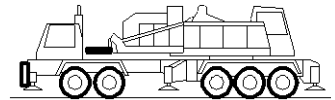




Liftcrane Boom Capacities

**Boom No. 78T With Heavy Lift Top
0 Lb. to 10,400 Lb. Crane Counterweight
With 8,000 Lb. Front Bumper Counterweight Adapter
Rating Over Side Sector 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 (*).

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

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. 192043**, Wire Rope Specification chart **No. 7973-A** and Operating Range Diagram chart **No. 7974-D**. Crane operator judgment must be used to allow for dynamic load effects of swinging, 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. 7976-A**, Maximum Allowable Traveling Weight chart **No. 7972-A** and 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 with 8,000 Lb. front bumper counterweight adapter.

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

Swing over side on rubber not allowed with 27,400 Lb. thru 95,400 Lb. crane counterweight.

Swing over side on rubber with 0 Lb. or 10,400 Lb. crane counterweight is allowed with or without boom attached.

360 degree swing on rubber with 0 Lb. or 10,400 Lb. crane counterweight is allowed without boom attached.

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.

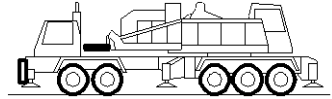
Upper Boom Point Deduct
Deduct 1,000 Lbs. from capacities when upper boom point is attached.

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

Liftcrane Boom Capacities

**Boom No. 78T With Heavy Lift Top
0 Lb. to 10,400 Lb. Crane Counterweight
With 8,000 Lb. Front Bumper Counterweight Adapter
Rating Over Side Sector On Rubber - 1/4 MPH Travel**

**Meets
ANSI B30.5
Requirements**

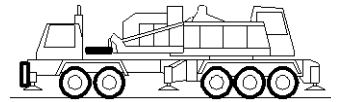


Maximum Boom and Jib Lengths Lifted Unassisted On Outriggers			
Over Rear of Outriggers		Over Side of Fully Extended Outriggers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
95,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.			
240 Ft.	---	220 Ft.	---
230 Ft.	---	210 Ft.	---
220 Ft.	50 Ft.	200 Ft.	30 Ft.
210 Ft.	70 Ft.	190 Ft.	60 Ft.
200 Ft.	80 Ft.	180 Ft.	80 Ft.
78,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.			
230 Ft.	---	200 Ft.	---
220 Ft.	---	190 Ft.	30 Ft.
210 Ft.	30 Ft.	180 Ft.	50 Ft.
200 Ft.	60 Ft.	170 Ft.	80 Ft.
190 Ft.	80 Ft.		
61,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.			
210 Ft.	---	180 Ft.	---
200 Ft.	---	170 Ft.	40 Ft.
190 Ft.	40 Ft.	160 Ft.	60 Ft.
180 Ft.	70 Ft.	150 Ft.	80 Ft.
170 Ft.	80 Ft.		
44,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.			
190 Ft.	---	170 Ft.	---
180 Ft.	30 Ft.	160 Ft.	---
170 Ft.	50 Ft.	150 Ft.	40 Ft.
160 Ft.	70 Ft.	140 Ft.	60 Ft.
150 Ft.	80 Ft.	130 Ft.	80 Ft.
Load block, hook and weight ball on ground at start.			

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 + 8,000 Lb. Front Bumper Cwt.		
Not Allowed		
78,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.		
140 Ft.	---	Not Allowed
130 Ft.	30 Ft.	
120 Ft.	60 Ft.	
110 Ft.	80 Ft.	
61,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.		
130 Ft.	---	Not Allowed
120 Ft.	---	
110 Ft.	40 Ft.	
100 Ft.	70 Ft.	
44,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.		
110 Ft.	---	Not Allowed
Load block, hook and weight ball on ground at start.		



777T



Meets
ANSI B30.5
Requirements

Liftcrane Boom Capacities

**Boom No. 78T With Heavy Lift Top
0 Lb. to 10,400 Lb. Crane Counterweight
With 8,000 Lb. Front Bumper Counterweight Adapter
Rating Over Side Sector On Rubber - 1/4 MPH Travel**

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
27,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.			
170 Ft.	---	140 Ft.	---
160 Ft.	30 Ft.	130 Ft.	40 Ft.
150 Ft.	50 Ft.	120 Ft.	70 Ft.
140 Ft.	80 Ft.	110 Ft.	80 Ft.
10,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.			
150 Ft.	---	120 Ft.	---
140 Ft.	30 Ft.	110 Ft.	30 Ft.
130 Ft.	60 Ft.	100 Ft.	60 Ft.
120 Ft.	80 Ft.		
0 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.			
140 Ft.	---	110 Ft.	---
130 Ft.	30 Ft.		
120 Ft.	50 Ft.		
110 Ft.	70 Ft.		
100 Ft.	80 Ft.		
Load block, hook and weight ball on ground at start.			

