

Liftcrane Boom Capacities

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

LIFTING CAPACITIES: Lifting capacities are for a crawler machine when operating on a barge. Machine shall be positively secured to prevent shifting. Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

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 on a firm uniformly supporting surface with machine list not to exceed degrees noted and gantry up. Refer to boom rigging **No. A14196** and Wire Rope Specification chart **No. 8689-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 barge deck 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 barge deck to centerline of boom point shaft.

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.

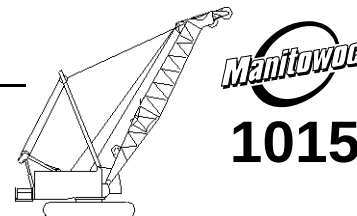
Auxiliary Drum Deduct

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

Maximum Boom Lengths Lifted Unassisted

	Over Front of Blocked Crawlers	Over Rear of Blocked Crawlers	Over Side of Extended Crawlers
List	Boom Length	Boom Length	Boom Length
0 Degree	(a) 190 Ft.	170 Ft.	150 Ft.
1 Degree	(a) 180 Ft.	170 Ft.	150 Ft.
2 Degree	170 Ft.	170 Ft.	150 Ft.
3 Degree	170 Ft.	170 Ft.	140 Ft.
Load block, hook and weight ball on barge deck at start. (a) Upper boom point cannot be attached on 180 Ft. and 190 Ft. boom. Jib cannot be attached on crawler machine while operating on a barge.			

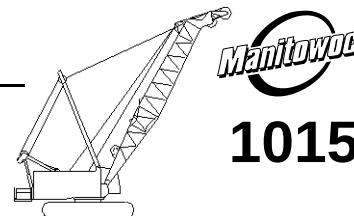
Wire rope guard (**No. A13283**) on boom top must be removed before use of this chart.


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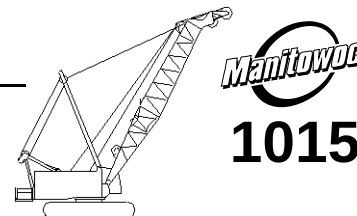
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
50 Ft. Boom							
14	82.0	57.4	264,600 *d	244,000 *d			14
15	80.8	57.2	250,700 *d	241,200 d	214,700 d		15
16	79.6	57.0	243,100 c	216,500 c	194,600 c	176,300 c	16
17	78.5	56.7	218,200 c	196,200 c	177,900 c	162,300 c	17
18	77.3	56.5	197,700 c	179,300 c	163,700 c	150,300 c	18
19	76.1	56.2	180,600 c	165,000 c	151,500 c	139,800 c	19
20	74.9	55.8	166,100 b	152,600 b	140,900 b	130,700 b	20
22	72.5	55.2	142,800 b	132,600 b	123,500 b	115,300 b	22
24	70.0	54.4	125,000 b	116,900 b	109,700 b	103,100 b	24
26	67.5	53.5	110,900	104,400	98,400	93,000	26
28	64.9	52.5	99,400	94,100	89,100	84,600	28
30	62.3	51.3	90,000	85,500	81,300	77,400	30
32	59.6	50.1	82,000	78,200	74,600	71,300	32
34	56.8	48.7	75,200	71,900	68,900	66,000	34
36	53.9	47.2	69,300	66,500	63,800	61,300	36
38	50.9	45.5	64,100	61,700	59,400	57,200	38
40	47.8	43.5	59,600	57,500	55,500	53,500	40
45	38.9	37.7	50,300	48,700	47,300	45,900	45
50	27.6	29.1	43,000	41,900	40,900	39,900	50
60 Ft. Boom							
15	82.4	67.4	252,800 *d				15
16	81.4	67.2	243,800 c	213,100 c			16
17	80.4	67.0	218,700 c	193,400 c	172,900 c		17
18	79.4	66.8	198,200 c	177,000 c	159,400 c	144,700 c	18
19	78.5	66.5	181,000 c	163,000 c	147,800 c	134,900 c	19
20	77.5	66.3	166,500 b	150,900 b	137,700 b	126,300 b	20
22	75.5	65.7	143,200 b	131,200 b	120,900 b	111,800 b	22
24	73.5	65.0	125,300 b	115,900 b	107,600 b	100,200 b	24
26	71.4	64.3	111,100	103,500	96,700	90,500	26
28	69.4	63.5	99,700	93,400	87,700	82,500	28
30	67.3	62.6	90,200	84,900	80,100	75,600	30
32	65.2	61.6	82,200	77,700	73,500	69,700	32
34	63.0	60.5	75,300	71,500	67,900	64,600	34
36	60.8	59.4	69,500	66,100	63,000	60,100	36
38	58.5	58.1	64,300	61,400	58,600	56,100	38
40	56.2	56.7	59,800	57,200	54,800	52,500	40
45	50.0	52.6	50,500	48,600	46,800	45,000	45
50	43.2	47.4	43,300	41,900	40,500	39,200	50
55	35.2	40.7	37,600	36,500	35,400	34,400	55
60	24.9	31.2	32,800	32,000	31,300	30,500	60


