

# Clamshell/Grapple Capacities

**Boom No. 44 With Heavy Lift Top**  
**104,000 lb Counterweight**  
**360 Degree Rating**

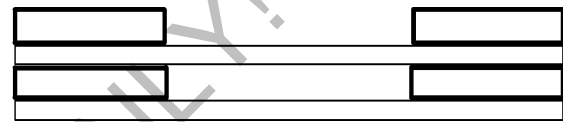
**LIFTING CAPACITIES:** Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 67.5% of a static tipping load. Capacities are based on tipping, structural competence(\*), operating speeds and other factors.

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. 179809** or **No. 172610**, counterweight arrangement **7692-A** 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 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. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>70.0 ft</b>		
35	69.4	32,000 *
40	64.9	32,000 *
45	60.2	32,000 *
50	55.2	32,000 *
55	49.9	32,000 *
60	44.1	32,000 *
65	37.5	32,000 *
70	29.6	32,000 *
<b>80.0 ft</b>		
40	68.3	32,000 *
45	64.3	32,000 *
50	60.2	32,000 *
55	55.8	32,000 *
60	51.3	32,000 *
65	46.4	32,000 *
70	41.0	32,000 *
75	34.8	32,000 *
80	27.5	32,000 *
<b>90.0 ft</b>		
45	67.4	32,000 *
50	63.8	32,000 *
55	60.1	32,000 *
60	56.3	32,000 *
65	52.3	32,000 *
70	48.1	32,000 *
75	43.5	32,000 *
80	38.4	32,000 *
85	32.7	32,000 *
90	25.8	32,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>100.0 ft</b>		
50	66.6	32,000 *
55	63.4	32,000 *
60	60.1	32,000 *
65	56.7	32,000 *
70	53.1	32,000 *
75	49.4	32,000 *
80	45.4	32,000 *
85	41.1	32,000 *
90	36.3	32,000 *
95	30.9	32,000 *
100	24.3	32,000 *
<b>110.0 ft</b>		
55	66.0	32,000 *
60	63.1	32,000 *
65	60.1	32,000 *
70	57.0	32,000 *
75	53.8	32,000 *
80	50.4	32,000 *
85	46.9	32,000 *
90	43.1	32,000 *
95	39.0	32,000 *
100	34.5	32,000 *
105	29.3	31,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>120.0 ft</b>		
60	65.5	32,000 *
65	62.9	32,000 *
70	60.1	32,000 *
75	57.3	32,000 *
80	54.3	32,000 *
85	51.3	32,000 *
90	48.1	32,000 *
95	44.7	32,000 *
100	41.1	32,000 *
105	37.2	31,400
110	32.9	28,900
115	28.0	26,700
<b>130.0 ft</b>		
65	65.1	32,000 *
70	62.6	32,000 *
75	60.1	32,000 *
80	57.5	32,000 *
85	54.8	32,000 *
90	52.0	32,000 *
95	49.1	32,000 *
100	46.0	32,000 *
105	42.8	31,400
110	39.4	28,900
115	35.7	26,700
120	31.5	24,700
125	26.8	22,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>140.0 ft</b>		
65	67.0	32,000 *
70	64.8	32,000 *
75	62.5	32,000 *
80	60.1	32,000 *
85	57.7	32,000 *
90	55.2	32,000 *
95	52.6	32,000 *
100	49.9	32,000 *
105	47.2	30,900
110	44.2	28,500
115	41.2	26,300
120	37.9	24,200
125	34.3	22,400
130	30.3	20,700
135	25.8	19,100