

Liftcrane Boom Capacities

Boom No. 83A

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. A14196** and Wire Rope Specification chart **No. 8697-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 Operator's 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.

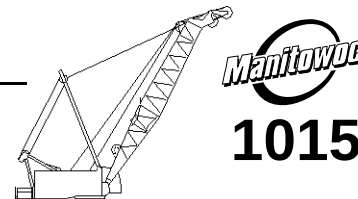
Auxiliary Drum Deduct

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) 190 Ft.
1 Degree	(a) 180 Ft.
2 Degree	170 Ft.
3 Degree	170 Ft.
Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be attached on 190 Ft. boom and 180 Ft. boom with 1 degree list. Jib cannot be attached on machine while operating on a barge.	

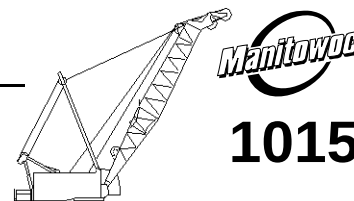
Wire rope guard (**No. A13283**) on boom top must be removed before use of this chart.



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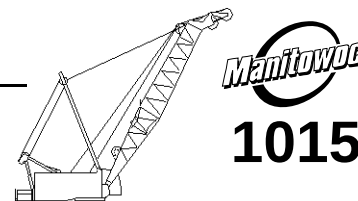
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
50 Ft. Boom							
14	82.0	52.0	264,600 d	244,000 d			14
15	80.8	51.8	250,700 d	242,000 d	234,000 d		15
16	79.6	51.6	248,700 c	240,100 c	232,200 c	224,600 c	16
17	78.5	51.4	246,700 c	238,300 c	227,200 c	213,900 c	17
18	77.3	51.1	244,100 c	229,800 c	216,300 c	204,000 c	18
19	76.1	50.8	231,700 c	218,600 c	206,200 c	195,000 c	19
20	74.9	50.5	220,400 b	208,400 b	197,100 b	186,800 b	20
22	72.5	49.8	200,600 b	190,500 b	180,900 b	172,100 b	22
24	70.0	49.0	183,900 b	175,200 b	167,000 b	159,400 b	24
26	67.5	48.1	169,600	162,100	155,000	148,300	26
28	64.9	47.1	157,300	150,700	144,500	138,600	28
30	62.3	46.0	146,400	140,700	135,200	130,100	30
32	59.6	44.7	136,900	131,800	127,000	122,400	32
34	56.8	43.3	128,400	123,900	119,600	115,500	34
36	53.9	41.8	120,800	116,800	113,000	109,300	36
38	50.9	40.1	111,500	108,900	106,600	103,700	38
40	47.8	38.2	102,200	100,100	98,200	96,300	40
45	38.9	32.3	82,600	81,300	80,100	78,900	45
50	27.6	23.8	62,200	61,500	60,900	60,400	50
60 Ft. Boom							
15	82.4	62.0	252,800 d				15
16	81.4	61.8	251,100 c	242,100 c			16
17	80.4	61.6	249,500 c	239,400 c	222,700 c		17
18	79.4	61.4	243,500 c	227,300 c	212,100 c	198,600 c	18
19	78.5	61.2	231,100 c	216,300 c	202,400 c	190,000 c	19
20	77.5	60.9	219,800 b	206,200 b	193,500 b	182,000 b	20
22	75.5	60.3	200,100 b	188,600 b	177,700 b	167,900 b	22
24	73.5	59.7	183,500 b	173,600 b	164,200 b	155,700 b	24
26	71.4	59.0	169,200	160,600	152,500	145,100	26
28	69.4	58.2	156,900	149,400	142,300	135,700	28
30	67.3	57.3	146,100	139,500	133,200	127,400	30
32	65.2	56.3	136,600	130,700	125,100	119,900	32
34	63.0	55.2	128,100	122,900	117,900	113,200	34
36	60.8	54.0	120,600	115,900	111,400	107,200	36
38	58.5	52.7	113,800	109,600	105,500	101,700	38
40	56.2	51.3	107,600	103,800	100,200	96,700	40
45	50.0	47.2	90,200	88,200	86,300	84,400	45
50	43.2	42.1	75,400	74,000	72,600	71,400	50
55	35.2	35.4	62,900	62,000	61,100	60,300	55
60	24.9	25.8	51,400	50,900	50,400	50,000	60


