



Liftcrane Boom Capacities

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

Meets
ANSI B30.5
Requirements

999 SERIES 3

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load over end of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*). Capacities indicated by (b) require 12,500 Lb. minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

250 Ft. thru 290 Ft. boom lengths require only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Note: 22L boom top **No. 196142** or **No. 417403** required for capacities greater than or equal to 462,500 Lbs.

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib 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 in a level position on a firm uniformly supporting surface with gantry up. Drive and idler tumbler must be properly blocked so

that centerline of tumbler becomes tipping fulcrum. Swing is limited to that sector shown on Operating Range Diagram **No. 8224-A**. Refer to boom rigging **No. 195459** (No. 82) or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8223-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 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 ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps or four 1-3/8 in. boom pendants, 219,600 Lb. crane counterweight, two 22,000 Lb. and two 18,000 Lb. carbody counterweights.

Boom Catwalks Deduct

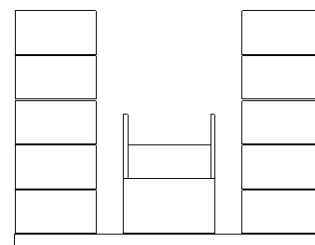
Deduct 600 Lbs. from capacities when boom catwalks are attached.

Maximum Boom and Jib Lengths Lifted Unassisted Over End of Blocked Crawlers

Boom Length	Jib No. 134
(a) 290 Ft.	—
280 Ft.	—
270 Ft.	30 Ft.
260 Ft.	60 Ft.
250 Ft.	80 Ft.
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 290 Ft. boom.	

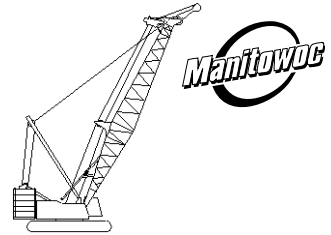
Deduct From Capacities When Jib Is Attached

Jib Length	Jib No. 134
30 Ft.	2,700 Lbs.
40 Ft.	3,500 Lbs.
50 Ft.	4,300 Lbs.
60 Ft.	5,100 Lbs.
70 Ft.	6,100 Lbs.
80 Ft.	7,100 Lbs.



219,600 Lb. Crane Counterweight
10 Side Boxes - 1 Center Box

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.



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Oper. Rad. Feet	Boom Capacity Pounds
60 Ft. BOOM	
15	551,200* ¹

