

Liftcrane Boom Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are based on structural competence.

Capacities indicated by (b) require 3,900 Lb. minimum weight. Capacities indicated by (c) require 10,000 Lb. minimum weight. Capacities indicated by (d) require 15,000 Lb. minimum weight.

To maintain boom and mast stability at high boom angles, a minimum of 4 parts hoist line is required for capacities denoted by (c) and (d).

Upper boom point operation not allowed on capacities denoted by (b), (c) or (d).

Upper boom point capacity for liftcrane service is 66,000 Lbs. with single part 38 mm whip line. Upper boom point capacity for liftcrane service is 44,000 Lbs. with single part 32 mm whip line or 66,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum equipped for 28 mm wire rope is used, capacity with single part whip line is 33,000 Lbs. or 66,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of upper boom point, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate with turntable bearing properly supported, machine list not to exceed degrees noted and gantry up. Refer to boom rigging **No. A00005** and Wire Rope Specification chart **No. 8503-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as 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. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation is vertical distance from top of turntable bearing to centerline of boom point shaft.

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

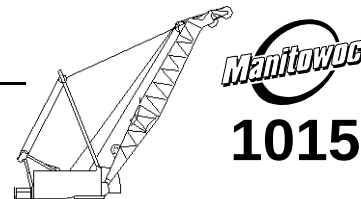
Deduct 1,300 Lbs. from capacities when upper boom point is attached.

Auxiliary Drum Deduct

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

Maximum Boom Lengths Lifted Unassisted

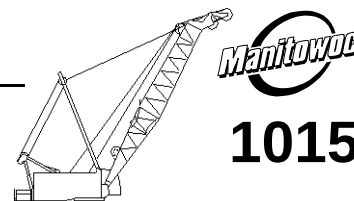
List	Boom Length
0 Degree	(a) 200 Ft.
1 Degree	(a) 200 Ft.
2 Degree	190 Ft.
3 Degree	180 Ft.
Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be attached on 200 Ft. boom. Jib cannot be attached on machine while operating on a barge.	



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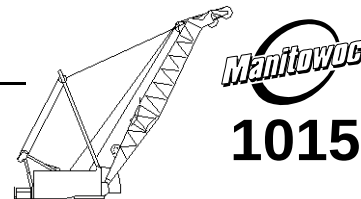
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
50 Ft. Boom							
14	82.0	52.0	264,600 d	245,900 d			14
15	80.8	51.8	252,700 d	243,900 d	235,800 d		15
16	79.6	51.6	250,700 c	242,000 c	234,000 c	225,100 c	16
17	78.5	51.4	248,700 c	240,200 c	227,700 c	214,400 c	17
18	77.3	51.1	244,600 c	230,300 c	216,700 c	204,500 c	18
19	76.1	50.8	232,200 c	219,100 c	206,700 c	195,500 c	19
20	74.9	50.5	220,800 b	208,900 b	197,600 b	187,300 b	20
22	72.5	49.8	201,100 b	191,000 b	181,400 b	172,500 b	22
24	70.0	49.0	184,400 b	175,700 b	167,500 b	159,900 b	24
26	67.5	48.1	170,100	162,600	155,500	148,800	26
28	64.9	47.1	157,700	151,200	145,000	139,100	28
30	62.3	46.0	146,900	141,200	135,700	130,600	30
32	59.6	44.7	137,400	132,300	127,500	122,900	32
34	56.8	43.3	128,900	124,400	120,100	116,000	34
36	53.9	41.8	121,300	117,300	113,500	109,800	36
38	50.9	40.1	111,900	109,400	107,100	104,200	38
40	47.8	38.2	102,700	100,600	98,600	96,800	40
45	38.9	32.3	83,100	81,800	80,600	79,400	45
50	27.6	23.8	62,600	62,000	61,400	60,800	50
60 Ft. Boom							
15	82.4	62.0	254,900 d				15
16	81.4	61.8	253,200 c	244,000 c			16
17	80.4	61.6	251,500 c	239,900 c	223,200 c		17
18	79.4	61.4	244,000 c	227,800 c	212,600 c	199,100 c	18
19	78.5	61.2	231,600 c	216,800 c	202,900 c	190,500 c	19
20	77.5	60.9	220,300 b	206,700 b	194,000 b	182,600 b	20
22	75.5	60.3	200,600 b	189,100 b	178,300 b	168,400 b	22
24	73.5	59.7	184,000 b	174,100 b	164,700 b	156,200 b	24
26	71.4	59.0	169,700	161,200	153,000	145,600	26
28	69.4	58.2	157,400	149,900	142,800	136,200	28
30	67.3	57.3	146,600	140,000	133,700	127,900	30
32	65.2	56.3	137,100	131,200	125,700	120,400	32
34	63.0	55.2	128,700	123,400	118,400	113,800	34
36	60.8	54.0	121,100	116,400	111,900	107,700	36
38	58.5	52.7	114,300	110,100	106,000	102,200	38
40	56.2	51.3	108,100	104,300	100,700	97,200	40
45	50.0	47.2	90,800	88,700	86,800	84,900	45
50	43.2	42.1	75,900	74,500	73,200	71,900	50
55	35.2	35.4	63,400	62,500	61,600	60,800	55
60	24.9	25.8	51,900	51,400	50,900	50,500	60