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Pedestal Mount
0 Degree thru 3 Degree Machine List
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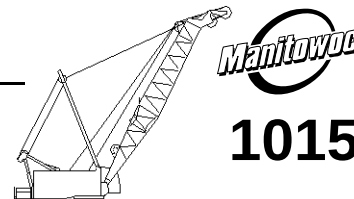
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
70 Ft. Boom							
16	82.6	72.0	252,900 c				16
17	81.8	71.8	251,600 c	236,800 c			17
18	81.0	71.6	242,800 c	224,900 c	208,200 c		18
19	80.1	71.4	230,500 c	214,100 c	198,800 c		19
20	79.3	71.2	219,300 b	204,200 b	190,100 b	177,600 b	20
22	77.6	70.7	199,600 b	186,800 b	174,800 b	164,100 b	22
24	75.9	70.2	183,000 b	172,000 b	161,700 b	152,300 b	24
26	74.2	69.6	168,800	159,300	150,200	142,000	26
28	72.5	68.9	156,500	148,100	140,200	132,900	28
30	70.7	68.1	145,800	138,400	131,300	124,900	30
32	69.0	67.3	136,300	129,700	123,400	117,700	32
34	67.2	66.4	127,900	122,000	116,400	111,200	34
36	65.4	65.4	120,400	115,000	110,000	105,300	36
38	63.5	64.4	113,600	108,800	104,200	99,900	38
40	61.6	63.3	107,400	103,100	98,900	95,100	40
45	56.8	60.0	94,400	90,900	87,600	84,500	45
50	51.6	56.2	80,000	78,000	76,100	74,400	50
55	45.9	51.4	68,300	66,800	65,500	64,200	55
60	39.7	45.6	58,400	57,400	56,400	55,500	60
65	32.3	38.2	49,700	49,000	48,300	47,700	65
70	22.8	27.7	41,300	40,900	40,500	40,200	70
80 Ft. Boom							
17	82.8	81.9	253,400 c				17
18	82.1	81.8	241,100 c				18
19	81.4	81.6	228,800 b	210,900 b			19
20	80.7	81.4	217,700 b	201,200 b	185,900 b		20
22	79.2	81.0	198,200 b	184,100 b	171,100 b	159,500 b	22
24	77.7	80.5	181,700	169,600	158,300	148,200	24
26	76.2	80.0	167,600	157,000	147,100	138,300	26
28	74.7	79.4	155,300	146,100	137,400	129,500	28
30	73.2	78.8	144,600	136,400	128,700	121,700	30
32	71.7	78.1	135,200	127,900	121,000	114,700	32
34	70.2	77.3	126,800	120,300	114,100	108,400	34
36	68.6	76.5	119,300	113,400	107,800	102,700	36
38	67.1	75.6	112,600	107,200	102,200	97,500	38
40	65.5	74.6	106,400	101,600	97,000	92,700	40
45	61.4	71.9	92,800	89,500	85,900	82,400	45
50	57.2	68.7	79,100	76,700	74,500	72,300	50
55	52.7	65.0	68,100	66,300	64,600	63,000	55
60	47.9	60.6	59,000	57,600	56,400	55,100	60
65	42.7	55.3	51,200	50,200	49,200	48,300	65
70	36.9	48.9	44,400	43,600	42,900	42,200	70
75	30.1	40.8	38,000	37,500	37,000	36,500	75
80	21.2	29.5	31,700	31,400	31,100	30,800	80



