



# Clamshell/Grapple Capacities

# 2250 SERIES 1

**40,000 Lb. Rating**  
**Boom No. 44 With Heavy Lift Top**  
**107,100 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. 193048**, Wire Rope Specification chart **No. 8159-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 30 Ft. 9 in. crawlers, 48 in. treads, **independently powered full width front and rear drums**, dual swing drive, 28 Ft. retractable gantry, 12 part boom hoist reeving, four 1-1/2 in. single length boom pendants and 107,100 Lb. counterweight.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>70 Ft. BOOM</b>		
40	67.0	40,000 *
45	62.7	40,000 *
50	58.2	40,000 *
55	53.5	40,000 *
60	48.4	40,000 *
65	42.9	40,000 *
70	36.7	40,000 *
75	29.2	40,000 *
<b>80 Ft. BOOM</b>		
45	66.2	40,000 *
50	62.4	40,000 *
55	58.4	40,000 *
60	54.3	40,000 *
65	49.9	40,000 *
70	45.2	40,000 *
75	40.1	40,000 *
80	34.3	40,000 *
85	27.3	40,000 *
<b>90 Ft. BOOM</b>		
50	65.5	40,000 *
55	62.1	40,000 *
60	58.6	40,000 *
65	54.9	40,000 *
70	51.1	40,000 *
75	47.0	40,000 *
80	42.6	40,000 *
85	37.7	40,000 *
90	32.3	40,000 *
95	25.7	40,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>100 Ft. BOOM</b>		
50	68.0	40,000 *
55	65.0	40,000 *
60	61.9	40,000 *
65	58.7	40,000 *
70	55.4	40,000 *
75	52.0	40,000 *
80	48.3	40,000 *
85	44.5	40,000 *
90	40.3	40,000 *
95	35.8	40,000 *
100	30.6	37,300
<b>110 Ft. BOOM</b>		
55	67.3	40,000 *
60	64.6	40,000 *
65	61.7	40,000 *
70	58.8	40,000 *
75	55.8	40,000 *
80	52.7	40,000 *
85	49.5	40,000 *
90	46.0	40,000 *
95	42.4	40,000 *
100	38.4	36,900
105	34.1	34,100
110	29.1	31,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>120 Ft. BOOM</b>		
60	66.7	40,000 *
65	64.2	40,000 *
70	61.6	40,000 *
75	58.9	40,000 *
80	56.2	40,000 *
85	53.3	40,000 *
90	50.4	40,000 *
95	47.3	40,000 *
100	44.0	36,900
105	40.5	34,100
110	36.7	31,600
115	32.6	29,300
120	27.9	27,200
<b>130 Ft. BOOM</b>		
65	66.3	40,000 *
70	63.9	40,000 *
75	61.5	40,000 *
80	59.0	40,000 *
85	56.5	40,000 *
90	53.9	40,000 *
95	51.1	39,600
100	48.3	36,400
105	45.3	33,600
110	42.2	31,100
115	38.9	28,800
120	35.3	26,700
125	31.3	24,800
130	26.8	23,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Capacity Pounds
<b>140 Ft. BOOM</b>		
65	68.0	40,000 *
70	65.8	40,000 *
75	63.6	40,000 *
80	61.4	40,000 *
85	59.1	40,000 *
90	56.7	40,000 *
95	54.3	39,200
100	51.8	36,000
105	49.2	33,200
110	46.5	30,700
115	43.6	28,400
120	40.6	26,400
125	37.4	24,500
130	34.0	22,700
135	30.1	21,100
140	25.8	18,700 *