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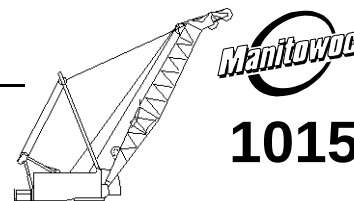
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
70 Ft. Boom							
16	82.6	72.0	255,000 c				16
17	81.8	71.8	253,700 c	237,300 c			17
18	81.0	71.6	243,400 c	225,400 c	208,700 c		18
19	80.1	71.4	231,000 c	214,600 c	199,300 c		19
20	79.3	71.2	219,800 b	204,700 b	190,700 b	178,200 b	20
22	77.6	70.7	200,200 b	187,400 b	175,300 b	164,600 b	22
24	75.9	70.2	183,600 b	172,600 b	162,200 b	152,800 b	24
26	74.2	69.6	169,400	159,800	150,800	142,600	26
28	72.5	68.9	157,100	148,700	140,700	133,500	28
30	70.7	68.1	146,300	138,900	131,900	125,400	30
32	69.0	67.3	136,800	130,200	124,000	118,200	32
34	67.2	66.4	128,400	122,500	116,900	111,700	34
36	65.4	65.4	120,900	115,600	110,500	105,800	36
38	63.5	64.4	114,100	109,300	104,800	100,500	38
40	61.6	63.3	108,000	103,600	99,500	95,600	40
45	56.8	60.0	94,900	91,500	88,200	85,100	45
50	51.6	56.2	80,500	78,500	76,700	74,900	50
55	45.9	51.4	68,800	67,400	66,000	64,700	55
60	39.7	45.6	58,900	57,900	56,900	56,000	60
65	32.3	38.2	50,200	49,500	48,900	48,200	65
70	22.8	27.7	41,900	41,500	41,100	40,700	70
80 Ft. Boom							
17	82.8	81.9	255,200 c				17
18	82.1	81.8	241,700 c				18
19	81.4	81.6	229,400 b	211,500 b			19
20	80.7	81.4	218,200 b	201,800 b	186,500 b		20
22	79.2	81.0	198,700 b	184,700 b	171,600 b	160,100 b	22
24	77.7	80.5	182,200	170,100	158,800	148,700	24
26	76.2	80.0	168,100	157,600	147,700	138,800	26
28	74.7	79.4	155,900	146,600	137,900	130,000	28
30	73.2	78.8	145,200	137,000	129,300	122,200	30
32	71.7	78.1	135,700	128,400	121,600	115,200	32
34	70.2	77.3	127,400	120,800	114,600	108,900	34
36	68.6	76.5	119,900	114,000	108,400	103,200	36
38	67.1	75.6	113,100	107,800	102,700	98,000	38
40	65.5	74.6	107,000	102,200	97,600	93,300	40
45	61.4	71.9	93,300	90,100	86,500	83,000	45
50	57.2	68.7	79,700	77,300	75,000	72,900	50
55	52.7	65.0	68,700	66,900	65,200	63,600	55
60	47.9	60.6	59,600	58,200	56,900	55,700	60
65	42.7	55.3	51,800	50,800	49,800	48,900	65
70	36.9	48.9	44,900	44,200	43,400	42,800	70
75	30.1	40.8	38,600	38,100	37,600	37,100	75
80	21.2	29.5	32,200	31,900	31,600	31,300	80



