

1015

Duty Cycle Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount - Land Based
0 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.

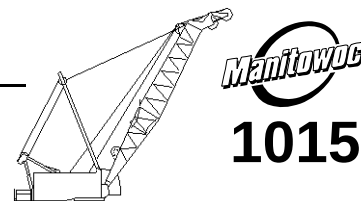
Auxiliary Drum Deduct

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

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
50 Ft. Boom		
30	64.1	66,000
35	57.4	65,900
40	50.0	57,600
45	41.6	51,200
50	31.2	46,100
60 Ft. Boom		
30	68.8	66,000
35	63.4	65,900
40	57.8	57,600
45	51.8	51,200
50	45.2	46,100
55	37.6	41,900
60	28.1	38,400

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
70 Ft. Boom		
30	72.0	66,000
35	67.5	65,900
40	62.9	57,600
45	58.1	51,200
50	53.1	46,100
55	47.6	41,900
60	41.5	38,400
65	34.5	35,400
70	25.9	32,900
80 Ft. Boom		
25	78.0	66,000
30	74.3	66,000
35	70.5	65,900
40	66.6	57,600
45	62.6	51,200
50	58.4	46,100
55	54.0	41,900
60	49.3	38,400
65	44.2	35,400
70	38.6	32,900
75	32.1	30,700
80	24.0	28,800

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
90 Ft. Boom		
25	79.4	65,900
30	76.1	64,100
35	72.8	62,300
40	69.4	57,600
45	65.9	51,200
50	62.3	46,100
55	58.6	41,900
60	54.7	38,400
65	50.6	35,400
70	46.2	32,900
75	41.5	30,700
80	36.2	28,800
85	30.1	27,100
90	22.5	23,800



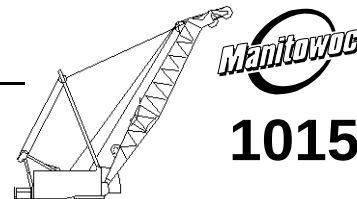
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100 Ft. Boom		
25	80.4	60,800
30	77.5	59,200
35	74.5	57,600
40	71.5	56,100
45	68.4	51,200
50	65.3	46,100
55	62.1	41,900
60	58.7	38,400
65	55.2	35,400
70	51.6	32,900
75	47.8	30,700
80	43.7	28,800
85	39.2	27,100
90	34.2	25,600
95	28.5	23,500
100	21.3	18,800
110 Ft. Boom		
25	81.3	44,100
30	78.7	42,400
35	76.0	40,800
40	73.3	39,300
45	70.5	37,800
50	67.7	36,400
55	64.8	35,100
60	61.9	33,800
65	58.8	32,500
70	55.7	31,400
75	52.4	30,200
80	49.0	28,800
85	45.4	27,100
90	41.5	25,600
95	37.2	24,200
100	32.5	22,200
105	27.1	19,800
110	20.2	15,700

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
120 Ft. Boom		
25	82.1	42,800
30	79.6	41,100
35	77.2	39,400
40	74.7	37,800
45	72.2	36,300
50	69.7	34,800
55	67.1	33,400
60	64.4	32,100
65	61.7	30,800
70	58.9	29,600
75	56.1	28,400
80	53.1	27,300
85	50.0	26,200
90	46.7	25,200
95	43.3	24,100
100	39.6	21,900
105	35.6	19,700
110	31.1	17,700
115	25.8	15,800
120	19.3	12,200
130 Ft. Boom		
25	82.7	41,700
30	80.4	39,900
35	78.2	38,200
40	75.9	36,600
45	73.6	35,000
50	71.3	33,500
55	68.9	32,100
60	66.5	30,700
65	64.1	29,400
70	61.6	28,200
75	59.0	27,000
80	56.4	25,800
85	53.6	24,700
90	50.8	23,700
95	47.9	22,600
100	44.8	21,400
105	41.5	19,400
110	37.9	17,500
115	34.1	15,700
120	29.8	14,000
125	24.8	12,400
130	18.5	9,300

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
140 Ft. Boom		
30	81.1	38,700
35	79.0	37,000
40	76.9	35,300
45	74.8	33,700
50	72.7	32,200
55	70.5	30,700
60	68.3	29,300
65	66.1	28,000
70	63.8	26,700
75	61.5	25,500
80	59.1	24,400
85	56.6	23,200
90	54.1	22,200
95	51.5	21,100
100	48.8	20,100
105	46.0	18,800
110	43.0	16,900
115	39.9	15,200
120	36.5	13,700
125	32.8	12,200
130	28.6	10,800
135	23.8	9,400
140	17.8	6,600
150 Ft. Boom		
30	81.7	29,100
35	79.8	28,200
40	77.8	27,200
45	75.9	26,300
50	73.9	25,400
55	71.9	24,600
60	69.8	23,700
65	67.8	22,900
70	65.7	22,200
75	63.5	21,400
80	61.4	20,600
85	59.1	19,900
90	56.9	19,200
95	54.5	18,500
100	52.1	17,900
105	49.6	17,200
110	47.0	16,500
115	44.3	15,400
120	41.5	13,900
125	38.4	12,400
130	35.2	11,100
135	31.6	9,900
140	27.6	8,700
145	23.0	7,500
150	17.1	4,900


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Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
160 Ft. Boom		
30	82.2	28,100
35	80.4	27,100
40	78.6	26,200
45	76.8	25,200
50	74.9	24,300
55	73.0	23,400
60	71.1	22,500
65	69.2	21,600
70	67.3	20,800
75	65.3	20,000
80	63.3	19,200
85	61.3	18,500
90	59.2	17,700
95	57.1	17,000
100	54.9	16,300
105	52.6	15,600
110	50.3	15,000
115	47.9	14,300
120	45.4	13,300
125	42.8	11,900
130	40.1	10,600
135	37.1	9,400
140	34.0	8,300
145	30.5	7,200
150	26.7	6,200
155	22.2	5,100

Oper. Radius Feet	Boom Angle Deg.	0 Degree Machine List Boom Capacity Pounds
170 Ft. Boom		
30	82.7	27,200
35	81.0	26,200
40	79.3	25,200
45	77.6	24,200
50	75.8	23,200
55	74.1	22,300
60	72.3	21,400
65	70.5	20,500
70	68.7	19,600
75	66.9	18,800
80	65.0	18,000
85	63.1	17,200
90	61.2	16,500
95	59.3	15,700
100	57.3	15,000
105	55.2	14,300
110	53.1	13,600
115	50.9	13,000
120	48.7	12,300
125	46.4	11,300
130	44.0	10,100
135	41.5	8,900
140	38.8	7,900
145	36.0	6,800
150	32.9	5,900
155	29.6	4,900
160	25.8	4,000