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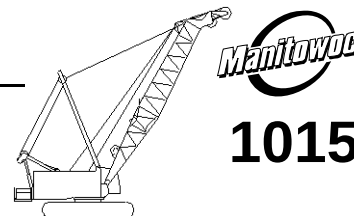
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
70 Ft. Boom							
16	82.6	77.3	244,000 c				16
17	81.8	77.2	218,900 c	190,500 c			17
18	81.0	77.0	198,400 c	174,400 c	155,200 c		18
19	80.1	76.8	181,200 c	160,800 c	144,100 c		19
20	79.3	76.6	166,600 b	149,000 b	134,400 b	122,100 b	20
22	77.6	76.1	143,300 b	129,800 b	118,300 b	108,400 b	22
24	75.9	75.5	125,400 b	114,700 b	105,400 b	97,300 b	24
26	74.2	74.9	111,200	102,500	94,900	88,200	26
28	72.5	74.2	99,700	92,600	86,200	80,400	28
30	70.7	73.5	90,200	84,200	78,800	73,900	30
32	69.0	72.7	82,200	77,100	72,400	68,200	32
34	67.2	71.8	75,400	71,000	66,900	63,200	34
36	65.4	70.8	69,500	65,700	62,100	58,800	36
38	63.5	69.8	64,400	61,000	57,900	54,900	38
40	61.6	68.6	59,900	56,900	54,100	51,500	40
45	56.8	65.4	50,600	48,400	46,200	44,200	45
50	51.6	61.5	43,500	41,800	40,100	38,500	50
55	45.9	56.8	37,800	36,400	35,100	33,900	55
60	39.7	51.0	33,200	32,100	31,000	30,000	60
65	32.3	43.5	29,300	28,400	27,600	26,800	65
70	22.8	33.1	25,900	25,300	24,600	24,000	70
80 Ft. Boom							
17	82.8	87.3	218,000 c				17
18	82.1	87.1	197,400 c				18
19	81.4	87.0	180,300 b	157,700 b			19
20	80.7	86.8	165,700 b	146,200 b	130,400 b		20
22	79.2	86.3	142,400 b	127,500 b	115,000 b	104,400 b	22
24	77.7	85.9	124,600	112,700	102,600	93,900	24
26	76.2	85.3	110,400	100,800	92,500	85,200	26
28	74.7	84.8	99,000	91,000	84,000	77,800	28
30	73.2	84.1	89,500	82,800	76,800	71,500	30
32	71.7	83.4	81,500	75,800	70,700	66,000	32
34	70.2	82.7	74,700	69,800	65,300	61,200	34
36	68.6	81.8	68,900	64,500	60,600	57,000	36
38	67.1	80.9	63,800	60,000	56,500	53,300	38
40	65.5	80.0	59,200	55,900	52,800	49,900	40
45	61.4	77.3	50,000	47,500	45,100	42,900	45
50	57.2	74.1	43,000	41,000	39,100	37,300	50
55	52.7	70.3	37,300	35,800	34,300	32,800	55
60	47.9	65.9	32,700	31,500	30,200	29,100	60
65	42.7	60.7	28,900	27,900	26,900	25,900	65
70	36.9	54.2	25,700	24,800	24,000	23,200	70
75	30.1	46.1	22,900	22,200	21,500	20,900	75
80	21.2	34.8	20,400	19,900	19,400	18,900	80