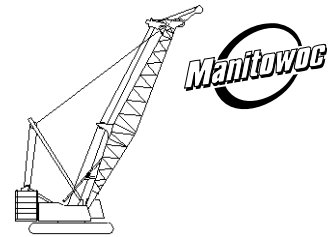
¹ Note: Special equipment required.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.3	500,000 * ²
17	82.0	77.1	462,500 * ²
18	81.1	76.9	438,700 * ^b
19	80.3	76.7	417,100 * ^b
20	79.5	76.5	397,500 * ^b
22	77.8	76.0	363,200 * ^b
24	76.1	75.5	334,200 * ^b
26	74.4	74.9	309,300 *
28	72.7	74.2	287,700 *
30	70.9	73.5	268,900 *
32	69.2	72.7	252,200 *
34	67.4	71.8	237,400 *
36	65.6	70.9	224,100 *
38	63.7	69.9	212,200 *
40	61.9	68.7	201,400 *
42	60.0	67.5	191,600 *
44	58.0	66.3	182,600 *
46	56.0	64.9	173,700 *
48	54.0	63.4	162,700 *
50	51.9	61.7	152,600 *
55	46.3	57.1	130,700 *
60	40.1	51.4	112,400 *
65	32.9	44.2	96,400 *
70	23.7	34.2	76,300 *
80 Ft. BOOM			
17	83.0	87.2	447,700 * ^b
18	82.3	87.1	438,000 * ^b
19	81.5	86.9	416,400 * ^b
20	80.8	86.7	396,900 * ^b
22	79.3	86.3	362,600 * ^b
24	77.9	85.8	333,600 * ^b
26	76.4	85.3	308,700 *
28	74.9	84.7	287,100 *
30	73.4	84.1	268,300 *
32	71.9	83.4	251,600 *
34	70.4	82.7	236,800 *
36	68.8	81.9	223,600 *
38	67.3	81.0	211,700 *
40	65.7	80.1	200,900 *
42	64.1	79.0	191,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
44	62.4	78.0	182,100 *
46	60.8	76.8	173,900 *
48	59.1	75.6	166,300 *
50	57.4	74.3	159,200 *
55	52.9	70.6	137,400 *
60	48.2	66.2	119,400 *
65	43.0	61.0	104,300 *
70	37.3	54.8	91,100 *
75	30.6	46.9	79,100 *
80	22.0	36.0	65,700 *
90 Ft. BOOM			
19	82.5	97.0	403,100 * ^b
20	81.8	96.9	396,400 * ^b
22	80.5	96.5	362,100 * ^b
24	79.2	96.1	333,100 * ^b
26	77.9	95.6	308,300 *
28	76.6	95.1	286,700 *
30	75.3	94.6	267,900 *
32	74.0	94.0	251,200 *
34	72.6	93.3	236,400 *
36	71.3	92.6	223,200 *
38	69.9	91.8	211,300 *
40	68.6	91.0	200,500 *
42	67.2	90.2	190,700 *
44	65.8	89.2	181,700 *
46	64.3	88.2	173,500 *
48	62.9	87.2	166,000 *
50	61.4	86.1	159,000 *
55	57.7	83.0	142,500 *
60	53.8	79.4	124,500 *
65	49.6	75.2	109,500 *
70	45.2	70.4	96,700 *
75	40.4	64.7	85,500 *
80	35.0	57.9	75,500 *
85	28.7	49.4	66,200 *
90	20.7	37.7	57,000 *
100 Ft. BOOM			
20	82.7	107.0	385,900 * ^b
22	81.5	106.7	361,900 * ^b
24	80.3	106.3	332,900 * ^b
26	79.2	105.9	308,000 *
28	78.0	105.4	286,500 *
30	76.8	104.9	267,700 *
32	75.6	104.4	251,000 *
34	74.4	103.8	236,200 *
36	73.2	103.2	223,000 *
38	72.0	102.5	211,100 *
40	70.8	101.8	200,300 *
42	69.6	101.0	190,500 *
44	68.3	100.2	181,600 *
46	67.1	99.3	173,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
48	65.8	98.4	165,800 *
50	64.6	97.4	158,900 *
55	61.3	94.7	143,600 *
60	57.9	91.6	128,600 *
65	54.4	88.1	113,600 *
70	50.8	84.1	100,800 *
75	46.9	79.5	89,800 *
80	42.7	74.3	80,200 *
85	38.2	68.1	71,600 *
90	33.1	60.8	63,700 *
95	27.2	51.7	56,300 *
100	19.5	39.4	48,700 *
110 Ft. BOOM			
22	82.3	116.8	353,700 *
24	81.2	116.5	332,400 *
26	80.2	116.1	307,500 *
28	79.1	115.7	286,000 *
30	78.0	115.2	267,100 *
32	77.0	114.7	250,500 *
34	75.9	114.2	235,700 *
36	74.8	113.6	222,500 *
38	73.7	113.0	210,600 *
40	72.6	112.4	199,800 *
42	71.5	111.7	190,000 *
44	70.4	111.0	181,100 *
46	69.3	110.2	172,900 *
48	68.2	109.4	165,300 *
50	67.0	108.5	158,400 *
55	64.1	106.1	143,100 *
60	61.2	103.4	130,300 *
65	58.1	100.3	116,500 *
70	55.0	96.9	103,700 *
75	51.7	93.0	92,700 *
80	48.2	88.6	83,200 *
85	44.5	83.6	74,800 *
90	40.6	77.9	67,300 *
95	36.3	71.4	60,400 *
100	31.5	63.6	54,000 *
105	25.8	54.0	47,900 *
110	18.6	40.9	41,600 *

² See note on page 1.