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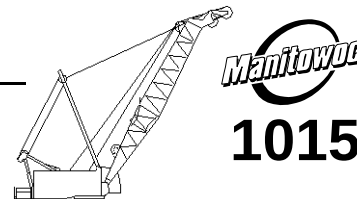
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90 Ft. Boom							
18	83.0	91.9	198,000 c				18
19	82.4	91.7	198,000 b				19
20	81.7	91.6	198,000 b	165,600 b			20
22	80.4	91.2	191,800 b	160,400 b	138,200 b		22
24	79.1	90.8	181,600	155,500	134,400	118,400	24
26	77.8	90.3	167,500	150,900	130,900	115,600	26
28	76.5	89.8	155,300	145,200	127,500	112,900	28
30	75.2	89.2	144,600	135,700	124,300	110,300	30
32	73.8	88.6	135,200	127,300	119,800	107,800	32
34	72.5	88.0	126,900	119,700	113,000	105,300	34
36	71.1	87.2	119,400	112,900	106,800	101,300	36
38	69.8	86.5	112,700	106,800	101,300	96,200	38
40	68.4	85.6	106,600	101,200	96,200	91,500	40
45	64.9	83.3	93,600	89,300	85,300	81,500	45
50	61.3	80.6	82,000	79,100	76,300	73,200	50
55	57.5	77.4	70,900	68,700	66,600	64,600	55
60	53.6	73.8	61,800	60,100	58,500	56,900	60
65	49.4	69.6	54,200	52,900	51,600	50,400	65
70	44.9	64.7	47,600	46,600	45,600	44,600	70
75	40.1	58.9	41,800	41,000	40,300	39,500	75
80	34.6	51.9	36,600	36,000	35,400	34,800	80
85	28.2	43.2	31,600	31,200	30,800	30,400	85
90	19.9	31.1	26,500	26,300	26,000	25,800	90
100 Ft. Boom							
20	82.5	101.7	193,700 b				20
22	81.4	101.4	185,900 b	155,200 b			22
24	80.2	101.0	178,700	150,100	129,700		24
26	79.0	100.6	166,700	145,200	126,000	111,300	26
28	77.9	100.1	154,500	140,600	122,400	108,500	28
30	76.7	99.6	143,900	134,200	119,000	105,700	30
32	75.5	99.1	134,500	125,800	115,800	103,100	32
34	74.3	98.5	126,100	118,400	111,100	100,600	34
36	73.1	97.8	118,700	111,700	105,100	98,100	36
38	71.9	97.2	112,000	105,600	99,600	94,100	38
40	70.7	96.4	105,900	100,100	94,600	89,600	40
45	67.6	94.4	92,900	88,300	83,900	79,800	45
50	64.4	92.0	82,500	78,700	75,000	71,700	50
55	61.1	89.2	71,800	69,200	66,700	64,400	55
60	57.8	86.1	62,800	60,700	58,800	57,000	60
65	54.2	82.6	55,200	53,600	52,100	50,600	65
70	50.6	78.5	48,800	47,500	46,300	45,100	70
75	46.6	73.9	43,300	42,200	41,200	40,300	75
80	42.5	68.5	38,300	37,500	36,700	35,900	80
85	37.9	62.3	33,900	33,200	32,600	32,000	85
90	32.7	54.8	29,700	29,200	28,800	28,300	90
95	26.7	45.5	25,800	25,400	25,000	24,700	95
100	18.8	32.7	21,600	21,300	21,100	20,900	100