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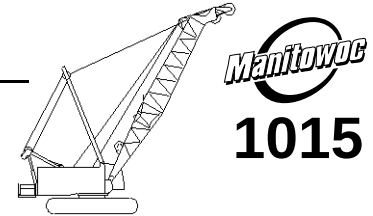
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
90 Ft. Boom							
18	83.0	97.3	197,400 c				18
19	82.4	97.1	180,200 b				19
20	81.7	96.9	165,600 b	144,200 b			20
22	80.4	96.6	142,300 b	125,900 b	112,400 b		22
24	79.1	96.1	124,400	111,400	100,500	91,200	24
26	77.8	95.7	110,300	99,700	90,600	82,800	26
28	76.5	95.2	98,800	90,000	82,400	75,800	28
30	75.2	94.6	89,300	81,900	75,400	69,700	30
32	73.8	94.0	81,400	75,000	69,400	64,400	32
34	72.5	93.3	74,600	69,100	64,200	59,800	34
36	71.1	92.6	68,700	63,900	59,600	55,700	36
38	69.8	91.8	63,600	59,300	55,500	52,000	38
40	68.4	91.0	59,100	55,300	51,900	48,800	40
45	64.9	88.7	49,900	47,000	44,400	41,900	45
50	61.3	85.9	42,800	40,500	38,500	36,500	50
55	57.5	82.8	37,200	35,400	33,700	32,100	55
60	53.6	79.1	32,600	31,100	29,700	28,400	60
65	49.4	74.9	28,800	27,600	26,400	25,300	65
70	44.9	70.0	25,600	24,600	23,600	22,700	70
75	40.1	64.2	22,800	22,000	21,200	20,400	75
80	34.6	57.3	20,400	19,700	19,000	18,400	80
85	28.2	48.6	18,300	17,700	17,200	16,600	85
90	19.9	36.5	16,400	15,900	15,500	15,000	90
100 Ft. Boom							
20	82.5	107.1	165,700 b				20
22	81.4	106.7	142,200 b	124,300 b			22
24	80.2	106.4	124,300	110,100	98,400		24
26	79.0	105.9	110,100	98,500	88,800	80,500	26
28	77.9	105.5	98,600	89,000	80,800	73,700	28
30	76.7	105.0	89,100	81,000	74,000	67,900	30
32	75.5	104.4	81,100	74,200	68,100	62,700	32
34	74.3	103.8	74,300	68,300	63,000	58,300	34
36	73.1	103.2	68,400	63,200	58,500	54,300	36
38	71.9	102.5	63,300	58,700	54,500	50,700	38
40	70.7	101.8	58,800	54,700	50,900	47,600	40
45	67.6	99.7	49,500	46,400	43,500	40,900	45
50	64.4	97.3	42,500	40,000	37,700	35,600	50
55	61.1	94.6	36,800	34,800	33,000	31,200	55
60	57.8	91.5	32,200	30,600	29,100	27,600	60
65	54.2	87.9	28,400	27,100	25,800	24,600	65
70	50.6	83.8	25,200	24,100	23,000	22,000	70
75	46.6	79.2	22,500	21,500	20,600	19,700	75
80	42.5	73.9	20,100	19,300	18,500	17,800	80
85	37.9	67.6	18,000	17,300	16,700	16,000	85
90	32.7	60.2	16,100	15,600	15,000	14,400	90
95	26.7	50.9	14,500	14,000	13,500	13,100	95
100	18.8	38.0	12,900	12,600	12,200	11,800	100