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Meets
ANSI B30.5
Requirements

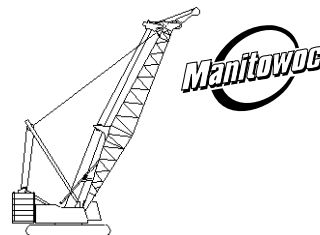
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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	82.9	126.9	324,500 *
24	82.0	126.6	324,500 *
26	81.0	126.3	307,200 *
28	80.0	125.9	285,700 *
30	79.1	125.5	266,800 *
32	78.1	125.0	250,200 *
34	77.1	124.5	235,400 *
36	76.1	124.0	222,200 *
38	75.1	123.5	210,300 *
40	74.1	122.9	199,500 *
42	73.1	122.3	189,700 *
44	72.1	121.6	180,800 *
46	71.1	120.9	172,600 *
48	70.1	120.1	165,100 *
50	69.1	119.3	158,100 *
55	66.5	117.2	142,800 *
60	63.8	114.8	130,000 *
65	61.1	112.0	117,100 *
70	58.3	109.0	105,500 *
75	55.4	105.6	95,200 *
80	52.4	101.8	85,700 *
85	49.3	97.6	77,300 *
90	46.0	92.8	69,900 *
95	42.5	87.5	63,200 *
100	38.7	81.4	57,200 *
105	34.6	74.5	51,600 *
110	30.0	66.2	46,300 *
115	24.7	56.1	41,100 *
120	17.7	42.4	35,800 *
130 Ft. BOOM			
24	82.6	136.7	295,000 *
26	81.7	136.4	295,000 *
28	80.8	136.1	285,400 *
30	79.9	135.7	266,500 *
32	79.0	135.3	249,900 *
34	78.1	134.8	235,100 *
36	77.2	134.4	221,900 *
38	76.3	133.8	210,000 *
40	75.4	133.3	199,300 *
42	74.5	132.7	189,500 *
44	73.5	132.1	180,500 *
46	72.6	131.5	172,300 *
48	71.7	130.8	164,800 *
50	70.7	130.1	157,800 *
55	68.4	128.1	142,600 *
60	66.0	125.9	129,800 *
65	63.5	123.4	117,000 *
70	61.0	120.7	105,500 *
75	58.4	117.7	95,800 *
80	55.8	114.3	87,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
85	53.0	110.6	79,400 *
90	50.2	106.5	72,000 *
95	47.2	101.9	65,400 *
100	44.0	96.9	59,500 *
105	40.7	91.2	54,100 *
110	37.1	84.8	49,100 *
115	33.2	77.4	44,400 *
120	28.8	68.7	39,900 *
125	23.6	58.1	35,500 *
130	17.0	43.9	30,900 *
140 Ft. BOOM			
26	82.3	146.5	295,000 *
28	81.5	146.2	285,000 *
30	80.6	145.9	266,200 *
32	79.8	145.5	249,500 *
34	79.0	145.1	234,800 *
36	78.1	144.6	221,600 *
38	77.3	144.2	209,700 *
40	76.4	143.7	198,900 *
42	75.6	143.1	189,100 *
44	74.7	142.6	180,200 *
46	73.9	142.0	172,000 *
48	73.0	141.3	164,400 *
50	72.2	140.7	157,500 *
55	70.0	138.9	142,200 *
60	67.8	136.8	129,400 *
65	65.5	134.6	116,800 *
70	63.3	132.1	105,300 *
75	60.9	129.3	95,600 *
80	58.5	126.3	87,300 *
85	56.1	123.0	80,100 *
90	53.5	119.3	73,600 *
95	50.9	115.3	67,000 *
100	48.2	110.9	61,100 *
105	45.3	106.1	55,700 *
110	42.3	100.7	50,900 *
115	39.1	94.7	46,400 *
120	35.7	88.0	42,200 *
125	31.9	80.2	38,200 *
130	27.7	71.2	34,400 *
135	22.7	60.1	30,600 *
140	16.3	45.2	26,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	265,500 *
28	82.0	156.3	261,400 *
30	81.3	156.0	255,600 *
32	80.5	155.7	248,900 *
34	79.7	155.3	234,200 *
36	78.9	154.9	221,000 *
38	78.2	154.4	209,100 *
40	77.4	154.0	198,300 *
42	76.6	153.5	188,500 *
44	75.8	152.9	179,600 *
46	75.0	152.4	171,400 *
48	74.2	151.8	163,900 *
50	73.4	151.2	156,900 *
55	71.4	149.5	141,700 *
60	69.4	147.7	128,900 *
65	67.3	145.6	116,500 *
70	65.2	143.3	104,900 *
75	63.0	140.8	95,200 *
80	60.9	138.0	86,900 *
85	58.6	135.0	79,800 *
90	56.3	131.7	73,500 *
95	54.0	128.1	68,000 *
100	51.6	124.2	62,100 *
105	49.1	119.9	56,800 *
110	46.4	115.2	52,000 *
115	43.7	110.1	47,500 *
120	40.8	104.4	43,500 *
125	37.7	98.1	39,700 *
130	34.4	91.0	36,100 *
135	30.8	83.0	32,700 *
140	26.7	73.5	29,300 *
145	21.9	62.0	26,000 *
150	15.7	46.6	22,400 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

