

Liftcrane Boom Capacities

Bulk Material Handling

Boom No. 44 With Heavy Lift Top
167,000 Lb. Counterweight
360 Degree Rating

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 are based on tipping, 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 gantry up. Refer to boom rigging **No. 172610** or **No. 179809**, Wire Rope Specification chart **No. 7979-A** and Counterweight Arrangement chart **No. 7692-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 30 Ft. 9 in. crawlers, 48 in. treads, 28 Ft. retractable gantry, 12 part boom hoist reeving, four 1-1/2 in. boom pendants or boom support straps, and 167,000 Lb. counterweight.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
70 Ft. BOOM		
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 *
80 Ft. BOOM		
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 *
90 Ft. BOOM		
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
100 Ft. BOOM		
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 *
110 Ft. BOOM		
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
120 Ft. BOOM		
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 *
130 Ft. BOOM		
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
140 Ft. BOOM		
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 *