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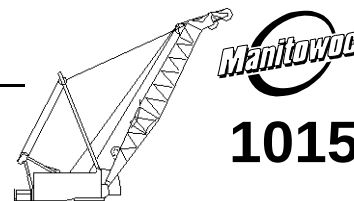
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110 Ft. Boom							
22	82.2	111.5	180,900 ^b				22
24	81.1	111.2	173,500	145,600			24
26	80.1	110.8	166,600	140,700	122,100		26
28	79.0	110.4	154,700	136,000	118,500	105,200	28
30	77.9	109.9	144,000	131,600	115,100	102,400	30
32	76.9	109.4	134,700	125,400	111,800	99,700	32
34	75.8	108.9	126,300	118,000	108,600	97,100	34
36	74.7	108.3	118,900	111,300	104,300	94,600	36
38	73.6	107.7	112,200	105,300	98,900	92,200	38
40	72.5	107.0	106,100	99,900	94,000	88,700	40
45	69.7	105.2	93,200	88,200	83,400	79,100	45
50	66.9	103.1	82,800	78,600	74,700	71,100	50
55	64.0	100.7	73,100	70,200	67,400	64,400	55
60	61.0	97.9	64,200	61,800	59,600	57,500	60
65	58.0	94.8	56,700	54,800	53,000	51,300	65
70	54.8	91.3	50,400	48,800	47,300	46,000	70
75	51.5	87.4	44,900	43,600	42,400	41,300	75
80	48.0	82.9	40,100	39,100	38,100	37,200	80
85	44.3	77.9	35,900	35,000	34,200	33,400	85
90	40.3	72.2	32,000	31,300	30,700	30,100	90
95	36.0	65.5	28,500	27,900	27,400	26,900	95
100	31.1	57.5	25,100	24,700	24,300	23,900	100
105	25.3	47.7	21,900	21,600	21,300	21,000	105
110	17.8	34.1	18,400	18,200	18,000	17,800	110


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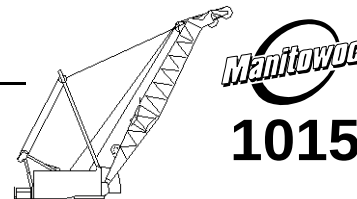
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120 Ft. Boom							
22	82.8	121.6	175,000				22
24	81.9	121.3	167,700	140,400			24
26	80.9	121.0	160,700	135,500	117,600		26
28	79.9	120.6	153,900	130,800	114,000	101,200	28
30	78.9	120.2	143,300	126,300	110,500	98,400	30
32	78.0	119.7	133,900	122,100	107,200	95,600	32
34	77.0	119.2	125,600	116,700	104,000	93,000	34
36	76.0	118.7	118,200	110,100	101,000	90,500	36
38	75.0	118.2	111,500	104,100	97,300	88,100	38
40	74.0	117.6	105,400	98,700	92,500	85,800	40
45	71.5	115.9	92,500	87,100	82,000	77,400	45
50	68.9	114.0	82,100	77,700	73,500	69,600	50
55	66.3	111.8	73,500	69,800	66,300	63,000	55
60	63.7	109.3	64,500	61,800	59,300	57,000	60
65	60.9	106.6	57,000	54,900	52,800	50,900	65
70	58.1	103.5	50,700	48,900	47,300	45,700	70
75	55.2	100.0	45,300	43,800	42,400	41,100	75
80	52.2	96.2	40,600	39,400	38,200	37,100	80
85	49.1	91.9	36,400	35,400	34,400	33,500	85
90	45.8	87.1	32,700	31,900	31,100	30,300	90
95	42.3	81.7	29,300	28,600	28,000	27,300	95
100	38.5	75.6	26,200	25,700	25,100	24,600	100
105	34.4	68.5	23,300	22,900	22,400	22,000	105
110	29.7	60.1	20,600	20,200	19,900	19,500	110
115	24.2	49.7	17,800	17,600	17,300	17,100	115
120	17.0	35.5	14,800	14,700	14,500	14,400	120


