



# Clamshell Capacities

**50,900 lb Crane Counterweight  
Extended Position Crawlers  
360 Degree Rating**

## 12000-1

### LIFTING CAPACITIES:

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, and multiple machine lifts).
- Capacities do not exceed 66% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk \* in the charts.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
- Do not attempt to lift where no radius on load chart is listed as crane may tip or collapse.
- Weight of bucket is part of the total load. Its total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- Load radius is horizontal distance from axis of rotation to center of gravity of the freely suspended load. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of radius. In all cases, operating radius shall govern capacity.
- Least stable position is over the side.
- Boom point elevation is vertical distance from ground level to centerline of boom point shaft.
- Lifting capacities listed apply only to the machine as originally manufactured and designed. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- Jib installation is prohibited.

### OPERATING CONDITION:

- The machine must be reeved and set-up as stated in the Operator Manual. If this manual is missing, obtain replacement.
  - Boom backstops are required for all boom lengths.
  - Gantry must be fully raised position for all operation.
  - Crawlers must be fully extended and be locked in position.
  - The crane must be leveled to within 1% on a firm supporting surface.
  - Refer to operator manual for operating guidelines.

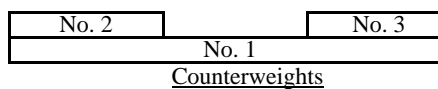
Maximum Boom Lengths Lifted Unassisted	
Over End of Crawlers	
120 ft	
Clam bucket on ground at start	

- See Operator Manual Section 6 for Wire Rope Specifications.
- Machine equipped with 22 ft 3 in crawlers, 36 in treads, 10 parts of boom hoist reeving, 50,900 lb crane counterweight.

#### Hoist Reeving for Main Boom Loads

No. of Parts of Line	1
Maximum Loads (lb)	25,000

Assembling the Counterweight  
50,900 lb counterweight (No. 1 - No. 3)  
Without carbody weight



**Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty.**



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>50 ft Boom</b>			
26.0	64.4	51.9	25,000 *
28.0	61.8	50.9	25,000 *
30.0	59.2	49.7	25,000 *
32.0	56.4	48.4	25,000 *
34.0	53.6	46.9	25,000 *
36.0	50.7	45.3	25,000 *
38.0	47.6	43.5	25,000 *
40.0	44.3	41.5	25,000 *
45.0	35.2	35.3	23,100
<b>60 ft Boom</b>			
30.0	64.8	61.1	25,000 *
32.0	62.6	60.1	25,000 *
34.0	60.4	59.0	25,000 *
36.0	58.2	57.7	25,000 *
38.0	55.9	56.4	25,000 *
40.0	53.5	54.9	25,000 *
45.0	47.2	50.7	22,900
50.0	40.2	45.3	19,800
55.0	31.9	38.2	17,400
<b>70 ft Boom</b>			
34.0	65.0	70.3	25,000 *
36.0	63.2	69.3	25,000 *
38.0	61.3	68.2	25,000 *
40.0	59.4	67.0	25,000 *
45.0	54.5	63.7	22,700
50.0	49.2	59.6	19,600
55.0	43.5	54.8	17,200
60.0	37.1	48.7	15,200

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>80 ft Boom</b>			
40.0	63.6	78.5	25,000 *
45.0	59.5	75.7	22,500
50.0	55.2	72.4	19,400
55.0	50.7	68.5	17,000
60.0	45.8	64.0	15,000
65.0	40.5	58.5	13,200
70.0	34.6	51.9	11,900
<b>90 ft Boom</b>			
45.0	63.2	87.1	21,600 *
50.0	59.5	84.3	19,200
55.0	55.8	81.1	16,800
60.0	51.8	77.4	14,800
65.0	47.6	73.0	13,000
70.0	43.0	68.0	11,700
75.0	38.1	62.0	10,600
80.0	32.5	54.8	9,500
<b>100 ft Boom</b>			
50.0	62.9	95.8	18,500 *
55.0	59.6	93.0	16,500
60.0	56.2	89.8	14,600
65.0	52.6	86.2	12,800
70.0	48.9	82.0	11,500
75.0	45.0	77.2	10,400
80.0	40.7	71.8	9,300
85.0	36.0	65.3	8,400
90.0	30.8	57.6	7,700

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
<b>110 ft Boom</b>			
55.0	62.6	104.5	15,900 *
60.0	59.6	101.7	14,300
65.0	56.5	98.5	12,600
70.0	53.3	94.9	11,200
75.0	50.0	90.9	9,900
80.0	46.5	86.4	9,000
85.0	42.7	81.2	8,200
90.0	38.7	75.3	7,300
95.0	34.3	68.4	6,600
<b>120 ft Boom</b>			
60.0	62.4	113.1	13,900 *
65.0	59.7	110.3	12,600
70.0	56.8	107.2	11,200
75.0	53.9	103.7	9,900
80.0	50.9	99.8	9,000
85.0	47.7	95.4	8,200
90.0	44.4	90.5	7,300
95.0	40.8	85.0	6,600
100.0	37.0	78.7	6,000
105.0	32.8	71.4	5,500