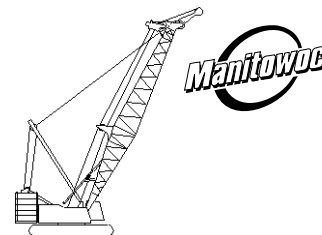
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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.4	236,000 *
30	81.8	166.1	236,000 *
32	81.1	165.8	236,000 *
34	80.4	165.4	233,800 *
36	79.6	165.1	220,600 *
38	78.9	164.7	208,700 *
40	78.2	164.2	197,900 *
42	77.4	163.8	188,100 *
44	76.7	163.3	179,200 *
46	76.0	162.8	171,000 *
48	75.2	162.2	163,500 *
50	74.5	161.6	156,500 *
55	72.6	160.1	141,200 *
60	70.7	158.3	128,500 *
65	68.8	156.4	116,300
70	66.8	154.3	104,700
75	64.9	152.0	94,900
80	62.9	149.4	86,600
85	60.8	146.7	79,500
90	58.7	143.7	73,200
95	56.6	140.4	67,700
100	54.4	136.8	62,900
105	52.1	133.0	57,800 *
110	49.8	128.8	53,000 *
115	47.4	124.3	48,600 *
120	44.9	119.3	44,500 *
125	42.2	113.9	40,800 *
130	39.4	108.0	37,300 *
135	36.5	101.4	34,100 *
140	33.3	94.0	31,000 *
145	29.8	85.6	28,000 *
150	25.8	75.8	25,100 *
155	21.2	63.8	22,100 *
160	15.2	47.8	18,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.5	232,700 *
30	82.3	176.3	228,400 *
32	81.6	175.9	224,100 *
34	80.9	175.6	219,800 *
36	80.3	175.2	215,700 *
38	79.6	174.9	208,300 *
40	78.9	174.5	197,500 *
42	78.2	174.0	187,800 *
44	77.5	173.6	178,800 *
46	76.8	173.1	170,600 *
48	76.1	172.6	163,100 *
50	75.4	172.0	156,100 *
55	73.7	170.6	140,900 *
60	71.9	169.0	128,100 *
65	70.1	167.2	116,100
70	68.3	165.2	104,500
75	66.4	163.0	94,700
80	64.6	160.7	86,400
85	62.7	158.1	79,300
90	60.8	155.3	73,000
95	58.8	152.3	67,500
100	56.8	149.1	62,600
105	54.7	145.6	58,300
110	52.6	141.8	53,800 *
115	50.4	137.7	49,500 *
120	48.2	133.3	45,400 *
125	45.9	128.5	41,800 *
130	43.4	123.3	38,300 *
135	40.9	117.7	35,100 *
140	38.2	111.4	32,100 *
145	35.3	104.5	29,300 *
150	32.2	96.9	26,600 *
155	28.8	88.1	24,000 *
160	25.0	77.9	21,400 *
165	20.5	65.6	18,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	206,500 *
32	82.1	186.1	206,500 *
34	81.4	185.7	206,500 *
36	80.8	185.4	204,700 *
38	80.2	185.0	200,800 *
40	79.5	184.7	195,000 *
42	78.9	184.3	186,700 *
44	78.2	183.8	177,900 *
46	77.6	183.4	170,000 *
48	76.9	182.9	162,600 *
50	76.2	182.4	155,700 *
55	74.6	181.0	140,500 *
60	72.9	179.5	127,700 *
65	71.2	177.8	115,800
70	69.5	176.0	104,200
75	67.8	173.9	94,400
80	66.1	171.7	86,100
85	64.3	169.3	78,900
90	62.5	166.8	72,700
95	60.7	164.0	67,200
100	58.9	161.0	62,300
105	57.0	157.8	57,900
110	55.0	154.3	54,000
115	53.0	150.6	50,100 *
120	51.0	146.6	46,100 *
125	48.9	142.3	42,400 *
130	46.7	137.6	39,000 *
135	44.5	132.6	35,800 *
140	42.1	127.2	32,900 *
145	39.7	121.2	30,100 *
150	37.1	114.8	27,500 *
155	34.3	107.6	25,000 *
160	31.3	99.6	22,700 *
165	28.0	90.6	20,300 *
170	24.3	80.1	18,000 *
175	19.9	67.3	15,700 *



