

Duty Cycle Capacities

Boom No. 83
53,000 Lb. Counterweight
23 Ft. 6 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List
360 Degree Rating - Limited Duty

LIFTING CAPACITIES: Capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 67.5% of a static tipping load. Capacities are based on tipping, structural competence(*), operating speeds and other factors.

Duty cycle capacities shown are intended for limited duration applications. Continuous operation at these capacities may reduce component life.

Weight of bucket is considered part of load. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface, machine list not to exceed degrees noted and gantry up. Refer to boom rigging **No. A06546** and Wire Rope Specification chart **No. 8474-C**. Crane operator judgment must be used to allow for adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation at barge deck 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 operating radius.

MACHINE EQUIPMENT: Machine equipped with 23 Ft. 6 in. extendible crawlers, 39-3/8 in. treads, 9 Ft. 7 in. gantry, 25 Ft. live mast, 12 part boom hoist reeving, two 1-1/2 in. pendants and 53,000 Lb. counterweight.

Upper Boom Point Deduct

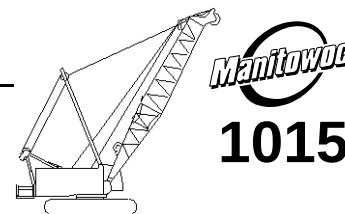
Deduct 1,300 Lbs. from capacities when upper boom point is attached.

Auxiliary Drum Deduct

Deduct 2,000 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
50 Ft. Boom			
30	64.1	65,500 *	57,200 *
35	57.4	61,900 *	56,100 *
40	50.0	52,100	48,500
45	41.6	44,300	41,600
50	31.2	38,100	36,100
60 Ft. Boom			
30	68.8	65,100 *	56,700 *
35	63.4	61,900 *	56,000 *
40	57.8	51,900	47,600
45	51.8	44,100	40,900
50	45.2	38,100	35,500
55	37.6	33,200	31,300
60	28.1	29,200	27,700

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
70 Ft. Boom			
30	72.0	64,900 *	56,400 *
35	67.5	61,900	55,200
40	62.9	51,600	46,700
45	58.1	43,900	40,100
50	53.1	37,900	35,000
55	47.6	33,100	30,800
60	41.5	29,200	27,300
65	34.5	25,900	24,400
70	25.9	23,000	21,900

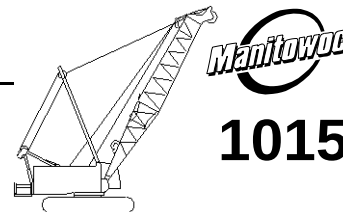


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80 Ft. Boom			
25	78.0	64,300 *	55,800 *
30	74.3	64,300 *	55,800 *
35	70.5	60,900	53,600
40	66.6	50,700	45,300
45	62.6	43,100	38,900
50	58.4	37,200	33,900
55	54.0	32,500	29,800
60	49.3	28,600	26,500
65	44.2	25,400	23,600
70	38.6	22,600	21,200
75	32.1	20,300	19,100
80	24.0	18,200	17,200
90 Ft. Boom			
25	79.4	62,600 *	55,500 *
30	76.1	60,900 *	55,300 *
35	72.8	59,200 *	52,300
40	69.4	50,200	44,300
45	65.9	42,700	38,100
50	62.3	36,900	33,200
55	58.6	32,200	29,200
60	54.7	28,300	25,900
65	50.6	25,100	23,100
70	46.2	22,400	20,700
75	41.5	20,100	18,600
80	36.2	18,000	16,800
85	30.1	16,200	15,200
90	22.5	14,600	13,800
100 Ft. Boom			
25	80.4	57,500 *	51,900 *
30	77.5	56,000 *	50,600 *
35	74.5	54,600 *	49,400 *
40	71.5	49,700	43,200
45	68.4	42,200	37,200
50	65.3	36,400	32,400
55	62.1	31,700	28,500
60	58.7	27,900	25,200
65	55.2	24,700	22,400
70	51.6	22,000	20,100
75	47.8	19,700	18,000
80	43.7	17,700	16,200
85	39.2	15,900	14,700
90	34.2	14,300	13,300
95	28.5	12,900	12,000
100	21.3	11,600	10,900