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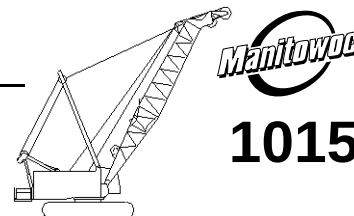
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
110 Ft. Boom							
22	82.2	116.9	142,100 b				22
24	81.1	116.5	124,200	108,800			24
26	80.1	116.2	110,000	97,500	87,100		26
28	79.0	115.7	98,500	88,100	79,400	71,900	28
30	77.9	115.3	89,000	80,200	72,700	66,300	30
32	76.9	114.8	81,000	73,500	67,000	61,300	32
34	75.8	114.2	74,200	67,700	62,000	57,000	34
36	74.7	113.7	68,300	62,600	57,600	53,100	36
38	73.6	113.1	63,200	58,100	53,700	49,700	38
40	72.5	112.4	58,700	54,200	50,200	46,600	40
45	69.7	110.6	49,400	46,000	42,900	40,100	45
50	66.9	108.4	42,400	39,700	37,200	34,900	50
55	64.0	106.0	36,700	34,600	32,600	30,700	55
60	61.0	103.2	32,200	30,400	28,700	27,200	60
65	58.0	100.2	28,400	26,900	25,500	24,200	65
70	54.8	96.7	25,200	23,900	22,700	21,600	70
75	51.5	92.7	22,400	21,400	20,400	19,400	75
80	48.0	88.3	20,100	19,200	18,300	17,400	80
85	44.3	83.2	18,000	17,200	16,500	15,700	85
90	40.3	77.5	16,200	15,500	14,800	14,200	90
95	36.0	70.8	14,500	13,900	13,400	12,800	95
100	31.1	62.9	13,000	12,600	12,100	11,600	100
105	25.3	53.0	11,700	11,300	10,900	10,500	105
110	17.8	39.5	10,400	10,100	9,800	9,400	110



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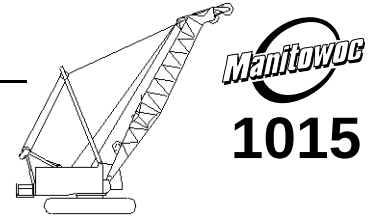
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120 Ft. Boom							
22	82.8	127.0	142,000 b				22
24	81.9	126.7	124,100	107,500			24
26	80.9	126.3	109,800	96,400	85,400		26
28	79.9	125.9	98,300	87,100	77,800	70,000	28
30	78.9	125.5	88,800	79,300	71,300	64,500	30
32	78.0	125.1	80,700	72,600	65,700	59,800	32
34	77.0	124.6	73,900	66,900	60,800	55,600	34
36	76.0	124.1	68,000	61,900	56,500	51,800	36
38	75.0	123.5	62,900	57,400	52,700	48,500	38
40	74.0	122.9	58,300	53,500	49,300	45,500	40
45	71.5	121.2	49,100	45,400	42,100	39,100	45
50	68.9	119.3	42,000	39,100	36,400	34,000	50
55	66.3	117.1	36,400	34,000	31,800	29,800	55
60	63.7	114.7	31,800	29,900	28,000	26,400	60
65	60.9	111.9	28,000	26,400	24,900	23,400	65
70	58.1	108.8	24,800	23,400	22,100	20,900	70
75	55.2	105.4	22,100	20,900	19,800	18,700	75
80	52.2	101.6	19,700	18,700	17,700	16,800	80
85	49.1	97.3	17,600	16,700	15,900	15,100	85
90	45.8	92.5	15,800	15,000	14,300	13,600	90
95	42.3	87.1	14,200	13,500	12,800	12,200	95
100	38.5	80.9	12,700	12,100	11,500	11,000	100
105	34.4	73.9	11,400	10,900	10,400	9,900	105
110	29.7	65.5	10,200	9,700	9,300	8,900	110
115	24.2	55.1	9,000	8,700	8,300	7,900	115
120	17.0	40.9	8,000	7,700	7,400	7,100	120