Liftcrane Boom Capacities

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Requirements

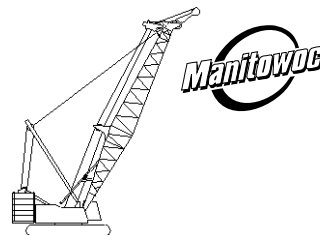
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219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
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No Travel - Limited Swing

999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	196,800 *
34	81.9	195.9	193,600 *
36	81.3	195.6	190,500 *
38	80.7	195.2	184,500 *
40	80.1	194.8	177,000 *
42	79.4	194.5	170,300 *
44	78.8	194.1	164,200 *
46	78.2	193.6	158,700 *
48	77.6	193.2	153,600 *
50	77.0	192.7	148,900 *
55	75.4	191.4	136,000 *
60	73.9	190.0	124,300 *
65	72.3	188.4	114,200 *
70	70.7	186.6	103,800 *
75	69.1	184.7	94,100 *
80	67.4	182.7	85,700 *
85	65.8	180.4	78,600 *
90	64.1	178.0	72,300 *
95	62.4	175.4	66,800 *
100	60.7	172.6	61,900 *
105	58.9	169.7	57,500 *
110	57.1	166.5	53,600 *
115	55.3	163.0	50,100 *
120	53.4	159.3	46,800 *
125	51.5	155.4	43,100 *
130	49.5	151.2	39,700 *
135	47.5	146.7	36,500 *
140	45.4	141.8	33,600 *
145	43.2	136.6	30,800 *
150	40.9	130.9	28,200 *
155	38.5	124.7	25,800 *
160	36.0	118.0	23,500 *
165	33.3	110.6	21,300 *
170	30.4	102.3	19,100 *
175	27.2	93.0	17,000 *
180	23.6	82.1	15,000 *
185	19.4	69.0	12,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. BOOM			
32	82.9	206.3	177,000 *
34	82.3	206.0	177,000 *
36	81.7	205.7	177,000 *
38	81.1	205.4	176,400 *
40	80.6	205.0	172,200 *
42	80.0	204.6	165,600 *
44	79.4	204.3	159,600 *
46	78.8	203.8	154,100 *
48	78.2	203.4	149,200 *
50	77.6	203.0	144,600 *
55	76.2	201.7	133,400 *
60	74.7	200.4	121,900 *
65	73.2	198.9	112,100 *
70	71.7	197.2	103,500 *
75	70.2	195.4	93,700 *
80	68.6	193.5	85,400 *
85	67.1	191.4	78,200 *
90	65.5	189.1	71,900 *
95	63.9	186.7	66,400 *
100	62.3	184.1	61,500 *
105	60.6	181.3	57,200 *
110	59.0	178.3	53,200 *
115	57.3	175.1	49,700 *
120	55.5	171.7	46,500 *
125	53.8	168.1	43,500 *
130	52.0	164.2	40,000 *
135	50.1	160.1	36,900 *
140	48.2	155.7	33,900 *
145	46.2	150.9	31,200 *
150	44.2	145.9	28,600 *
155	42.1	140.4	26,200 *
160	39.8	134.5	24,000 *
165	37.5	128.1	21,800 *
170	35.1	121.1	19,800 *
175	32.4	113.5	17,800 *
180	29.6	104.9	15,900 *
185	26.5	95.3	14,000 *
190	23.0	84.1	12,100 *
195	18.9	70.6	10,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
210 Ft. BOOM			
34	82.7	216.1	171,300 *
36	82.1	215.8	169,200 *
38	81.6	215.5	166,900 *
40	81.0	215.2	164,500 *
42	80.5	214.8	160,800 *
44	79.9	214.4	155,000 *
46	79.4	214.1	149,600 *
48	78.8	213.6	144,800 *
50	78.2	213.2	140,300 *
55	76.8	212.1	130,500 *
60	75.4	210.8	119,500 *
65	74.0	209.3	109,900 *
70	72.6	207.8	101,500 *
75	71.1	206.1	93,400 *
80	69.7	204.2	85,100 *
85	68.2	202.3	77,900 *
90	66.7	200.1	71,600 *
95	65.2	197.8	66,100 *
100	63.7	195.4	61,200 *
105	62.2	192.8	56,900 *
110	60.6	190.0	52,900 *
115	59.0	187.0	49,400 *
120	57.4	183.8	46,200 *
125	55.8	180.4	43,200 *
130	54.1	176.8	40,400 *
135	52.4	173.0	37,200 *
140	50.6	169.0	34,300 *
145	48.8	164.6	31,500 *
150	46.9	160.0	29,000 *
155	45.0	155.1	26,600 *
160	43.0	149.8	24,400 *
165	41.0	144.1	22,300 *
170	38.8	138.0	20,300 *
175	36.6	131.4	18,300 *
180	34.2	124.2	16,500 *
185	31.6	116.3	14,700 *
190	28.9	107.5	13,000 *
195	25.8	97.6	11,300 *
200	22.4	86.1	9,600 *
205	18.4	72.2	7,800 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

