

Duty Cycle Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 1 Degree and
1 Degree thru 3 Degree Machine List
360 Degree Rating - Limited Duty

LIFTING CAPACITIES: Capacities for various boom lengths and operating radii are for freely suspended loads and are based on 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 with turntable bearing properly supported 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 top of turntable bearing to center of vertical hoist line or load block. 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 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

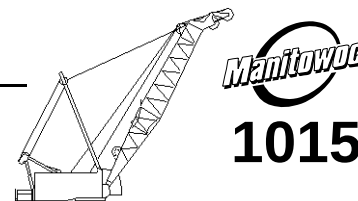
Deduct 1,300 Lbs. from capacities when upper boom point is attached.

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	54,000	48,600
45	41.6	47,800	42,800
50	31.2	42,900	38,100
60 Ft. Boom			
30	68.8	65,100	56,700
35	63.4	61,900	56,000
40	57.8	54,000	48,600
45	51.8	47,800	42,800
50	45.2	42,900	38,100
55	37.6	38,800	34,300
60	28.1	35,400	31,100

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	56,000
40	62.9	54,000	48,600
45	58.1	47,800	42,800
50	53.1	42,900	38,100
55	47.6	38,800	34,300
60	41.5	35,500	31,100
65	34.5	32,600	28,400
70	25.9	30,100	26,100

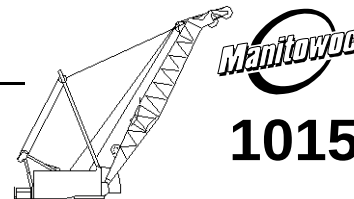


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80 Ft. Boom			
25	78.0	64,300	55,800
30	74.3	64,300	55,800
35	70.5	61,800	55,800
40	66.6	53,900	48,300
45	62.6	47,700	42,500
50	58.4	42,800	37,900
55	54.0	38,800	34,100
60	49.3	35,400	30,900
65	44.2	32,500	28,300
70	38.6	30,100	25,900
75	32.1	28,000	23,900
80	24.0	26,100	22,200
90 Ft. Boom			
25	79.4	62,600	55,500
30	76.1	60,900	55,300
35	72.8	59,200	53,900
40	69.4	53,800	48,200
45	65.9	47,700	42,400
50	62.3	42,800	37,800
55	58.6	38,700	34,000
60	54.7	35,400	30,900
65	50.6	32,500	28,200
70	46.2	30,100	25,900
75	41.5	28,000	23,900
80	36.2	26,100	22,100
85	30.1	24,500	20,600
90	22.5	23,000	19,200

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
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	53,200	48,100
45	68.4	47,600	42,300
50	65.3	42,700	37,700
55	62.1	38,700	33,900
60	58.7	35,300	30,700
65	55.2	32,500	28,000
70	51.6	30,000	25,700
75	47.8	27,900	23,700
80	43.7	26,000	22,000
85	39.2	24,400	20,400
90	34.2	23,000	19,100
95	28.5	21,600	17,800
100	21.3	18,600	16,700
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	33,400	30,400
60	61.9	32,200	29,300
65	58.8	31,000	28,100
70	55.7	29,900	25,800
75	52.4	27,900	23,900
80	49.0	26,100	22,100
85	45.4	24,500	20,600
90	41.5	23,000	19,200
95	37.2	21,700	18,000
100	32.5	20,500	16,900
105	27.1	19,400	15,800
110	20.2	15,500	14,900

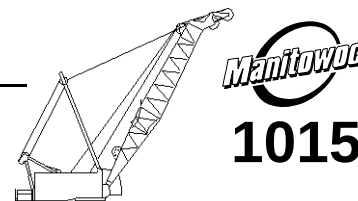

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Oper. Radius Feet	Boom Angle Deg.	0 Degree Thru 1 Degree Machine List Boom Capacity Pounds	1 Degree Thru 3 Degree Machine List Boom Capacity Pounds
120 Ft. Boom			
25	82.1	40,600	36,700
30	79.6	39,000	35,300
35	77.2	37,400	33,900
40	74.7	35,900	32,600
45	72.2	34,500	31,400
50	69.7	33,100	30,200
55	67.1	31,800	29,000
60	64.4	30,600	27,900
65	61.7	29,400	26,800
70	58.9	28,200	25,700
75	56.1	27,100	23,700
80	53.1	26,000	22,000
85	50.0	24,400	20,400
90	46.7	23,000	19,100
95	43.3	21,700	17,800
100	39.6	20,500	16,700
105	35.6	19,300	15,700
110	31.1	17,400	14,800
115	25.8	15,500	14,000
120	19.3	12,000	11,600
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	27,800
60	66.5	29,300	26,700
65	64.1	28,000	25,600
70	61.6	26,900	24,500
75	59.0	25,700	23,500
80	56.4	24,700	21,800
85	53.6	23,600	20,300
90	50.8	22,600	18,900
95	47.9	21,600	17,700
100	44.8	20,400	16,600
105	41.5	18,900	15,600
110	37.9	17,000	14,700
115	34.1	15,300	13,900
120	29.8	13,700	13,100
125	24.8	12,200	11,800
130	18.5	9,100	8,800

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	26,600
60	68.3	27,900	25,500
65	66.1	26,700	24,300
70	63.8	25,500	23,300
75	61.5	24,300	22,200
80	59.1	23,200	21,200
85	56.6	22,200	20,100
90	54.1	21,100	18,800
95	51.5	20,200	17,600
100	48.8	19,200	16,400
105	46.0	18,200	15,400
110	43.0	16,400	14,500
115	39.9	14,800	13,700
120	36.5	13,300	12,600
125	32.8	11,900	11,300
130	28.6	10,500	10,100
135	23.8	9,200	8,900
140	17.8	6,400	6,200



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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	18,200
75	63.5	20,000	17,600
80	61.4	19,300	16,900
85	59.1	18,600	16,300
90	56.9	18,000	15,800
95	54.5	17,300	15,200
100	52.1	16,700	14,700
105	49.6	16,100	14,100
110	47.0	15,500	13,600
115	44.3	14,800	13,100
120	41.5	13,400	12,500
125	38.4	12,100	11,400
130	35.2	10,800	10,200
135	31.6	9,600	9,100
140	27.6	8,400	8,000
145	23.0	7,300	7,000
150	17.1	4,800	4,600

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	18,700	16,400
80	63.3	18,000	15,700
85	61.3	17,200	15,100
90	59.2	16,600	14,500
95	57.1	15,900	13,900
100	54.9	15,200	13,300
105	52.6	14,600	12,700
110	50.3	14,000	12,200
115	47.9	13,300	11,600
120	45.4	12,700	11,100
125	42.8	11,400	10,600
130	40.1	10,200	9,500
135	37.1	9,100	8,500
140	34.0	8,000	7,500
145	30.5	7,000	6,500
150	26.7	6,000	5,600
155	22.2	5,000	4,700