft.
208 Ft.	80 Ft.	198 Ft.	80 Ft.
78,400 Lb. Crane Counterweight			
238 Ft.	—	228 Ft.	—
228 Ft.	—	218 Ft.	—
218 Ft.	30 Ft.	208 Ft.	—
208 Ft.	50 Ft.	198 Ft.	40 Ft.
198 Ft.	80 Ft.	188 Ft.	60 Ft.
		178 Ft.	80 Ft.
61,400 Lb. Crane Counterweight			
218 Ft.	—	208 Ft.	—
208 Ft.	—	198 Ft.	—
198 Ft.	40 Ft.	188 Ft.	—
188 Ft.	60 Ft.	178 Ft.	50 Ft.
178 Ft.	80 Ft.	168 Ft.	70 Ft.
		158 Ft.	80 Ft.
Load block, hook and weight ball on ground at start.			

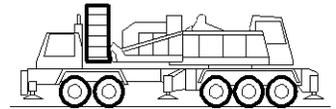
<b>Maximum Boom Lengths Lifted Unassisted On Outriggers</b>	
Over Rear of Outriggers	Over Side of Fully Extended Outriggers
Boom Length	Boom Length
44,400 Lb. Crane Counterweight	
208 Ft.	188 Ft.
27,400 Lb. Crane Counterweight	
188 Ft.	168 Ft.
10,400 Lb. Crane Counterweight	
158 Ft.	148 Ft.
0 Lb. Crane Counterweight	
148 Ft.	<b>Not Allowed</b>
Load block, hook and weight ball on ground at start.	

# Liftcrane Boom Capacities

Boom No. 78T With Long Reach Top  
61,400 Lb. to 95,400 Lb. Crane Counterweight  
Without Front Bumper Counterweight  
Rating Straight Over Rear On Rubber - 1/4 MPH Travel

Meets  
ANSI B30.5  
Requirements

**777T**



Maximum Boom and Jib Lengths Lifted Unassisted On Rubber		
Over Rear		Over Side
Boom Length	Jib No. 134	Boom Length
95,400 Lb. Crane Counterweight		
168 Ft.	—	<b>Not Allowed</b>
158 Ft.	—	
148 Ft.	40 Ft.	
138 Ft.	60 Ft.	
78,400 Lb. Crane Counterweight		
158 Ft.	—	<b>Not Allowed</b>
148 Ft.	—	
138 Ft.	30 Ft.	
61,400 Lb. Crane Counterweight		
138 Ft.	—	<b>Not Allowed</b>
44,400 Lb. Crane Counterweight		
<b>Not Allowed</b>		
27,400 Lb. Crane Counterweight		
<b>Not Allowed</b>		
10,400 Lb. Crane Counterweight		
<b>Not Allowed</b>		
0 Lb. Crane Counterweight		
<b>Not Allowed</b>		
Load block, hook and weight ball on ground at start.		

Jib may remain attached as shown in raising table for raising over rear on rubber but must not be used to pick loads on rubber.

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.

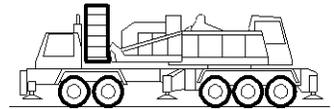


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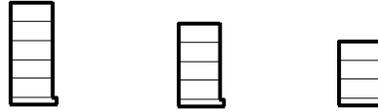
# Liftcrane Boom Capacities

**Boom No. 78T With Long Reach Top**  
**61,400 Lb. to 95,400 Lb. Crane Counterweight**  
**Without Front Bumper Counterweight**  
**Rating Straight Over Rear On Rubber - 1/4 MPH Travel**

Meets  
**ANSI B30.5**  
 Requirements



**138 Ft. Boom**

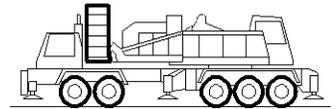


Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	95,400 Lb. Counterweight	78,400 Lb. Counterweight	61,400 Lb. Counterweight	Oper. Rad. Feet
			Boom Capacity Pounds	Boom Capacity Pounds	Boom Capacity Pounds	
24	81.5	145.6	94,100	81,800	69,500	24
26	80.6	145.2	85,300	74,000	62,700	26
28	79.8	144.9	77,800	67,400	57,000	28
30	78.9	144.5	71,400	61,800	52,200	30
32	78.1	144.1	65,900	56,900	47,900	32
34	77.2	143.7	61,100	52,700	44,300	34
36	76.4	143.2	56,900	48,900	41,000	36
38	75.5	142.7	53,100	45,600	38,100	38
40	74.7	142.2	49,700	42,600	35,600	40
45	72.5	140.7	42,700	36,400	30,200	45
50	70.3	139.0	37,100	31,500	25,900	50
55	68.1	137.1	32,600	27,500	22,500	55
60	65.8	135.0	28,900	24,300	19,600	60
65	63.5	132.6	25,700	21,500	17,200	65
70	61.2	130.0	23,100	19,100	15,200	70
75	58.8	127.1	20,800	17,100	13,400	75
80	56.3	123.9	18,700	15,300	11,900	80
85	53.8	120.4	17,000	13,700	10,500	85
90	51.2	116.6	15,400	12,400	9,300	90
95	48.5	112.4	14,000	11,100	8,200	95
100	45.6	107.7	12,700	10,000	7,300	100
105	42.6	102.6	11,600	9,000	6,400	105
110	39.5	96.8	10,500	8,000	5,600	110
115	36.1	90.4	9,600	7,200		115
120	32.4	83.1	8,700	6,400		120
125	28.3	74.5	7,900	5,700		125
130	23.6	64.2	7,100	5,000		130
135	17.7	50.9	6,400			135

