



Clamshell Capacities

43,600 lb Crane Counterweight
Extended Position Crawlers
360 Degree Rating

11000-1

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.
- The LMI system does not correspond to these appended rated loads; therefore, use extreme caution when operating as a clamshell.
- Always refer to operator manual for operating guidelines.
- Jib installation is prohibited.
- Limit on clamshell bucket weight is 4,600 lb.

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 20 ft 7 in crawlers, 36 in treads, 12 parts of boom hoist reeving, 43,600 lb crane counterweight.

Hoist Reeving for Main Boom Loads

No. of Parts of Line	1
Maximum Loads (lb)	22,000

Assembling the Counterweight
43,600 lb counterweight (No. 1 - No. 3)
Without carbody weight

No. 2	No. 1	No. 3
<u>Counterweights</u>		

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)
40 ft Boom			
22	63.7	41.3	22,000 *
24	60.5	40.2	22,000 *
26	57.1	39.0	22,000 *
28	53.5	37.5	22,000 *
30	49.8	35.9	22,000 *
32	45.9	34.0	22,000 *
34	41.7	31.8	21,400 *
36	37.0	29.3	20,200 *
38	31.8	26.2	19,200 *
40	25.7	22.4	18,200 *
50 ft Boom			
26	64.3	50.5	22,000 *
28	61.7	49.5	22,000 *
30	59.0	48.3	22,000 *
32	56.3	47.0	22,000 *
34	53.5	45.5	21,400 *
36	50.5	43.9	20,200 *
38	47.4	42.1	19,200 *
40	44.2	40.1	18,200 *
42	40.7	37.8	17,300 *
44	37.0	35.3	16,500 *
46	32.9	32.3	15,800 *
48	28.3	28.8	15,200 *
60 ft Boom			
30	64.6	59.7	22,000 *
32	62.5	58.7	22,000 *
34	60.3	57.5	21,400 *
36	58.1	56.3	20,200 *
38	55.8	55.0	19,200 *
40	53.4	53.5	18,200 *
42	51.0	51.9	17,300 *
44	48.4	50.2	16,500 *
46	45.8	48.3	15,800 *
48	43.0	46.2	15,200 *
50	40.1	43.9	14,600 *
52	37.0	41.3	14,000 *
54	33.6	38.4	13,500 *
56	29.9	35.1	13,000 *
58	25.7	31.1	12,500 *

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
70 ft Boom			
34	64.9	68.9	21,400 *
36	63.1	67.9	20,200 *
38	61.2	66.8	19,200 *
40	59.3	65.6	18,200 *
42	57.4	64.3	17,300 *
44	55.4	63.0	16,500 *
46	53.4	61.5	15,800 *
48	51.3	59.9	15,200 *
50	49.1	58.2	14,600 *
52	46.9	56.4	14,000 *
54	44.6	54.4	13,500 *
56	42.2	52.2	13,000 *
58	39.6	49.9	12,500 *
60	37.0	47.3	12,100 *
62	34.1	44.4	11,700 *
64	31.0	41.2	11,400 *
66	27.6	37.6	11,000 *
80 ft Boom			
38	65.1	78.0	19,200 *
40	63.5	77.1	18,200 *
42	61.9	76.0	17,300 *
44	60.2	74.9	16,500 *
46	58.6	73.7	15,800 *
48	56.9	72.4	15,200 *
50	55.1	71.0	14,600 *
52	53.3	69.5	14,000 *
54	51.5	67.9	13,500 *
56	49.6	66.3	13,000 *
58	47.7	64.5	12,500 *
60	45.7	62.6	12,100 *
62	43.7	60.5	11,700 *
64	41.5	58.3	11,400 *
66	39.3	55.9	11,000 *
68	37.0	53.3	10,700 *
70	34.5	50.4	10,400 *
72	31.8	47.3	10,100 *
74	28.9	43.8	9,800 *
76	25.7	39.9	9,400 *

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
90 ft Boom			
42	65.2	87.2	17,300 *
44	63.8	86.2	16,500 *
46	62.4	85.2	15,800 *
48	60.9	84.1	15,200 *
50	59.5	82.9	14,600 *
52	58.0	81.7	14,000 *
54	56.4	80.4	13,500 *
56	54.9	79.0	13,000 *
58	53.3	77.5	12,500 *
60	51.7	76.0	12,100 *
62	50.0	74.3	11,700 *
64	48.3	72.5	11,400 *
66	46.6	70.7	11,000 *
68	44.8	68.7	10,700 *
70	43.0	66.6	10,400 *
72	41.0	64.3	10,100 *
74	39.0	61.9	9,700
76	36.9	59.3	9,200
78	34.7	56.5	9,000
80	32.4	53.4	8,500
82	29.9	50.0	8,300
84	27.2	46.3	7,900



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100 ft Boom			
46	65.4	96.4	15,800 *
48	64.1	95.4	15,200 *
50	62.8	94.4	14,600 *
52	61.5	93.3	14,000 *
54	60.2	92.2	13,500 *
56	58.8	91.0	13,000 *
58	57.5	89.7	12,500 *
60	56.1	88.4	12,100 *
62	54.7	87.0	11,700 *
64	53.3	85.5	11,400 *
66	51.8	84.0	11,000 *
68	50.4	82.3	10,700 *
70	48.8	80.6	10,300
72	47.3	78.8	9,900
74	45.7	76.8	9,400
76	44.1	74.8	9,000
78	42.4	72.6	8,800
80	40.6	70.3	8,300
82	38.8	67.9	8,100
84	36.9	65.3	7,700
86	35.0	62.5	7,400
88	32.9	59.5	7,200
90	30.7	56.2	7,000
92	28.3	52.6	6,800
94	25.8	48.6	6,600

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
110 ft Boom			
56	62.0	102.5	11,900 *
58	60.8	101.4	11,700 *
60	59.6	100.3	11,600 *
62	58.3	99.0	11,300 *
64	57.1	97.8	11,100 *
66	55.8	96.4	10,800 *
68	54.6	95.0	10,400 *
70	53.3	93.5	10,100
72	52.0	92.0	9,700
74	50.6	90.3	9,300
76	49.2	88.6	8,900
78	47.8	86.8	8,500
80	46.4	85.0	8,200
82	45.0	83.0	7,900
84	43.4	80.9	7,500
86	41.9	78.7	7,200
88	40.3	76.4	7,000
90	38.6	73.9	6,800
92	36.9	71.3	6,600
94	35.1	68.5	6,400
96	33.3	65.5	6,200
98	31.3	62.3	5,900
100	29.2	58.8	5,700
102	27.0	55.0	5,500
104	24.5	50.8	5,300

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lb)
120 ft Boom			
56	64.5	113.8	11,400 *
58	63.4	112.8	11,300 *
60	62.3	111.7	11,200 *
62	61.3	110.6	11,000 *
64	60.2	109.5	10,800 *
66	59.0	108.3	10,600 *
68	57.9	107.1	10,200 *
70	56.8	105.8	9,900
72	55.6	104.4	9,500
74	54.5	103.0	9,100
76	53.3	101.5	8,800
78	52.1	100.0	8,400
80	50.8	98.4	8,100
82	49.6	98.4	7,700
84	48.3	96.7	7,400
86	47.0	94.9	7,100
88	45.7	93.1	6,800
90	44.3	91.1	6,600
92	42.9	87.0	6,400
94	41.5	84.7	6,200
96	40.0	82.4	6,000
98	38.5	79.9	5,700
100	36.9	77.3	5,500
102	35.3	74.5	5,300
104	33.6	71.6	5,100
106	31.8	68.4	5,000

FOR REFERENCE