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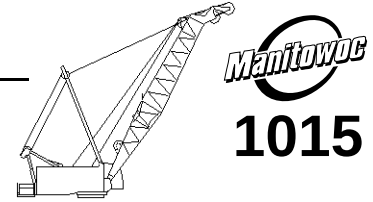
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
90 Ft. Boom							
18	83.0	91.9	198,000 c				18
19	82.4	91.7	198,000 b				19
20	81.7	91.6	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	181,000	155,500	134,400	118,400	24
26	77.8	90.3	166,900	150,900	130,900	115,600	26
28	76.5	89.8	154,700	144,600	127,500	112,900	28
30	75.2	89.2	144,100	135,100	124,300	110,300	30
32	73.8	88.6	134,700	126,700	119,200	107,800	32
34	72.5	88.0	126,300	119,100	112,400	105,300	34
36	71.1	87.2	118,800	112,300	106,300	100,700	36
38	69.8	86.5	112,100	106,200	100,700	95,600	38
40	68.4	85.6	106,000	100,700	95,600	91,000	40
45	64.9	83.3	93,000	88,800	84,700	80,900	45
50	61.3	80.6	81,400	78,500	75,800	72,600	50
55	57.5	77.4	70,300	68,100	66,000	64,000	55
60	53.6	73.8	61,300	59,500	57,900	56,300	60
65	49.4	69.6	53,600	52,300	51,000	49,800	65
70	44.9	64.7	47,100	46,000	45,000	44,000	70
75	40.1	58.9	41,300	40,400	39,700	38,900	75
80	34.6	51.9	36,000	35,400	34,800	34,300	80
85	28.2	43.2	31,000	30,600	30,200	29,800	85
90	19.9	31.1	25,900	25,700	25,400	25,200	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	166,100	145,200	126,000	111,300	26
28	77.9	100.1	153,900	140,600	122,400	108,500	28
30	76.7	99.6	143,300	133,600	119,000	105,700	30
32	75.5	99.1	133,900	125,200	115,800	103,100	32
34	74.3	98.5	125,500	117,800	110,500	100,600	34
36	73.1	97.8	118,100	111,100	104,500	98,100	36
38	71.9	97.2	111,400	105,000	99,000	93,500	38
40	70.7	96.4	105,300	99,500	94,000	89,000	40
45	67.6	94.4	92,300	87,700	83,300	79,200	45
50	64.4	92.0	81,900	78,100	74,400	71,000	50
55	61.1	89.2	71,200	68,600	66,100	63,800	55
60	57.8	86.1	62,200	60,100	58,200	56,400	60
65	54.2	82.6	54,600	53,000	51,500	50,000	65
70	50.6	78.5	48,200	46,900	45,700	44,500	70
75	46.6	73.9	42,600	41,600	40,600	39,600	75
80	42.5	68.5	37,700	36,900	36,100	35,300	80
85	37.9	62.3	33,300	32,600	32,000	31,400	85
90	32.7	54.8	29,100	28,600	28,100	27,700	90
95	26.7	45.5	25,100	24,800	24,400	24,100	95
100	18.8	32.7	21,000	20,700	20,500	20,300	100


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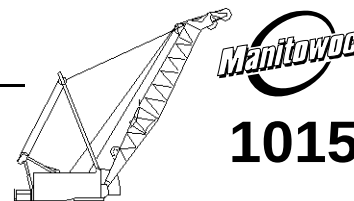
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110 Ft. Boom							
22	82.2	111.5	180,900 b				22
24	81.1	111.2	173,500	145,600			24
26	80.1	110.8	165,700	140,700	122,100		26
28	79.0	110.4	153,600	136,000	118,500	105,200	28
30	77.9	109.9	142,900	131,600	115,100	102,400	30
32	76.9	109.4	133,600	124,300	111,800	99,700	32
34	75.8	108.9	125,200	116,900	108,600	97,100	34
36	74.7	108.3	117,800	110,200	103,200	94,600	36
38	73.6	107.7	111,100	104,200	97,800	92,000	38
40	72.5	107.0	105,000	98,800	92,900	87,600	40
45	69.7	105.2	92,100	87,100	82,300	78,000	45
50	66.9	103.1	81,700	77,500	73,600	70,000	50
55	64.0	100.7	72,100	69,100	66,300	63,300	55
60	61.0	97.9	63,100	60,700	58,500	56,400	60
65	58.0	94.8	55,600	53,700	51,900	50,200	65
70	54.8	91.3	49,300	47,700	46,300	44,900	70
75	51.5	87.4	43,800	42,600	41,400	40,200	75
80	48.0	82.9	39,000	38,000	37,000	36,100	80
85	44.3	77.9	34,800	33,900	33,100	32,400	85
90	40.3	72.2	30,900	30,300	29,600	29,000	90
95	36.0	65.5	27,400	26,900	26,300	25,800	95
100	31.1	57.5	24,100	23,700	23,200	22,900	100
105	25.3	47.7	20,800	20,500	20,200	19,900	105
110	17.8	34.1	17,300	17,100	16,900	16,800	110