Maximum Boom and Jib Lengths Lifted Unassisted On Rubber		
Over Rear		Over Side
Boom Length	Jib No. 134	Boom Length
27,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.		
90 Ft.	---	Not Allowed
10,400 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.		
70 Ft.	---	42.5 Ft.
0 Lb. Crane Counterweight + 8,000 Lb. Front Bumper Cwt.		
60 Ft.	---	Not Allowed
Load block, hook and weight ball on ground at start.		

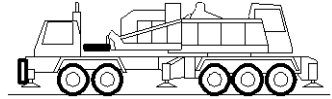
Jib may remain attached as shown in raising table for raising over rear on rubber but must not be used to pick loads on rubber.

Refer to chart **No. 8063-A, -B or -C** (0, 8,000 or 25,000 Lb. front bumper counterweight [FBC]) for fully extended outrigger boom capacities, chart **No. 8094-A, -C or -E** (0, 8,000 or 25,000 Lb. FBC) for straight over rear on rubber boom capacities, chart **No. 8094-B, -D or -F** (0, 8,000 or 25,000 Lb. FBC) for over side sector on rubber boom capacities, chart **No. 8095-A** for partially extended outrigger boom capacities and chart **No. 8096-A** for fully retracted outrigger boom capacities.

Liftcrane Boom Capacities

Boom No. 78T With Heavy Lift Top
 0 Lb. to 10,400 Lb. Crane Counterweight
 With 8,000 Lb. Front Bumper Counterweight Adapter
 Rating Over Side Sector On Rubber - 1/4 MPH Travel

Meets
 ANSI B30.5
 Requirements



42.5 Ft. Boom



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	10,400 Lb. Crane Counterweight	0 Lb. Crane Counterweight
			8,000 Lb. Bumper Cwt.	8,000 Lb. Bumper Cwt.
			Boom Capacity Pounds	Boom Capacity Pounds
13	80.2	50.1	70,400 *	60,300
14	78.8	49.8	65,400 *	52,900
15	77.4	49.6	61,000 *	46,900
16	76.0	49.3	56,700	41,900
17	74.6	48.9	51,400	37,700
18	73.1	48.6	46,700	34,100
19	71.7	48.2	42,700	30,900
20	70.2	47.8	39,300	28,200
22	67.2	46.9	33,400	23,600
24	64.1	45.8	28,800	19,900
26	61.0	44.6	24,900	16,900
28	57.7	43.3	21,700	14,400
30	54.2	41.8	19,000	12,200
32	50.6	40.0	16,600	10,300
34	46.8	38.1	14,600	8,700
36	42.7	35.8	12,700	7,200
38	38.2	33.2	11,100	5,900
40	33.1	30.0	9,600	4,700
45	12.7	16.0	6,200	

60 Ft. Boom



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	10,400 Lb. Crane Counterweight	0 Lb. Crane Counterweight
			8,000 Lb. Bumper Cwt.	8,000 Lb. Bumper Cwt.
			Boom Capacity Pounds	Boom Capacity Pounds
16	80.3	67.8	55,100 *	42,300
17	79.3	67.6	51,600 *	38,100
18	78.3	67.4	47,100	34,400
19	77.3	67.1	43,100	31,200
20	76.4	66.8	39,600	28,500
22	74.4	66.2	33,700	23,900
24	72.3	65.5	29,000	20,200
26	70.3	64.8	25,200	17,200
28	68.2	63.9	22,000	14,600
30	66.1	63.0	19,300	12,500
32	64.0	61.9	17,000	10,700
34	61.8	60.8	15,000	9,100
36	59.5	59.6	13,200	7,700
38	57.2	58.2	11,600	6,400
40	54.9	56.8	10,200	5,300
45	48.6	52.5	7,300	3,000
50	41.6	47.1	4,900	
55	33.3	40.0	3,000	

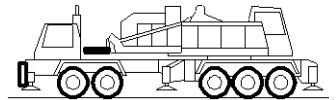


777T

Liftcrane Boom Capacities

Boom No. 78T With Heavy Lift Top
 0 Lb. to 10,400 Lb. Crane Counterweight
 With 8,000 Lb. Front Bumper Counterweight Adapter
 Rating Over Side Sector On Rubber - 1/4 MPH Travel

Meets
 ANSI B30.5
 Requirements



70 Ft. Boom



Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	10,400 Lb. Crane Counterweight
			8,000 Lb. Bumper Cwt.
			Boom Capacity Pounds
17	80.9	77.8	52,300 *
18	80.0	77.6	48,300
19	79.2	77.4	44,300
20	78.4	77.2	40,800
22	76.7	76.6	34,900
24	75.0	76.1	30,200
26	73.2	75.4	26,400
28	71.5	74.7	23,200
30	69.7	73.9	20,500
32	68.0	73.1	18,100
34	66.2	72.1	16,100
36	64.3	71.1	14,300
38	62.5	70.0	12,800
40	60.6	68.9	11,400
45	55.6	65.5	8,500
50	50.4	61.5	6,200
55	44.6	56.6	4,300
60	38.2	50.5	2,700