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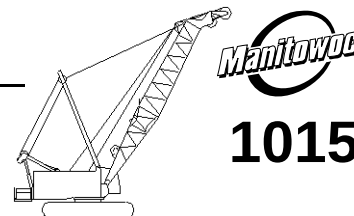
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130 Ft. Boom							
24	82.5	136.8	123,800				24
26	81.6	136.5	109,500	95,100			26
28	80.7	136.1	98,000	86,000	76,300		28
30	79.8	135.7	88,400	78,300	69,900	62,800	30
32	78.9	135.3	80,400	71,700	64,500	58,200	32
34	78.0	134.9	73,600	66,100	59,700	54,100	34
36	77.1	134.4	67,700	61,100	55,400	50,500	36
38	76.2	133.9	62,500	56,700	51,700	47,200	38
40	75.3	133.3	58,000	52,800	48,300	44,300	40
45	73.0	131.8	48,700	44,800	41,300	38,100	45
50	70.6	130.1	41,600	38,500	35,700	33,100	50
55	68.3	128.1	36,000	33,500	31,200	29,000	55
60	65.9	125.8	31,400	29,300	27,400	25,600	60
65	63.4	123.3	27,600	25,900	24,300	22,700	65
70	60.9	120.6	24,400	22,900	21,600	20,200	70
75	58.3	117.5	21,700	20,400	19,200	18,100	75
80	55.6	114.1	19,300	18,200	17,200	16,200	80
85	52.9	110.3	17,300	16,300	15,400	14,500	85
90	50.0	106.2	15,400	14,600	13,800	13,000	90
95	47.0	101.6	13,800	13,100	12,400	11,700	95
100	43.9	96.5	12,400	11,700	11,100	10,500	100
105	40.5	90.7	11,100	10,500	9,900	9,400	105
110	36.9	84.2	9,900	9,400	8,900	8,400	110
115	32.9	76.8	8,800	8,300	7,900	7,500	115
120	28.5	68.0	7,800	7,400	7,000	6,600	120
125	23.2	57.1	6,800	6,500	6,200	5,800	125
130	16.3	42.2	5,900	5,700	5,400	5,100	130



Liftcrane Boom Capacities

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

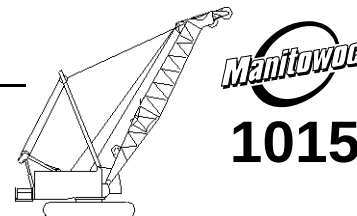
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
140 Ft. Boom							
24	83.0	146.9	123,600				24
26	82.2	146.6	109,300				26
28	81.4	146.3	97,800	85,000			28
30	80.5	145.9	88,200	77,400	68,600		30
32	79.7	145.5	80,100	70,900	63,200	56,700	32
34	78.9	145.1	73,300	65,300	58,500	52,700	34
36	78.0	144.7	67,300	60,300	54,400	49,200	36
38	77.2	144.2	62,200	56,000	50,700	46,000	38
40	76.4	143.7	57,600	52,100	47,400	43,200	40
45	74.2	142.3	48,400	44,200	40,400	37,100	45
50	72.1	140.7	41,300	37,900	34,900	32,200	50
55	69.9	138.8	35,600	32,900	30,400	28,200	55
60	67.7	136.8	31,000	28,800	26,700	24,800	60
65	65.4	134.5	27,200	25,300	23,600	22,000	65
70	63.2	132.0	24,000	22,400	20,900	19,500	70
75	60.8	129.2	21,300	19,900	18,600	17,400	75
80	58.4	126.2	18,900	17,700	16,600	15,500	80
85	55.9	122.8	16,800	15,800	14,800	13,900	85
90	53.4	119.1	15,000	14,100	13,200	12,400	90
95	50.8	115.1	13,400	12,600	11,800	11,100	95
100	48.0	110.7	11,900	11,200	10,500	9,900	100
105	45.2	105.7	10,600	10,000	9,400	8,800	105
110	42.2	100.3	9,400	8,900	8,300	7,800	110
115	38.9	94.2	8,400	7,900	7,400	6,900	115
120	35.5	87.4	7,400	6,900	6,500	6,100	120
125	31.7	79.6	6,400	6,000	5,700	5,300	125
130	27.4	70.3	5,600	5,200	4,900	4,600	130
135	22.3	59.0	4,800	4,500	4,200		135
140	15.6	43.5	4,000				140