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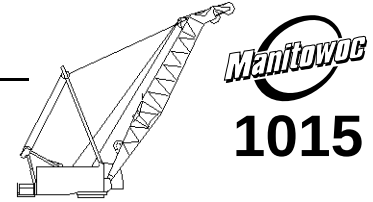
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
120 Ft. Boom							
22	82.8	121.6	175,000				22
24	81.9	121.3	167,700	140,400			24
26	80.9	121.0	160,700	135,500	117,600		26
28	79.9	120.6	152,700	130,800	114,000	101,200	28
30	78.9	120.2	142,100	126,300	110,500	98,400	30
32	78.0	119.7	132,800	122,100	107,200	95,600	32
34	77.0	119.2	124,500	115,500	104,000	93,000	34
36	76.0	118.7	117,000	109,000	101,000	90,500	36
38	75.0	118.2	110,300	103,000	96,200	88,100	38
40	74.0	117.6	104,300	97,600	91,300	85,700	40
45	71.5	115.9	91,400	86,000	80,900	76,300	45
50	68.9	114.0	81,000	76,500	72,300	68,400	50
55	66.3	111.8	72,400	68,700	65,100	61,900	55
60	63.7	109.3	63,400	60,700	58,200	55,900	60
65	60.9	106.6	55,900	53,700	51,700	49,800	65
70	58.1	103.5	49,600	47,800	46,200	44,600	70
75	55.2	100.0	44,200	42,700	41,300	40,000	75
80	52.2	96.2	39,500	38,200	37,100	36,000	80
85	49.1	91.9	35,300	34,300	33,300	32,400	85
90	45.8	87.1	31,600	30,700	29,900	29,200	90
95	42.3	81.7	28,200	27,500	26,800	26,200	95
100	38.5	75.6	25,100	24,500	24,000	23,500	100
105	34.4	68.5	22,200	21,800	21,300	20,900	105
110	29.7	60.1	19,500	19,100	18,700	18,400	110
115	24.2	49.7	16,700	16,400	16,200	15,900	115
120	17.0	35.5	13,700	13,600	13,400	13,200	120


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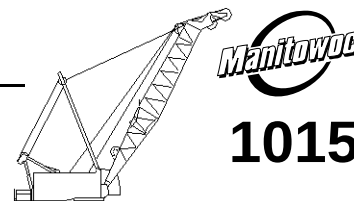
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
130 Ft. Boom							
24	82.5	131.4	132,000				24
26	81.6	131.1	132,000	108,900			26
28	80.7	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	116,400	97,300	82,400	71,300	36
38	76.2	128.5	109,700	95,100	80,800	70,000	38
40	75.3	128.0	103,600	92,900	79,200	68,800	40
45	73.0	126.4	90,800	85,000	75,500	65,800	45
50	70.6	124.7	80,400	75,600	71,100	63,000	50
55	68.3	122.7	71,800	67,800	64,000	60,400	55
60	65.9	120.5	64,600	61,200	58,000	55,000	60
65	63.4	118.0	57,000	54,500	52,200	50,000	65
70	60.9	115.2	50,500	48,500	46,600	44,800	70
75	58.3	112.1	45,000	43,300	41,700	40,200	75
80	55.6	108.7	40,200	38,800	37,400	36,200	80
85	52.9	105.0	36,000	34,800	33,700	32,600	85
90	50.0	100.8	32,300	31,300	30,300	29,400	90
95	47.0	96.2	29,000	28,100	27,300	26,500	95
100	43.9	91.1	25,900	25,200	24,500	23,900	100
105	40.5	85.4	23,100	22,500	22,000	21,400	105
110	36.9	78.9	20,600	20,100	19,600	19,100	110
115	32.9	71.4	18,100	17,700	17,300	17,000	115
120	28.5	62.6	15,800	15,400	15,100	14,800	120
125	23.2	51.7	13,400	13,100	12,900	12,700	125
130	16.3	36.9	10,800	10,600	10,500	10,300	130


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Liftcrane Boom Capacities

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

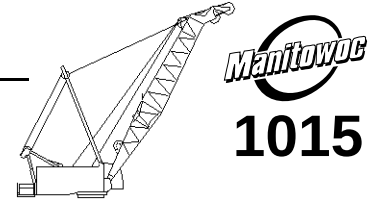
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
140 Ft. Boom							
24	83.0	141.6	132,000				24
26	82.2	141.2	129,900				26
28	81.4	140.9	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	102,900	87,700	74,700	65,000	40
45	74.2	136.9	90,000	82,500	70,900	61,900	45
50	72.1	135.3	79,600	74,600	67,400	59,000	50
55	69.9	133.5	71,100	66,800	62,800	56,300	55
60	67.7	131.4	63,900	60,300	56,900	53,700	60
65	65.4	129.2	57,000	54,200	51,700	49,000	65
70	63.2	126.7	50,500	48,200	46,100	44,200	70
75	60.8	123.9	45,000	43,100	41,300	39,600	75
80	58.4	120.8	40,200	38,600	37,100	35,700	80
85	55.9	117.5	36,000	34,700	33,400	32,200	85
90	53.4	113.8	32,300	31,200	30,100	29,100	90
95	50.8	109.7	29,000	28,100	27,100	26,200	95
100	48.0	105.3	26,100	25,200	24,400	23,700	100
105	45.2	100.4	23,400	22,700	22,000	21,300	105
110	42.2	95.0	20,900	20,300	19,700	19,100	110
115	38.9	88.9	18,600	18,100	17,600	17,100	115
120	35.5	82.1	16,400	16,000	15,600	15,200	120
125	31.7	74.2	14,300	14,000	13,600	13,300	125
130	27.4	65.0	12,300	12,000	11,800	11,500	130
135	22.3	53.7	10,300	10,000	9,800	9,600	135
140	15.6	38.2	8,000	7,800	7,700	7,600	140