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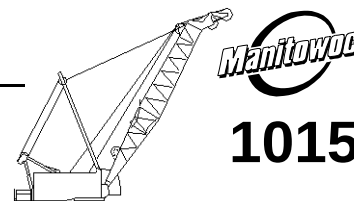
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130 Ft. Boom							
24	82.5	131.4	132,000				24
26	81.6	131.1	132,000	108,900			26
28	80.7	130.8	132,000	106,500	89,200		28
30	79.8	130.4	128,300	104,100	87,400	75,200	30
32	78.9	130.0	124,300	101,800	85,700	73,900	32
34	78.0	129.5	120,400	99,500	84,000	72,600	34
36	77.1	129.0	116,500	97,300	82,400	71,300	36
38	76.2	128.5	110,800	95,100	80,800	70,000	38
40	75.3	128.0	104,800	92,900	79,200	68,800	40
45	73.0	126.4	91,900	86,200	75,500	65,800	45
50	70.6	124.7	81,500	76,800	71,900	63,000	50
55	68.3	122.7	73,000	69,000	65,200	60,400	55
60	65.9	120.5	65,800	62,400	59,200	56,200	60
65	63.4	118.0	58,200	55,700	53,400	51,200	65
70	60.9	115.2	51,700	49,600	47,700	45,900	70
75	58.3	112.1	46,200	44,500	42,900	41,400	75
80	55.6	108.7	41,400	40,000	38,600	37,300	80
85	52.9	105.0	37,200	36,000	34,900	33,800	85
90	50.0	100.8	33,500	32,500	31,500	30,600	90
95	47.0	96.2	30,100	29,300	28,500	27,700	95
100	43.9	91.1	27,100	26,400	25,700	25,000	100
105	40.5	85.4	24,300	23,700	23,100	22,600	105
110	36.9	78.9	21,700	21,200	20,800	20,300	110
115	32.9	71.4	19,300	18,900	18,500	18,100	115
120	28.5	62.6	16,900	16,600	16,300	16,000	120
125	23.2	51.7	14,600	14,300	14,100	13,900	125
130	16.3	36.9	12,000	11,800	11,700	11,500	130



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53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

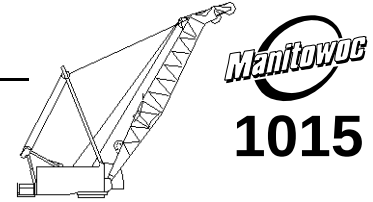
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
140 Ft. Boom							
24	83.0	141.6	132,000				24
26	82.2	141.2	129,900				26
28	81.4	140.9	126,100	101,400			28
30	80.5	140.6	122,300	98,900	83,200		30
32	79.7	140.2	118,500	96,600	81,400	70,300	32
34	78.9	139.8	114,800	94,300	79,700	68,900	34
36	78.0	139.3	111,000	92,000	78,000	67,600	36
38	77.2	138.9	107,400	89,900	76,300	66,300	38
40	76.4	138.3	103,900	87,700	74,700	65,000	40
45	74.2	136.9	91,200	82,500	70,900	61,900	45
50	72.1	135.3	80,800	75,800	67,400	59,000	50
55	69.9	133.5	72,300	68,000	63,900	56,300	55
60	67.7	131.4	65,100	61,500	58,100	53,700	60
65	65.4	129.2	58,200	55,400	52,900	50,200	65
70	63.2	126.7	51,700	49,400	47,300	45,400	70
75	60.8	123.9	46,200	44,300	42,500	40,900	75
80	58.4	120.8	41,400	39,800	38,300	36,900	80
85	55.9	117.5	37,200	35,900	34,600	33,400	85
90	53.4	113.8	33,600	32,400	31,300	30,300	90
95	50.8	109.7	30,300	29,300	28,300	27,500	95
100	48.0	105.3	27,300	26,400	25,600	24,900	100
105	45.2	100.4	24,600	23,900	23,200	22,500	105
110	42.2	95.0	22,100	21,500	20,900	20,400	110
115	38.9	88.9	19,800	19,300	18,800	18,300	115
120	35.5	82.1	17,600	17,200	16,800	16,400	120
125	31.7	74.2	15,500	15,200	14,900	14,500	125
130	27.4	65.0	13,500	13,200	13,000	12,700	130
135	22.3	53.7	11,500	11,300	11,100	10,900	135
140	15.6	38.2	9,200	9,100	8,900	8,800	140


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Liftcrane Boom Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