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
110 Ft. Boom			
25	81.3	41,800 *	37,700 *
30	78.7	40,200 *	36,400 *
35	76.0	38,700 *	35,100 *
40	73.3	37,300 *	33,800 *
45	70.5	35,900 *	32,600 *
50	67.7	34,600 *	31,500 *
55	64.8	31,800	28,300
60	61.9	28,000	25,100
65	58.8	24,900	22,400
70	55.7	22,200	20,100
75	52.4	19,900	18,100
80	49.0	17,900	16,300
85	45.4	16,100	14,800
90	41.5	14,600	13,400
95	37.2	13,200	12,100
100	32.5	11,900	11,000
105	27.1	10,800	10,000
110	20.2	9,700	9,100
120 Ft. Boom			
25	82.1	40,600 *	36,700 *
30	79.6	39,000 *	35,300 *
35	77.2	37,400 *	33,900 *
40	74.7	35,900 *	32,600 *
45	72.2	34,500 *	31,400 *
50	69.7	33,100 *	30,200 *
55	67.1	31,400	27,600
60	64.4	27,600	24,400
65	61.7	24,500	21,800
70	58.9	21,800	19,500
75	56.1	19,500	17,500
80	53.1	17,500	15,800
85	50.0	15,700	14,200
90	46.7	14,200	12,900
95	43.3	12,800	11,600
100	39.6	11,600	10,500
105	35.6	10,400	9,500
110	31.1	9,400	8,600
115	25.8	8,400	7,800
120	19.3	7,600	7,000

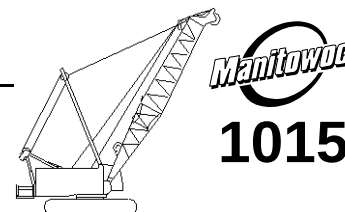

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130 Ft. Boom			
25	82.7	39,500 *	35,700 *
30	80.4	37,900 *	34,300 *
35	78.2	36,300 *	32,900 *
40	75.9	34,700 *	31,500 *
45	73.6	33,300 *	30,300 *
50	71.3	31,900 *	29,000 *
55	68.9	30,600 *	26,900
60	66.5	27,200	23,800
65	64.1	24,000	21,200
70	61.6	21,400	18,900
75	59.0	19,100	17,000
80	56.4	17,100	15,300
85	53.6	15,400	13,800
90	50.8	13,800	12,400
95	47.9	12,500	11,200
100	44.8	11,200	10,100
105	41.5	10,100	9,100
110	37.9	9,100	8,200
115	34.1	8,200	7,400
120	29.8	7,300	6,600
125	24.8	6,500	5,900
130	18.5	5,800	5,300

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
140 Ft. Boom			
30	81.1	36,700 *	33,300 *
35	79.0	35,100 *	31,800 *
40	76.9	33,500 *	30,400 *
45	74.8	32,000 *	29,100 *
50	72.7	30,600 *	27,800 *
55	70.5	29,200 *	26,200
60	68.3	26,700	23,100
65	66.1	23,600	20,500
70	63.8	20,900	18,300
75	61.5	18,700	16,400
80	59.1	16,700	14,700
85	56.6	15,000	13,200
90	54.1	13,400	11,900
95	51.5	12,000	10,700
100	48.8	10,800	9,600
105	46.0	9,700	8,600
110	43.0	8,700	7,700
115	39.9	7,800	6,900
120	36.5	6,900	6,100
125	32.8	6,100	5,400
130	28.6	5,400	4,800
135	23.8	4,700	4,200
140	17.8	4,100	



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150 Ft. Boom			
30	81.7	27,200 *	23,800 *
35	79.8	26,300 *	23,000 *
40	77.8	25,400 *	22,300 *
45	75.9	24,600 *	21,600 *
50	73.9	23,800 *	20,800 *
55	71.9	23,000 *	20,200 *
60	69.8	22,200 *	19,500 *
65	67.8	21,400 *	18,800 *
70	65.7	20,700 *	18,100
75	63.5	18,600	16,200
80	61.4	16,700	14,600
85	59.1	14,900	13,100
90	56.9	13,400	11,800
95	54.5	12,100	10,600
100	52.1	10,800	9,500
105	49.6	9,700	8,500
110	47.0	8,700	7,700
115	44.3	7,800	6,900
120	41.5	7,000	6,100
125	38.4	6,200	5,400
130	35.2	5,500	4,800
135	31.6	4,800	4,200
140	27.6	4,200	

Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
160 Ft. Boom			
30	82.2	26,300 *	23,000 *
35	80.4	25,300 *	22,200 *
40	78.6	24,400 *	21,400 *
45	76.8	23,500 *	20,600 *
50	74.9	22,700 *	19,900 *
55	73.0	21,800 *	19,100 *
60	71.1	21,000 *	18,400 *
65	69.2	20,200 *	17,700 *
70	67.3	19,400 *	17,000 *
75	65.3	18,200	15,700
80	63.3	16,200	14,000
85	61.3	14,500	12,600
90	59.2	13,000	11,200
95	57.1	11,600	10,100
100	54.9	10,400	9,000
105	52.6	9,300	8,100
110	50.3	8,300	7,200
115	47.9	7,400	6,400
120	45.4	6,600	5,600
125	42.8	5,800	5,000
130	40.1	5,100	4,300
135	37.1	4,500	