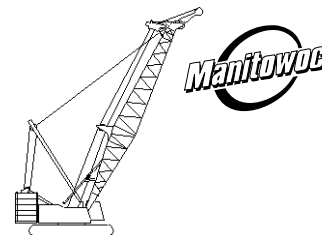
Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. BOOM			
34	83.0	226.2	155,100 *
36	82.5	225.9	154,700 *
38	82.0	225.6	154,300 *
40	81.4	225.3	153,800 *
42	80.9	225.0	153,200 *
44	80.4	224.6	150,500 *
46	79.8	224.2	145,300 *
48	79.3	223.9	140,500 *
50	78.8	223.4	136,100 *
55	77.5	222.3	126,600 *
60	76.1	221.1	117,000 *
65	74.8	219.8	107,600 *
70	73.4	218.3	99,500 *
75	72.0	216.7	92,300 *
80	70.7	214.9	84,700 *
85	69.3	213.0	77,500 *
90	67.9	211.0	71,300 *
95	66.4	208.8	65,700 *
100	65.0	206.5	60,800 *
105	63.6	204.1	56,500 *
110	62.1	201.4	52,500 *
115	60.6	198.6	49,000 *
120	59.1	195.6	45,800 *
125	57.5	192.5	42,900 *
130	56.0	189.1	40,200 *
135	54.4	185.6	37,400 *
140	52.7	181.8	34,500 *
145	51.1	177.8	31,700 *
150	49.4	173.6	29,200 *
155	47.6	169.0	26,800 *
160	45.8	164.2	24,600 *
165	43.9	159.1	22,500 *
170	42.0	153.6	20,500 *
175	40.0	147.7	18,600 *
180	37.9	141.4	16,800 *
185	35.7	134.6	15,100 *
190	33.4	127.2	13,500 *
195	30.9	119.0	11,900 *
200	28.2	110.0	10,300 *
205	25.2	99.8	8,700 *
210	21.9	88.0	7,200 *
215	17.9	73.7	5,500 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
230 Ft. BOOM			
36	82.8	236.0	139,300 *
38	82.3	235.7	138,800 *
40	81.8	235.4	138,400 *
42	81.3	235.1	138,000 *
44	80.8	234.8	137,500 *
46	80.3	234.4	137,100 *
48	79.8	234.0	135,800 *
50	79.3	233.6	132,500 *
55	78.0	232.6	123,100 *
60	76.7	231.4	114,800 *
65	75.4	230.1	105,500 *
70	74.1	228.7	97,500 *
75	72.8	227.2	90,400 *
80	71.5	225.5	84,100 *
85	70.2	223.7	77,100 *
90	68.9	221.8	70,800 *
95	67.5	219.8	65,300 *
100	66.2	217.6	60,400 *
105	64.8	215.2	56,000 *
110	63.4	212.7	52,100 *
115	62.0	210.1	48,500 *
120	60.6	207.3	45,300 *
125	59.1	204.3	42,400 *
130	57.6	201.2	39,700 *
135	56.1	197.8	37,200 *
140	54.6	194.3	34,400 *
145	53.1	190.6	31,700 *
150	51.5	186.6	29,100 *
155	49.9	182.5	26,800 *
160	48.2	178.0	24,500 *
165	46.5	173.3	22,500 *
170	44.7	168.3	20,500 *
175	42.9	163.0	18,600 *
180	41.0	157.3	16,800 *
185	39.1	151.3	15,200 *
190	37.0	144.8	13,600 *
195	34.9	137.7	12,000 *
200	32.6	130.1	10,500 *
205	30.2	121.7	9,000 *
210	27.5	112.4	7,600 *
215	24.6	101.9	6,200 *
220	21.4	89.8	4,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
240 Ft. BOOM			
38	82.6	245.8	126,300 *
40	82.2	245.5	125,900 *