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Liftcrane Boom Capacities

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

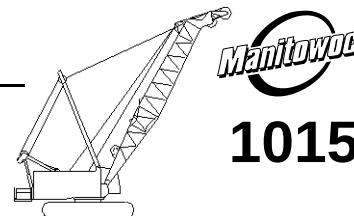
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
150 Ft. Boom							
26	82.7	156.7	109,000				26
28	82.0	156.4	97,500	84,000			28
30	81.2	156.1	87,900	76,500			30
32	80.4	155.7	79,800	70,100	62,000		32
34	79.6	155.3	73,000	64,500	57,400	51,500	34
36	78.9	154.9	67,100	59,600	53,400	48,000	36
38	78.1	154.5	61,900	55,300	49,800	44,900	38
40	77.3	154.0	57,400	51,500	46,500	42,100	40
45	75.3	152.7	48,100	43,600	39,700	36,200	45
50	73.3	151.2	41,000	37,400	34,300	31,400	50
55	71.3	149.5	35,300	32,500	29,900	27,500	55
60	69.3	147.6	30,800	28,400	26,200	24,200	60
65	67.2	145.5	27,000	25,000	23,100	21,400	65
70	65.1	143.2	23,800	22,100	20,500	19,000	70
75	62.9	140.7	21,000	19,600	18,200	16,900	75
80	60.8	137.9	18,700	17,400	16,200	15,100	80
85	58.5	134.8	16,600	15,500	14,400	13,400	85
90	56.2	131.5	14,800	13,800	12,900	12,000	90
95	53.9	127.9	13,200	12,300	11,500	10,700	95
100	51.4	123.9	11,700	10,900	10,200	9,500	100
105	48.9	119.6	10,400	9,700	9,100	8,400	105
110	46.3	114.9	9,200	8,600	8,000	7,400	110
115	43.5	109.7	8,200	7,600	7,100	6,500	115
120	40.6	104.0	7,200	6,700	6,200	5,700	120
125	37.5	97.6	6,300	5,800	5,400	5,000	125
130	34.2	90.4	5,400	5,000	4,600	4,300	130
135	30.5	82.2	4,700	4,300			135


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Liftcrane Boom Capacities

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

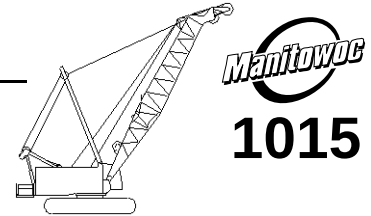
Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds	1 Degree List Boom Capacity Pounds	2 Degree List Boom Capacity Pounds	3 Degree List Boom Capacity Pounds	Oper. Radius Feet
160 Ft. Boom							
28	82.5	166.5	97,200				28
30	81.7	166.2	87,600	75,600			30
32	81.0	165.9	79,600	69,200	60,800		32
34	80.3	165.5	72,700	63,700	56,300		34
36	79.6	165.1	66,700	58,900	52,300	46,800	36
38	78.8	164.7	61,600	54,600	48,800	43,800	38
40	78.1	164.3	57,000	50,900	45,600	41,000	40
45	76.3	163.1	47,700	43,000	38,900	35,200	45
50	74.4	161.7	40,600	36,800	33,500	30,500	50
55	72.5	160.1	34,900	31,900	29,100	26,700	55
60	70.6	158.3	30,300	27,800	25,500	23,400	60
65	68.7	156.4	26,500	24,400	22,500	20,700	65
70	66.7	154.2	23,300	21,500	19,800	18,300	70
75	64.8	151.9	20,600	19,000	17,600	16,200	75
80	62.8	149.3	18,200	16,900	15,600	14,400	80
85	60.7	146.5	16,200	15,000	13,800	12,800	85
90	58.6	143.5	14,300	13,300	12,300	11,300	90
95	56.5	140.2	12,700	11,800	10,900	10,000	95
100	54.3	136.6	11,300	10,400	9,600	8,900	100
105	52.0	132.8	10,000	9,200	8,500	7,800	105
110	49.7	128.6	8,800	8,100	7,500	6,800	110
115	47.2	124.0	7,700	7,100	6,500	6,000	115
120	44.7	119.0	6,700	6,200	5,700	5,100	120
125	42.1	113.5	5,800	5,300	4,900	4,400	125
130	39.3	107.5	5,000	4,500	4,100		130
135	36.3	100.8	4,200				135