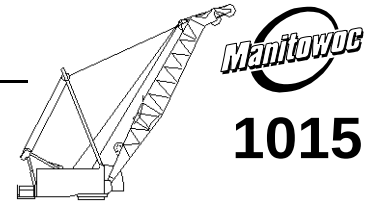
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
150 Ft. Boom							
26	82.7	151.4	124,400				26
28	82.0	151.1	120,700	97,100			28
30	81.2	150.7	117,100	94,700			30
32	80.4	150.4	113,500	92,300	78,000		32
34	79.6	150.0	109,900	90,000	76,300	66,100	34
36	78.9	149.6	106,400	87,800	74,600	64,800	36
38	78.1	149.1	103,000	85,600	72,900	63,400	38
40	77.3	148.6	99,600	83,500	71,300	62,100	40
45	75.3	147.3	91,200	78,500	67,400	59,000	45
50	73.3	145.9	80,800	73,600	63,800	56,100	50
55	71.3	144.2	72,300	67,800	60,500	53,300	55
60	69.3	142.3	65,100	61,300	57,200	50,700	60
65	67.2	140.2	58,700	55,700	52,600	48,300	65
70	65.1	137.9	52,200	49,800	47,500	45,300	70
75	62.9	135.3	46,700	44,600	42,700	40,900	75
80	60.8	132.5	42,000	40,200	38,500	37,000	80
85	58.5	129.5	37,800	36,300	34,900	33,600	85
90	56.2	126.2	34,100	32,800	31,600	30,500	90
95	53.9	122.5	30,900	29,800	28,700	27,700	95
100	51.4	118.6	27,900	27,000	26,100	25,200	100
105	48.9	114.3	25,300	24,500	23,700	22,900	105
110	46.3	109.6	22,900	22,100	21,500	20,800	110
115	43.5	104.4	20,600	20,000	19,400	18,900	115
120	40.6	98.6	18,500	18,000	17,500	17,000	120
125	37.5	92.3	16,600	16,200	15,700	15,300	125
130	34.2	85.1	14,800	14,400	14,000	13,700	130
135	30.5	76.9	13,000	12,700	12,400	12,100	135
140	26.4	67.3	11,200	11,000	10,700	10,500	140
145	21.5	55.5	9,400	9,200	9,100	8,900	145
150	15.1	39.5	7,400	7,300	7,200	7,100	150


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Liftcrane Boom Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
160 Ft. Boom							
28	82.5	161.2	114,900				28
30	81.7	160.9	111,400	90,200			30
32	81.0	160.5	108,000	87,800	74,300		32
34	80.3	160.2	104,600	85,500	72,500		34
36	79.6	159.8	101,300	83,200	70,800	61,600	36
38	78.8	159.4	98,000	81,100	69,100	60,200	38
40	78.1	158.9	94,800	79,000	67,500	58,900	40
45	76.3	157.7	87,300	74,000	63,600	55,700	45
50	74.4	156.3	80,100	69,300	60,000	52,700	50
55	72.5	154.7	71,600	64,900	56,600	50,000	55
60	70.6	153.0	64,400	60,400	53,500	47,300	60
65	68.7	151.0	58,300	54,800	50,400	44,900	65
70	66.7	148.9	52,100	49,400	46,900	42,500	70
75	64.8	146.5	46,600	44,300	42,200	40,300	75
80	62.8	144.0	41,800	39,900	38,100	36,400	80
85	60.7	141.2	37,700	36,000	34,500	33,000	85
90	58.6	138.1	34,000	32,600	31,300	30,000	90
95	56.5	134.9	30,800	29,500	28,400	27,300	95
100	54.3	131.3	27,800	26,800	25,800	24,800	100
105	52.0	127.4	25,200	24,300	23,400	22,600	105
110	49.7	123.2	22,800	22,000	21,200	20,500	110
115	47.2	118.6	20,600	19,900	19,200	18,600	115
120	44.7	113.6	18,600	18,000	17,400	16,800	120
125	42.1	108.2	16,700	16,200	15,700	15,200	125
130	39.3	102.2	14,900	14,500	14,000	13,600	130
135	36.3	95.5	13,300	12,900	12,500	12,100	135
140	33.0	88.0	11,700	11,300	11,000	10,700	140
145	29.5	79.5	10,100	9,900	9,600	9,300	145
150	25.5	69.5	8,600	8,400	8,200	7,900	150
155	20.8	57.3	7,000	6,800	6,700	6,500	155

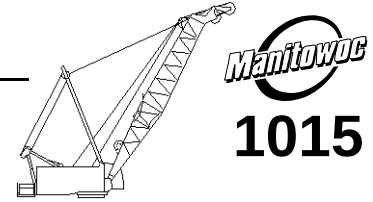


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Liftcrane Boom Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

