

Liftcrane Boom Capacities

Bulk Material Handling

M-250

Boom No. 44 With Heavy Lift Top
104,000 Lb. Counterweight
Pedestal Mount
0 Degree, 0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and are based on structural competence, operating speeds and other factors.

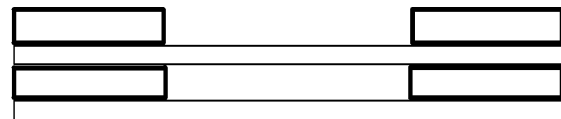
Weight of bucket is considered part of load. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate with turntable bearing properly supported, gantry up and machine list not to exceed degrees noted with exception of 0 degree machine list which must not exceed 0.5 degrees. Refer to boom rigging **No. 170424** or **No. 172610** and Wire Rope Specification chart **No. 7979-A**. Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at top of turntable bearing to

center of gravity of freely suspended load. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius.

MACHINE EQUIPMENT: Machine equipped with 28 Ft. retractable gantry, 12 part boom hoist reeving, four 1-1/2 in. boom pendants and 104,000 Lb. counterweight.



M-250

104,000 Lb. (34 360 kg) Crane Counterweight

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
70 Ft. Boom				
30	73.8	40,000 *	40,000 *	40,000 *
35	69.4	40,000 *	40,000 *	40,000 *
40	64.9	40,000 *	40,000 *	40,000 *
45	60.2	40,000 *	40,000 *	40,000 *
50	55.2	40,000 *	40,000 *	40,000 *
55	49.9	40,000 *	40,000 *	40,000 *
60	44.1	40,000 *	40,000 *	40,000 *
65	37.5	40,000 *	40,000 *	40,000 *
80 Ft. Boom				
30	75.9	40,000 *	40,000 *	40,000 *
35	72.1	40,000 *	40,000 *	40,000 *
40	68.3	40,000 *	40,000 *	40,000 *
45	64.3	40,000 *	40,000 *	40,000 *
50	60.2	40,000 *	40,000 *	40,000 *
55	55.8	40,000 *	40,000 *	40,000 *
60	51.3	40,000 *	40,000 *	40,000 *
65	46.4	40,000 *	40,000 *	40,000 *
70	41.0	40,000 *	40,000 *	40,000 *
75	34.8	40,000 *	40,000 *	40,000 *

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
90 Ft. Boom				
35	74.2	40,000 *	40,000 *	40,000 *
40	70.8	40,000 *	40,000 *	40,000 *
45	67.4	40,000 *	40,000 *	40,000 *
50	63.8	40,000 *	40,000 *	40,000 *
55	60.1	40,000 *	40,000 *	40,000 *
60	56.3	40,000 *	40,000 *	40,000 *
65	52.3	40,000 *	40,000 *	40,000 *
70	48.1	40,000 *	40,000 *	40,000 *
75	43.5	40,000 *	40,000 *	40,000 *
80	38.4	40,000 *	40,000 *	40,000 *
85	32.7	40,000 *	40,000 *	40,000 *

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100 Ft. Boom				
35	75.8	40,000 *	40,000 *	40,000 *
40	72.8	40,000 *	40,000 *	40,000 *
45	69.8	40,000 *	40,000 *	40,000 *
50	66.6	40,000 *	40,000 *	40,000 *
55	63.4	40,000 *	40,000 *	40,000 *
60	60.1	40,000 *	40,000 *	40,000 *
65	56.7	40,000 *	40,000 *	40,000 *
70	53.1	40,000 *	40,000 *	40,000 *
75	49.4	40,000 *	40,000 *	40,000 *
80	45.4	40,000 *	40,000 *	40,000 *
85	41.1	40,000 *	40,000 *	40,000 *
90	36.3	40,000 *	40,000 *	37,700 *
95	30.9	40,000 *	39,700 *	35,300 *
110 Ft. Boom				
40	74.4	40,000 *	40,000 *	40,000 *
45	71.7	40,000 *	40,000 *	40,000 *
50	68.9	40,000 *	40,000 *	40,000 *
55	66.0	40,000 *	40,000 *	40,000 *
60	63.1	40,000 *	40,000 *	40,000 *
65	60.1	40,000 *	40,000 *	40,000 *
70	57.0	40,000 *	40,000 *	40,000 *
75	53.8	40,000 *	40,000 *	40,000 *
80	50.4	40,000 *	40,000 *	40,000 *
85	46.9	40,000 *	40,000 *	40,000 *
90	43.1	40,000 *	40,000 *	37,500 *
95	39.0	40,000 *	39,700 *	35,200 *
100	34.5	39,000 *	37,500 *	33,000 *
120 Ft. Boom				
40	75.8	40,000 *	40,000 *	40,000 *
45	73.3	40,000 *	40,000 *	40,000 *
50	70.7	40,000 *	40,000 *	40,000 *
55	68.2	40,000 *	40,000 *	40,000 *
60	65.5	40,000 *	40,000 *	40,000 *
65	62.9	40,000 *	40,000 *	40,000 *
70	60.1	40,000 *	40,000 *	40,000 *
75	57.3	40,000 *	40,000 *	40,000 *
80	54.3	40,000 *	40,000 *	40,000 *
85	51.3	40,000 *	40,000 *	39,900 *
90	48.1	40,000 *	40,000 *	37,300 *
95	44.7	40,000 *	39,600 *	34,900 *
100	41.1	39,700 *	37,400 *	32,800 *
105	37.2	35,500 *	34,600 *	30,900 *
110	32.9	31,600 *	31,000 *	29,100 *

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
130 Ft. Boom				
45	74.6	40,000 *	40,000 *	40,000 *
50	72.3	40,000 *	40,000 *	40,000 *
55	69.9	40,000 *	40,000 *	40,000 *
60	67.6	40,000 *	40,000 *	40,000 *
65	65.1	40,000 *	40,000 *	40,000 *
70	62.6	40,000 *	40,000 *	40,000 *
75	60.1	40,000 *	40,000 *	40,000 *
80	57.5	40,000 *	40,000 *	40,000 *
85	54.8	40,000 *	40,000 *	39,900 *
90	52.0	40,000 *	40,000 *	37,200 *
95	49.1	40,000 *	39,600 *	34,900 *
100	46.0	40,000 *	37,400 *	32,800 *
105	42.8	36,700 *	35,500 *	30,900 *
110	39.4	32,900 *	32,100 *	29,100 *
115	35.7	29,500 *	28,800 *	27,500 *
120	31.5	26,300 *	25,800 *	24,700 *
140 Ft. Boom				
45	75.7	40,000 *	40,000 *	40,000 *
50	73.6	40,000 *	40,000 *	40,000 *
55	71.4	40,000 *	40,000 *	40,000 *
60	69.3	40,000 *	40,000 *	40,000 *
65	67.0	40,000 *	40,000 *	40,000 *
70	64.8	40,000 *	40,000 *	40,000 *
75	62.5	40,000 *	40,000 *	40,000 *
80	60.1	40,000 *	40,000 *	40,000 *
85	57.7	40,000 *	40,000 *	39,600 *
90	55.2	40,000 *	40,000 *	37,000 *
95	52.6	40,000 *	39,500 *	34,600 *
100	49.9	40,000 *	37,300 *	32,500 *
105	47.2	36,800 *	35,400 *	30,600 *
110	44.2	33,000 *	32,000 *	28,800 *
115	41.2	29,600 *	28,800 *	27,200 *
120	37.9	26,500 *	25,800 *	24,400 *
125	34.3	23,700 *	23,100 *	21,900 *
130	30.3	21,000 *	20,500 *	19,600 *