



Liftcrane Boom Capacities

27,560 LB. Crane Counterweight
Clamshell Crawler Crane
Extended Position Crawlers
360 Degree Rating

8500 SERIES 2

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 66% 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	
70 ft.	
Clam bucket on ground at start	

2. Front and rear load hoist drum wire rope: 7/8 inch, 6 x 25, FI, IWRC C/O, Minimum breaking strength: 79,586 lbs. Front Drum: 869 feet, Rear Drum: 673 feet.
3. Boom hoist wire rope: 492 feet, 5/8 inch, 6 x 31, WS, IWRC O/O, Minimum breaking strength: 41,234 lbs.
4. Machine equipped with 19 ft. 8 in. crawlers, 36 in. treads, 12 parts of boom hoist reeving, 27,560 lbs. crane counterweight.

Hoist Reeving for Main Boom Loads

No. of Parts of Line	1
Maximum Loads (lbs)	16,000

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)
40 Ft. Boom			
22	63.6	41.3	16,000 *
24	60.3	40.2	16,000 *
26	56.9	38.9	16,000 *
28	53.4	37.5	16,000 *
30	49.7	35.8	16,000 *
32	45.7	33.9	16,000 *
34	41.5	31.8	16,000 *
36	36.9	29.2	16,000 *
38	31.6	26.2	16,000 *
40	25.5	22.4	16,000 *
50 Ft. Boom			
26	64.2	50.5	16,000 *
28	61.6	49.4	16,000 *
30	58.9	48.2	16,000 *
32	56.2	46.9	16,000 *
34	53.3	45.5	16,000 *
36	50.4	43.8	16,000 *
38	47.3	42.0	16,000 *
40	44.1	40.0	16,000 *
42	40.6	37.8	16,000 *
44	36.9	35.2	16,000 *
46	32.8	32.3	16,000 *
48	28.2	28.8	15,400 *
60 Ft. Boom			
30	64.5	59.6	16,000 *
32	62.4	58.6	16,000 *
34	60.2	57.5	16,000 *
36	58.0	56.3	16,000 *
38	55.7	54.9	16,000 *
40	53.3	53.5	16,000 *
42	50.9	50.1	16,000 *
44	48.3	49.8	16,000 *
46	45.7	48.2	16,000 *
48	42.9	46.1	15,200 *
50	40.0	43.8	14,500 *
52	36.9	41.2	13,600
54	33.5	38.3	13,000
56	29.8	35.0	12,300
58	25.6	31.1	11,900

Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	360° Rated Load (lbs)
70 Ft. Boom			
34	64.8	68.8	16,000 *
36	63.0	67.8	16,000 *
38	61.1	66.7	16,000 *
40	59.2	65.5	16,000 *
42	57.3	64.3	16,000 *
44	55.3	62.9	15,800 *
46	53.3	61.5	15,600 *
48	51.2	59.9	15,200 *
50	49.0	58.2	14,300 *
52	46.8	56.3	13,600 *
54	44.5	54.3	13,000 *
56	42.1	52.2	12,300 *
58	39.6	49.9	11,600 *
60	36.9	47.2	11,200 *
62	34.0	44.3	10,800 *
64	30.9	41.1	10,100 *
66	27.5	37.5	9,700 *