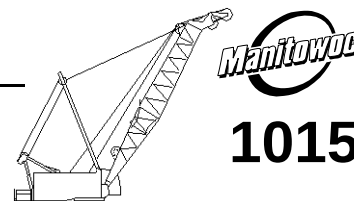
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
170 Ft. Boom							
28	82.9	171.3	105,500				28
30	82.2	171.0	102,800				30
32	81.5	170.7	99,900	79,000			32
34	80.9	170.3	97,100	77,400	63,400		34
36	80.2	170.0	94,200	75,900	62,300		36
38	79.5	169.6	91,400	74,200	61,300	51,700	38
40	78.8	169.2	88,600	72,600	60,300	50,900	40
45	77.1	168.0	82,000	68,400	57,700	49,000	45
50	75.3	166.7	75,700	64,300	54,900	47,100	50
55	73.6	165.2	70,000	60,300	52,100	45,100	55
60	71.8	163.6	63,800	56,500	49,300	43,100	60
65	70.0	161.8	57,700	52,900	46,600	41,000	65
70	68.2	159.8	52,000	49,100	43,900	39,000	70
75	66.4	157.6	46,500	44,000	41,400	37,000	75
80	64.5	155.2	41,700	39,600	37,600	35,000	80
85	62.6	152.6	37,500	35,700	34,100	32,500	85
90	60.7	149.9	33,900	32,300	30,900	29,500	90
95	58.7	146.8	30,600	29,300	28,000	26,800	95
100	56.7	143.6	27,700	26,500	25,400	24,400	100
105	54.6	140.0	25,100	24,100	23,100	22,200	105
110	52.5	136.2	22,700	21,800	21,000	20,200	110
115	50.3	132.1	20,600	19,800	19,000	18,300	115
120	48.1	127.7	18,600	17,900	17,200	16,600	120
125	45.7	122.8	16,700	16,100	15,500	15,000	125
130	43.3	117.6	15,000	14,500	14,000	13,500	130
135	40.7	111.9	13,400	12,900	12,500	12,000	135
140	38.0	105.6	11,900	11,500	11,100	10,700	140
145	35.1	98.6	10,400	10,100	9,700	9,400	145
150	32.0	90.8	9,000	8,700	8,400	8,200	150
155	28.6	82.0	7,700	7,400	7,200	7,000	155
160	24.7	71.6	6,300	6,100	5,900	5,700	160
165	20.1	59.0	4,900	4,700	4,600	4,400	165


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Liftcrane Boom Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

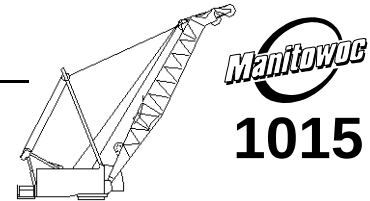
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
180 Ft. Boom							
30	82.7	181.1	97,200				30
32	82.0	180.8	94,500	74,300			32
34	81.4	180.5	91,900	72,900			34
36	80.7	180.1	89,200	71,300	58,600		36
38	80.1	179.8	86,500	69,800	57,500		38
40	79.4	179.4	83,900	68,200	56,500	47,700	40
45	77.8	178.3	77,600	64,200	53,900	45,700	45
50	76.2	177.1	71,700	60,300	51,200	43,700	50
55	74.5	175.7	66,200	56,500	48,500	41,800	55
60	72.9	174.1	61,200	52,800	45,800	39,900	60
65	71.2	172.4	56,600	49,400	43,200	37,900	65
70	69.5	170.6	51,800	46,200	40,700	35,900	70
75	67.8	168.5	46,200	43,100	38,300	34,000	75
80	66.0	166.3	41,400	39,200	36,000	32,100	80
85	64.2	163.9	37,300	35,300	33,500	30,300	85
90	62.5	161.3	33,600	31,900	30,400	28,500	90
95	60.6	158.5	30,400	28,900	27,500	26,200	95
100	58.8	155.5	27,500	26,200	25,000	23,800	100
105	56.9	152.2	24,800	23,700	22,700	21,700	105
110	54.9	148.7	22,500	21,500	20,500	19,700	110
115	52.9	145.0	20,300	19,400	18,600	17,800	115
120	50.9	141.0	18,300	17,600	16,800	16,100	120
125	48.8	136.6	16,500	15,800	15,200	14,600	125
130	46.6	131.9	14,800	14,200	13,600	13,100	130
135	44.3	126.9	13,300	12,700	12,200	11,700	135
140	42.0	121.4	11,800	11,300	10,900	10,400	140
145	39.5	115.4	10,400	10,000	9,600	9,200	145
150	36.9	108.9	9,100	8,700	8,300	8,000	150
155	34.1	101.7	7,800	7,500	7,200	6,900	155
160	31.1	93.6	6,600	6,300	6,000	5,800	160
165	27.7	84.4	5,300	5,100	4,900	4,700	165
170	24.0	73.7	4,100				170


