

# Liftcrane Boom Capacities

## Bulk Material Handling

## 2250 SERIES 1

**Boom No. 44 With Heavy Lift Top**  
**169,200 Lb. Counterweight**  
**Pedestal Mount - 0 Degree Machine List**

**LIFTING CAPACITIES:** Lifting 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 in a level position on a firm uniformly supporting surface with turntable bearing properly supported and gantry up. Refer to boom rigging **No. 179809**, Wire Rope Specification chart **No. 8068-A** and Counterweight Arrangement chart

**No. 8026-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 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, boom support straps and 169,200 Lb. counterweight.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>70 Ft. BOOM</b>		
30	73.8	40,000
35	69.4	40,000
40	64.9	40,000
45	60.2	40,000
50	55.2	40,000
55	49.9	40,000
60	44.1	40,000
65	37.5	40,000
<b>80 Ft. BOOM</b>		
30	75.9	40,000
35	72.1	40,000
40	68.3	40,000
45	64.3	40,000
50	60.2	40,000
55	55.8	40,000
60	51.3	40,000
65	46.4	40,000
70	41.0	40,000
75	34.8	40,000
<b>90 Ft. BOOM</b>		
35	74.2	40,000
40	70.8	40,000
45	67.4	40,000
50	63.8	40,000
55	60.1	40,000
60	56.3	40,000
65	52.3	40,000
70	48.1	40,000
75	43.5	40,000
80	38.4	40,000
85	32.7	40,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>100 Ft. BOOM</b>		
35	75.8	40,000
40	72.8	40,000
45	69.8	40,000
50	66.6	40,000
55	63.4	40,000
60	60.1	40,000
65	56.7	40,000
70	53.1	40,000
75	49.4	40,000
80	45.4	40,000
85	41.1	40,000
90	36.3	40,000
95	30.9	40,000
<b>110 Ft. BOOM</b>		
40	74.4	40,000
45	71.7	40,000
50	68.9	40,000
55	66.0	40,000
60	63.1	40,000
65	60.1	40,000
70	57.0	40,000
75	53.8	40,000
80	50.4	40,000
85	46.9	40,000
90	43.1	40,000
95	39.0	40,000
100	34.5	39,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>120 Ft. BOOM</b>		
40	75.8	40,000
45	73.3	40,000
50	70.7	40,000
55	68.2	40,000
60	65.5	40,000
65	62.9	40,000
70	60.1	40,000
75	57.3	40,000
80	54.3	40,000
85	51.3	40,000
90	48.1	40,000
95	44.7	40,000
100	41.1	39,700
105	37.2	35,500
110	32.9	31,600
<b>130 Ft. BOOM</b>		
45	74.6	40,000
50	72.3	40,000
55	69.9	40,000
60	67.6	40,000
65	65.1	40,000
70	62.6	40,000
75	60.1	40,000
80	57.5	40,000
85	54.8	40,000
90	52.0	40,000
95	49.1	40,000
100	46.0	40,000
105	42.8	36,700
110	39.4	32,900
115	35.7	29,500
120	31.5	26,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>140 Ft. BOOM</b>		
45	75.7	40,000
50	73.6	40,000
55	71.4	40,000
60	69.3	40,000
65	67.0	40,000
70	64.8	40,000
75	62.5	40,000
80	60.1	40,000
85	57.7	40,000
90	55.2	40,000
95	52.6	40,000
100	49.9	40,000
105	47.2	36,800
110	44.2	33,000
115	41.2	29,600
120	37.9	26,500
125	34.3	23,700
130	30.3	21,000