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Liftcrane Boom Capacities

Boom No. 83A
53,000 Lb. Counterweight
23 Ft. 6 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	176.6	96,900				28
30	82.2	176.3	87,300				30
32	81.5	176.0	79,200	68,300			32
34	80.9	175.7	72,300	62,900	55,200		34
36	80.2	175.3	66,400	58,100	51,300		36
38	79.5	174.9	61,200	53,900	47,800	42,600	38
40	78.8	174.5	56,600	50,100	44,600	39,900	40
45	77.1	173.4	47,300	42,300	38,000	34,300	45
50	75.3	172.1	40,200	36,200	32,700	29,700	50
55	73.6	170.6	34,500	31,300	28,400	25,900	55
60	71.8	168.9	29,900	27,300	24,900	22,700	60
65	70.0	167.1	26,100	23,900	21,800	20,000	65
70	68.2	165.1	22,900	21,000	19,200	17,600	70
75	66.4	163.0	20,200	18,500	17,000	15,600	75
80	64.5	160.6	17,800	16,400	15,000	13,800	80
85	62.6	158.0	15,700	14,500	13,300	12,200	85
90	60.7	155.2	13,900	12,800	11,700	10,700	90
95	58.7	152.2	12,300	11,300	10,400	9,500	95
100	56.7	148.9	10,900	10,000	9,100	8,300	100
105	54.6	145.4	9,500	8,700	8,000	7,300	105
110	52.5	141.6	8,400	7,700	7,000	6,300	110
115	50.3	137.5	7,300	6,700	6,000	5,400	115
120	48.1	133.0	6,300	5,700	5,200	4,600	120
125	45.7	128.2	5,400	4,900	4,400		125
130	43.3	122.9	4,600	4,100			130


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Liftcrane Boom Capacities

Boom No. 83A
53,000 Lb. Counterweight
23 Ft. 6 in. Crawlers Extended
Crawler Machine on a Barge
0 Degree thru 3 Degree Machine List
No Travel - 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	186.4	87,000	
32	82.0	186.1	78,900	67,500
34	81.4	185.8	72,000	62,100
36	80.7	185.5	66,000	57,400
38	80.1	185.1	60,800	53,200
40	79.4	184.7	56,300	49,400
45	77.8	183.6	47,000	41,700
50	76.2	182.4	39,800	35,600
55	74.5	181.0	34,100	30,700
60	72.9	179.5	29,500	26,700
65	71.2	177.8	25,700	23,300
70	69.5	175.9	22,500	20,400
75	67.8	173.9	19,700	18,000
80	66.0	171.7	17,300	15,800
85	64.2	169.3	15,300	13,900
90	62.5	166.7	13,400	12,300
95	60.6	163.9	11,800	10,800
100	58.8	160.8	10,400	9,400
105	56.9	157.6	9,100	8,200
110	54.9	154.1	7,900	7,100
115	52.9	150.4	6,800	6,100
120	50.9	146.3	5,800	5,200
125	48.8	142.0	5,000	4,400
130	46.6	137.3	4,100	

Oper. Radius Feet	Boom Angle Deg.	Boom Point Elev. Feet	0 Degree List Boom Capacity Pounds
190 Ft. Boom			
32	82.4	196.3	66,000 *
34	81.8	196.0	66,000 *
36	81.2	195.6	65,700
38	80.6	195.3	60,500
40	80.0	194.9	55,900
45	78.5	193.9	46,600
50	76.9	192.7	39,400
55	75.4	191.4	33,800
60	73.8	190.0	29,200
65	72.2	188.4	25,300
70	70.6	186.6	22,100
75	69.0	184.7	19,400
80	67.4	182.6	17,000
85	65.7	180.4	14,900
90	64.0	177.9	13,100
95	62.3	175.3	11,500
100	60.6	172.5	10,100
105	58.8	169.5	8,800
110	57.0	166.3	7,600
115	55.2	162.8	6,500
120	53.3	159.1	5,500
125	51.4	155.2	4,600