



Liftcrane Boom Capacities

22,050 LB. Crane Counterweight
Clamshell Crawler Crane
Extended Position Crawlers
360 Degree Rating



12000 SERIES 1

LIFTING CAPACITIES:

1. 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).
2. Capacities do not exceed 75% of minimum tipping loads. Capacities based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
3. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine capacity.
4. Do not attempt to lift where no radius on load chart is listed as crane may tip or collapse.
5. 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.
6. 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.
7. Least stable position is over the side.
8. Boom point elevation is vertical distance from ground level to centerline of boom point shaft.
9. 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.
10. Machine travel with load (pick and carry).
 - A. Travel with crane upperworks in-line with crawlers. Grade in any direction must not exceed 1 percent (0.5 degrees).
 - B. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom, jib and rigging.
11. Jib installation is prohibited.

OPERATING CONDITION:

1. The machine must be reeved and set-up as stated in the Operators 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 operators manual for operating guidelines.

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

2. Front and rear load hoist drum wire rope: 26 mm, 6 x 29, FI, IWRC C/O, Minimum breaking strength: 120,000 lbs. Front Drum: 853 feet, Rear Drum: 754 feet.
3. Boom hoist wire rope: 508 feet, 20 mm, 6 x 31, WS, IWRC O/O, Minimum breaking strength: 73,700 lbs.
4. Machine equipped with 22 ft. 2 in. crawlers, 36 in. treads, 10 parts of boom hoist reeving, 22,050 lbs. crane counterweight.

Hoist Reeving for Main Boom Loads

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

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 (lbs)
50 Ft. Boom			
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
60 Ft. Boom			
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
70 Ft. Boom			
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
80 Ft. Boom			
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

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
90 Ft. Boom			
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
100 Ft. Boom			
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
110 Ft. Boom			
56	62.0	103.9	11,900 *
58	60.8	102.8	11,700 *
60	59.6	101.7	11,600 *
62	58.3	100.4	11,300 *
64	57.1	99.2	11,100 *
66	55.8	97.8	10,800 *
68	54.6	96.4	10,400 *
70	53.3	94.9	10,100
72	52.0	93.4	9,700
74	50.6	91.8	9,300
76	49.2	90.0	8,900
78	47.8	88.3	8,500
80	46.4	86.4	8,200
82	45.0	84.4	7,900
84	43.4	82.3	7,500
86	41.9	80.1	7,200
88	40.3	77.8	7,000
90	38.6	75.3	6,800
92	36.9	72.7	6,600
94	35.1	69.9	6,400
96	33.3	66.9	6,200
98	31.3	63.7	5,900
100	29.2	60.2	5,700
102	27.0	56.4	5,500
104	24.5	52.2	5,300

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
120 Ft. Boom			
56	64.5	115.2	11,400 *
58	63.4	114.2	11,300 *
60	62.3	113.1	11,200 *
62	61.3	112.1	11,000 *
64	60.2	110.9	10,800 *
66	59.0	109.7	10,600 *
68	57.9	108.5	10,200 *
70	56.8	107.2	9,900
72	55.6	105.8	9,500
74	54.5	104.4	9,100
76	53.3	102.9	8,800
78	52.1	101.4	8,400
80	50.8	99.8	8,100
82	49.6	98.1	7,700
84	48.3	96.3	7,400
86	47.0	94.5	7,100
88	45.7	92.5	6,800
90	44.3	90.5	6,600
92	42.9	88.4	6,400
94	41.5	86.1	6,200
96	40.0	83.8	6,000
98	38.5	81.3	5,700
100	36.9	78.7	5,500
102	35.3	75.9	5,300
104	33.6	73.0	5,100
106	31.8	69.8	5,000