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Liftcrane Boom Capacities

Boom No. 83
53,000 Lb. Counterweight
Pedestal Mount
0 Degree thru 3 Degree Machine List
360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	Oper. Radius Feet
190 Ft. Boom						
32	82.4	190.9	66,000			32
34	81.8	190.6	66,000	61,300		34
36	81.2	190.3	66,000	60,000		36
38	80.6	189.9	66,000	58,700	49,500	38
40	80.0	189.6	66,000	57,400	48,600	40
45	78.5	188.5	63,600	54,100	46,300	45
50	76.9	187.4	59,100	50,800	43,900	50
55	75.4	186.1	54,900	47,700	41,600	55
60	73.8	184.6	51,000	44,700	39,300	60
65	72.2	183.0	47,400	41,900	37,100	65
70	70.6	181.3	44,100	39,300	34,900	70
75	69.0	179.4	41,100	36,800	32,900	75
80	67.4	177.3	38,200	34,400	30,900	80
85	65.7	175.0	35,600	32,200	29,000	85
90	64.0	172.6	33,200	30,100	27,300	90
95	62.3	170.0	30,500	28,100	25,600	95
100	60.6	167.2	27,600	26,200	24,000	100
105	58.8	164.2	25,000	23,800	22,400	105
110	57.0	160.9	22,700	21,600	20,600	110
115	55.2	157.5	20,500	19,600	18,700	115
120	53.3	153.8	18,600	17,700	16,900	120
125	51.4	149.8	16,800	16,000	15,300	125
130	49.4	145.6	15,100	14,400	13,800	130
135	47.4	141.0	13,500	12,900	12,400	135
140	45.3	136.1	12,100	11,500	11,000	140
145	43.1	130.8	10,700	10,200	9,800	145
150	40.8	125.1	9,400	9,000	8,600	150
155	38.4	118.9	8,200	7,900	7,500	155
160	35.8	112.1	7,100	6,700	6,400	160
165	33.1	104.6	5,900	5,600	5,400	165
170	30.2	96.2	4,800	4,600	4,400	170



Liftcrane Boom Capacities

Boom No. 83

53,000 Lb. Counterweight

Pedestal Mount

0 Degree thru 3 Degree Machine List

360 Degree Rating

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds
200 Ft. Boom				
34	82.2	200.7	66,000	
36	81.7	200.4	66,000	56,600
38	81.1	200.1	66,000	55,300
40	80.5	199.7	65,000	54,100
45	79.0	198.8	60,400	50,900
50	77.6	197.7	56,000	47,800
55	76.1	196.4	52,000	44,800
60	74.6	195.1	48,200	41,900
65	73.1	193.5	44,700	39,200
70	71.6	191.9	41,500	36,600
75	70.1	190.1	38,500	34,200
80	68.6	188.1	35,800	31,900
85	67.0	186.0	33,200	29,800
90	65.4	183.7	30,900	27,800
95	63.8	181.3	28,700	25,800
100	62.2	178.6	26,600	24,000
105	60.6	175.8	24,700	22,400
110	58.9	172.8	22,400	20,800
115	57.2	169.6	20,200	19,200
120	55.5	166.2	18,300	17,300
125	53.7	162.5	16,500	15,600
130	51.9	158.6	14,800	14,100
135	50.0	154.5	13,300	12,600
140	48.1	150.0	11,800	11,200
145	46.1	145.2	10,500	10,000
150	44.1	140.1	9,200	8,700
155	41.9	134.6	8,000	7,600
160	39.7	128.7	6,900	6,500
165	37.4	122.2	5,800	5,500
170	34.9	115.2	4,800	4,500