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Liftcrane Boom Capacities

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

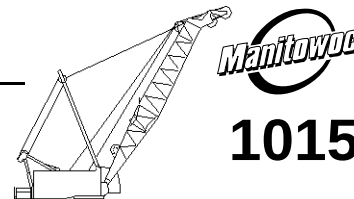
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
150 Ft. Boom							
26	82.7	151.4	124,400				26
28	82.0	151.1	120,700	97,100			28
30	81.2	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	89,600	78,500	67,400	59,000	45
50	73.3	145.9	79,200	73,600	63,800	56,100	50
55	71.3	144.2	70,700	66,200	60,500	53,300	55
60	69.3	142.3	63,500	59,700	56,100	50,700	60
65	67.2	140.2	57,100	54,100	51,000	48,100	65
70	65.1	137.9	50,700	48,200	45,900	43,700	70
75	62.9	135.3	45,100	43,100	41,100	39,300	75
80	60.8	132.5	40,400	38,600	37,000	35,400	80
85	58.5	129.5	36,200	34,700	33,300	32,000	85
90	56.2	126.2	32,600	31,300	30,100	28,900	90
95	53.9	122.5	29,300	28,200	27,100	26,100	95
100	51.4	118.6	26,400	25,400	24,500	23,600	100
105	48.9	114.3	23,700	22,900	22,100	21,300	105
110	46.3	109.6	21,300	20,600	19,900	19,200	110
115	43.5	104.4	19,000	18,400	17,800	17,300	115
120	40.6	98.6	17,000	16,400	15,900	15,500	120
125	37.5	92.3	15,000	14,600	14,100	13,700	125
130	34.2	85.1	13,200	12,800	12,400	12,100	130
135	30.5	76.9	11,400	11,100	10,800	10,500	135
140	26.4	67.3	9,600	9,400	9,200	8,900	140
145	21.5	55.5	7,900	7,700	7,500	7,300	145
150	15.1	39.5	5,800	5,700	5,600	5,500	150


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Liftcrane Boom Capacities

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

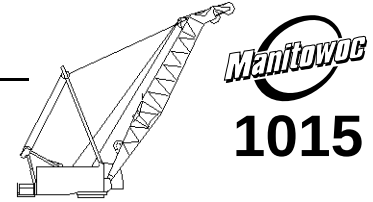
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
160 Ft. Boom							
28	82.5	161.2	114,900				28
30	81.7	160.9	111,400	90,200			30
32	81.0	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	78,500	69,300	60,000	52,700	50
55	72.5	154.7	69,900	64,900	56,600	50,000	55
60	70.6	153.0	62,800	58,700	53,500	47,300	60
65	68.7	151.0	56,700	53,200	49,900	44,900	65
70	66.7	148.9	50,500	47,800	45,300	42,500	70
75	64.8	146.5	45,000	42,700	40,600	38,600	75
80	62.8	144.0	40,200	38,300	36,500	34,800	80
85	60.7	141.2	36,000	34,400	32,800	31,400	85
90	58.6	138.1	32,400	30,900	29,600	28,400	90
95	56.5	134.9	29,100	27,900	26,700	25,600	95
100	54.3	131.3	26,200	25,100	24,100	23,200	100
105	52.0	127.4	23,600	22,600	21,800	20,900	105
110	49.7	123.2	21,200	20,400	19,600	18,900	110
115	47.2	118.6	19,000	18,300	17,600	17,000	115
120	44.7	113.6	17,000	16,300	15,800	15,200	120
125	42.1	108.2	15,100	14,500	14,000	13,500	125
130	39.3	102.2	13,300	12,800	12,400	12,000	130
135	36.3	95.5	11,600	11,200	10,900	10,500	135
140	33.0	88.0	10,000	9,700	9,400	9,100	140
145	29.5	79.5	8,500	8,200	7,900	7,700	145
150	25.5	69.5	6,900	6,700	6,500	6,300	150
155	20.8	57.3	5,400	5,200	5,000	4,900	155