# Liftcrane Boom Capacities

Boom No. 78T With Long Reach Top  
61,400 Lb. to 95,400 Lb. Crane Counterweight  
Without Front Bumper Counterweight  
Rating Straight Over Rear On Rubber - 1/4 MPH Travel

Meets  
ANSI B30.5  
Requirements

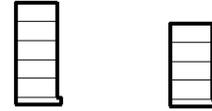


**148 Ft. Boom**



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	95,400 Lb. Counterweight	78,400 Lb. Counterweight
			Boom Capacity Pounds	Boom Capacity Pounds
24	82.0	155.7	93,800	81,500
26	81.3	155.4	85,000	73,700
28	80.5	155.0	77,500	67,100
30	79.7	154.7	71,100	61,500
32	78.9	154.3	65,600	56,600
34	78.1	153.9	60,800	52,400
36	77.3	153.5	56,500	48,600
38	76.5	153.0	52,800	45,300
40	75.7	152.5	49,400	42,300
45	73.7	151.1	42,300	36,100
50	71.7	149.6	36,800	31,200
55	69.6	147.8	32,300	27,200
60	67.6	145.9	28,500	23,900
65	65.4	143.7	25,400	21,100
70	63.3	141.3	22,700	18,800
75	61.1	138.7	20,400	16,700
80	58.9	135.8	18,400	15,000
85	56.6	132.6	16,600	13,400
90	54.2	129.2	15,000	12,000
95	51.8	125.4	13,600	10,800
100	49.3	121.3	12,400	9,700
105	46.7	116.8	11,200	8,600
110	44.0	111.9	10,200	7,700
115	41.1	106.4	9,200	6,900
120	38.1	100.4	8,400	6,100
125	34.8	93.6	7,600	5,400
130	31.3	85.9	6,800	
135	27.3	77.0	6,100	
140	22.7	66.3	5,400	
145	17.0	52.5	4,800	

**158 Ft. Boom**



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	95,400 Lb. Counterweight	78,400 Lb. Counterweight
			Boom Capacity Pounds	Boom Capacity Pounds
26	81.8	165.5	84,600	73,400
28	81.1	165.2	77,200	66,800
30	80.3	164.8	70,800	61,100
32	79.6	164.5	65,300	56,300
34	78.9	164.1	60,400	52,000
36	78.1	163.7	56,200	48,300
38	77.4	163.3	52,400	44,900
40	76.6	162.8	49,000	42,000
45	74.8	161.5	42,000	35,700
50	72.9	160.1	36,400	30,800
55	71.0	158.5	31,900	26,800
60	69.0	156.6	28,200	23,500
65	67.1	154.6	25,000	20,800
70	65.1	152.4	22,300	18,400
75	63.1	150.0	20,000	16,400
80	61.0	147.3	18,000	14,600
85	58.9	144.4	16,200	13,000
90	56.8	141.3	14,700	11,600
95	54.6	137.9	13,300	10,400
100	52.4	134.2	12,000	9,300
105	50.0	130.2	10,900	8,300
110	47.6	125.8	9,800	7,400
115	45.1	121.0	8,900	6,500
120	42.5	115.8	8,000	5,700
125	39.7	110.1	7,200	
130	36.8	103.7	6,500	
135	33.7	96.7	5,800	
140	30.2	88.7	5,100	

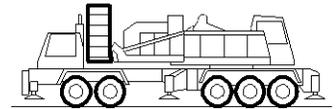


**777T**

# Liftcrane Boom Capacities

Boom No. 78T With Long Reach Top  
 61,400 Lb. to 95,400 Lb. Crane Counterweight  
 Without Front Bumper Counterweight  
 Rating Straight Over Rear On Rubber - 1/4 MPH Travel

Meets  
 ANSI B30.5  
 Requirements



## 168 Ft. Boom

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	95,400 Lb. Counterweight
			Boom Capacity Pounds
28	81.6	175.3	76,700
30	80.9	175.0	70,300
32	80.2	174.6	64,800
34	79.5	174.3	59,900
36	78.8	173.9	55,700
38	78.1	173.5	51,900
40	77.5	173.1	48,500
45	75.7	171.9	41,500
50	73.9	170.5	35,900
55	72.1	169.0	31,400
60	70.3	167.3	27,600
65	68.5	165.4	24,500
70	66.7	163.4	21,800
75	64.8	161.1	19,500
80	62.9	158.7	17,500
85	61.0	156.0	15,700
90	59.0	153.1	14,100
95	57.0	150.0	12,700
100	54.9	146.6	11,500
105	52.8	143.0	10,300
110	50.7	139.0	9,300
115	48.4	134.7	8,300
120	46.1	130.1	7,500
125	43.7	125.1	6,700
130	41.2	119.6	5,900
135	38.5	113.6	5,300