



# Clamshell Capacities

**22,000 lb Crane Counterweight  
 Crawler Crane on a Barge  
 0 Degree thru 1 Degree Crane List  
 1 Degree thru 2 Degree Crane List  
 2 Degree thru 3 Degree Crane List  
 Extended Position Crawlers  
 No Travel - 360 Degree Rating**

**12000**

**LIFTING CAPACITIES:**

1. Lifting capacities are for a crawler crane when operating on a barge. Machine shall be positively secured to prevent shifting with machine list not to exceed degrees noted. The user must limit rated loads to allow for adverse conditions (such as wind, side loads, pendulum action, jerking or sudden stopping of loads, and inexperience of personnel).
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, slings and other lifting devices are part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
6. Do not attempt to cast the bucket while swinging or diagonal draw - cutting.
7. 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.
8. The boom should be erected over the front of the crawlers, not laterally.
9. Working area shall be inshore and smooth water.
10. Least stable position is over the side.
11. 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.
12. Machine travel with load (pick and carry) is not permitted.
13. Jib installation is prohibited when crane is on a barge.

Hoist Reeving for Main Boom Loads

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

**OPERATING CONDITION:**

1. 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 in fully raised position for all operation.
  - Crawlers must be fully extended and be locked in position.
  - Crane shall be positively secured to prevent shifting.
  - Refer to operator manual for operating guidelines.

<b>Maximum Boom Lengths Lifted Unassisted</b>
Over End of Crawlers
100 ft
Clam bucket on barge deck at start.

2. See Operator Manual Section 6 for Wire Rope Specifications.
3. Machine equipped with 22 ft 2 in crawlers, 36 in treads, 10 parts of boom hoist reeving and 22,000 lb crane counterweight.

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

# Manitowoc Cranes

Manitowoc, Wisconsin 54220 U.S.A.



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Load Radius (ft)	Boom Angle (deg)	Boom Point Elev. (ft)	0 Degree Thru 1 Degree Crane List	1 Degree Thru 2 Degree Crane List	2 Degree Thru 3 Degree Crane List	Load Radius (ft)
<b>50 ft Boom</b>						
26.0	65.5	52.4	25,000 *	25,000 *	25,000 *	26.0
28.0	63.0	51.3	25,000 *	25,000 *	25,000 *	28.0
30.0	60.3	50.2	25,000 *	25,000 *	25,000 *	30.0
32.0	57.6	49.0	25,000 *	25,000 *	25,000 *	32.0
34.0	54.8	47.6	25,000 *	25,000 *	25,000 *	34.0
36.0	51.9	46.0	25,000 *	25,000 *	25,000 *	36.0
38.0	48.9	44.3	25,000 *	25,000 *	25,000 *	38.0
40.0	45.7	42.4	25,000 *	25,000 *	23,000 *	40.0
45.0	36.9	36.5	22,100 *	20,400 *	18,000 *	45.0
<b>60 ft Boom</b>						
30.0	65.7	61.5	20,000 *	20,000 *	20,000 *	30.0
32.0	63.5	60.5	20,000 *	20,000 *	20,000 *	32.0
34.0	61.4	59.5	20,000 *	20,000 *	20,000 *	34.0
36.0	59.2	58.3	20,000 *	20,000 *	20,000 *	36.0
38.0	56.9	57.0	20,000 *	20,000 *	20,000 *	38.0
40.0	54.5	55.6	20,000 *	20,000 *	20,000 *	40.0
45.0	48.4	51.5	20,000 *	18,400 *	16,200 *	45.0
50.0	41.5	46.3	19,000 *	17,300 *	15,300 *	50.0
55.0	33.5	39.6	16,700 *	15,400 *	13,600 *	55.0
<b>70 ft Boom</b>						
34.0	65.8	70.7	16,700 *	15,300 *	13,500 *	34.0
36.0	64.0	69.7	16,700 *	15,300 *	13,500 *	36.0
38.0	62.1	68.7	16,700 *	15,300 *	13,500 *	38.0
40.0	60.2	67.5	16,700 *	15,300 *	13,500 *	40.0
45.0	55.4	64.3	16,700 *	15,300 *	13,500 *	45.0
50.0	50.2	60.4	16,700 *	15,300 *	13,500 *	50.0
55.0	44.5	55.7	16,300 *	15,000 *	13,100 *	55.0
60.0	38.2	49.8	14,500 *	13,200 *	11,600 *	60.0
<b>80 ft Boom</b>						
40.0	64.3	78.9	15,600 *	14,200 *	12,500 *	40.0
45.0	60.2	76.2	14,300 *	13,100 *	11,500 *	45.0
50.0	56.0	73.0	13,000 *	11,800 *	10,400 *	50.0
55.0	51.5	69.2	12,100 *	11,100 *	9,700 *	55.0
60.0	46.7	64.8	11,400 *	10,400 *	9,100 *	60.0
65.0	41.5	59.5	11,000 *	10,000 *	8,700 *	65.0
70.0	35.6	53.1	10,600 *	9,700 *	8,500 *	70.0



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<b>90 ft Boom</b>						
45.0	63.8	87.6	9,700 *	8,800 *	7,600 *	45.0
50.0	60.2	84.9	9,000 *	8,200 *	7,100 *	50.0
55.0	56.4	81.7	8,300 *	7,600 *	6,600 *	55.0
60.0	52.5	78.0	7,900 *	7,200 *	6,200 *	60.0
65.0	48.3	73.8	7,700 *	6,900 *	6,000 *	65.0
70.0	43.8	68.9	7,400 *	6,700 *	5,800 *	70.0
75.0	39.0	63.1	7,200 *	6,500 *	5,600 *	75.0
80.0	33.5	56.2	7,000 *	6,400 *	5,400 *	80.0
<b>100 ft Boom</b>						
50.0	63.4	96.3	6,800 *	6,000 *	5,100 *	50.0
55.0	60.2	93.5	6,100 *	5,600 *	4,700 *	55.0
60.0	56.8	90.4	5,700 *	5,100 *	4,400 *	60.0
65.0	53.3	86.8	5,500 *	4,900 *	4,200 *	65.0
70.0	49.6	82.8	5,200 *	4,700 *	4,000 *	70.0
75.0	45.7	78.1	5,000 *	4,500 *	3,800 *	75.0
80.0	41.5	72.8	4,800 *	4,300 *	3,600 *	80.0
85.0	36.9	66.5	4,600 *	4,100 *	3,400 *	85.0
90.0	31.7	59.0	4,400 *	3,900 *	3,200 *	90.0

REFERENCE ONLY