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Liftcrane Boom Capacities

Boom No. 83A
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	69,300	60,300	52,100	45,100	55
60	71.8	163.6	62,100	56,500	49,300	43,100	60
65	70.0	161.8	56,000	52,400	46,600	41,000	65
70	68.2	159.8	50,300	47,400	43,900	39,000	70
75	66.4	157.6	44,800	42,300	40,000	37,000	75
80	64.5	155.2	40,000	37,900	35,900	34,100	80
85	62.6	152.6	35,800	34,000	32,400	30,800	85
90	60.7	149.9	32,200	30,600	29,200	27,800	90
95	58.7	146.8	28,900	27,600	26,300	25,100	95
100	56.7	143.6	26,000	24,800	23,700	22,700	100
105	54.6	140.0	23,400	22,400	21,400	20,500	105
110	52.5	136.2	21,000	20,100	19,300	18,500	110
115	50.3	132.1	18,900	18,100	17,300	16,600	115
120	48.1	127.7	16,900	16,200	15,500	14,900	120
125	45.7	122.8	15,000	14,400	13,800	13,300	125
130	43.3	117.6	13,300	12,800	12,300	11,800	130
135	40.7	111.9	11,700	11,200	10,800	10,300	135
140	38.0	105.6	10,200	9,800	9,400	9,000	140
145	35.1	98.6	8,700	8,400	8,000	7,700	145
150	32.0	90.8	7,300	7,000	6,700	6,500	150
155	28.6	82.0	6,000	5,700	5,500	5,300	155
160	24.7	71.6	4,600	4,400	4,200	4,000	160


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Liftcrane Boom Capacities

Boom No. 83A
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
180 Ft. Boom				
30	82.7	181.1	97,200	
32	82.0	180.8	94,500	74,300
34	81.4	180.5	91,900	72,900
36	80.7	180.1	89,200	71,300
38	80.1	179.8	86,500	69,800
40	79.4	179.4	83,900	68,200
45	77.8	178.3	77,600	64,200
50	76.2	177.1	71,700	60,300
55	74.5	175.7	66,200	56,500
60	72.9	174.1	61,200	52,800
65	71.2	172.4	55,300	49,400
70	69.5	170.6	50,000	46,200
75	67.8	168.5	44,500	41,800
80	66.0	166.3	39,700	37,400
85	64.2	163.9	35,500	33,600
90	62.5	161.3	31,900	30,200
95	60.6	158.5	28,600	27,100
100	58.8	155.5	25,700	24,400
105	56.9	152.2	23,100	22,000
110	54.9	148.7	20,700	19,700
115	52.9	145.0	18,600	17,700
120	50.9	141.0	16,600	15,800
125	48.8	136.6	14,800	14,100
130	46.6	131.9	13,100	12,500
135	44.3	126.9	11,500	11,000
140	42.0	121.4	10,000	9,600
145	39.5	115.4	8,600	8,200
150	36.9	108.9	7,300	6,900
155	34.1	101.7	6,000	5,700
160	31.1	93.6	4,800	4,500

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds
190 Ft. Boom			
32	82.4	190.9	66,000
34	81.8	190.6	66,000
36	81.2	190.3	66,000
38	80.6	189.9	66,000
40	80.0	189.6	66,000
45	78.5	188.5	63,600
50	76.9	187.4	59,100
55	75.4	186.1	54,900
60	73.8	184.6	51,000
65	72.2	183.0	47,400
70	70.6	181.3	44,100
75	69.0	179.4	41,100
80	67.4	177.3	38,200
85	65.7	175.0	35,400
90	64.0	172.6	31,700
95	62.3	170.0	28,500
100	60.6	167.2	25,600
105	58.8	164.2	23,000
110	57.0	160.9	20,600
115	55.2	157.5	18,500
120	53.3	153.8	16,500
125	51.4	149.8	14,700
130	49.4	145.6	13,000
135	47.4	141.0	11,500
140	45.3	136.1	10,000
145	43.1	130.8	8,700
150	40.8	125.1	7,400
155	38.4	118.9	6,200
160	35.8	112.1	5,000