42	81.7	245.2	125,500 *
44	81.2	244.9	125,100 *
46	80.7	244.6	124,600 *
48	80.2	244.2	124,200 *
50	79.7	243.8	123,700 *
55	78.5	242.8	119,500 *
60	77.3	241.7	111,700 *
65	76.1	240.5	103,400 *
70	74.8	239.1	95,500 *
75	73.6	237.7	88,500 *
80	72.3	236.1	82,400 *
85	71.1	234.4	76,700 *
90	69.8	232.5	70,400 *
95	68.5	230.6	64,900 *
100	67.2	228.5	60,000 *
105	65.9	226.3	55,600 *
110	64.6	223.9	51,700 *
115	63.3	221.4	48,100 *
120	61.9	218.7	44,900 *
125	60.5	215.9	42,000 *
130	59.2	213.0	39,300 *
135	57.7	209.8	36,800 *
140	56.3	206.5	34,500 *
145	54.9	203.0	31,700 *
150	53.4	199.3	29,200 *
155	51.9	195.4	26,800 *
160	50.3	191.3	24,600 *
165	48.7	187.0	22,500 *
170	47.1	182.4	20,500 *
175	45.4	177.5	18,700 *
180	43.7	172.3	16,900 *
185	41.9	166.8	15,200 *
190	40.1	161.0	13,600 *
195	38.2	154.7	12,100 *
200	36.2	148.0	10,700 *
205	34.1	140.8	9,300 *
210	31.9	132.9	7,900 *
215	29.5	124.3	6,600 *
220	26.9	114.8	5,300 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
250 Ft. BOOM			
38	82.9	255.9	114,500 *
40	82.5	255.6	114,100 *
42	82.0	255.3	113,800 *
44	81.5	255.0	113,400 *
46	81.1	254.7	113,000 *
48	80.6	254.4	112,600 *
50	80.1	254.0	112,200 *
55	79.0	253.0	111,100 *
60	77.8	252.0	108,600 *
65	76.6	250.8	102,500 *
70	75.4	249.5	94,700 *
75	74.3	248.1	87,900 *
80	73.1	246.6	81,800 *
85	71.9	244.9	76,400 *
90	70.6	243.2	70,800 *
95	69.4	241.3	65,300 *
100	68.2	239.3	60,300 *
105	66.9	237.2	56,000 *
110	65.7	235.0	52,000 *
115	64.4	232.6	48,500 *
120	63.1	230.1	45,300 *
125	61.8	227.4	42,300 *
130	60.5	224.6	39,600 *
135	59.2	221.6	37,200 *
140	57.8	218.5	34,900 *
145	56.5	215.2	32,800 *
150	55.1	211.7	30,200 *
155	53.6	208.1	27,800 *
160	52.2	204.2	25,600 *
165	50.7	200.2	23,500 *
170	49.2	195.9	21,500 *
175	47.7	191.4	19,700 *
180	46.1	186.6	17,900 *
185	44.5	181.6	16,300 *
190	42.8	176.3	14,700 *
195	41.1	170.6	13,200 *
200	39.3	164.5	11,800 *
205	37.4	158.1	10,400 *
210	35.4	151.2	9,100 *
215	33.4	143.7	7,800 *
220	31.2	135.7	6,500 *
225	28.9	126.8	5,300 *
230	26.4	117.1	4,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. BOOM			
40	82.8	265.7	104,300 *
42	82.3	265.4	103,900 *
44	81.9	265.2	103,600 *
46	81.4	264.8	103,200 *
48	81.0	264.5	102,800 *
50	80.5	264.2	102,400 *
55	79.4	263.2	101,400 *
60	78.3	262.2	100,300 *
65	77.2	261.1	98,000 *
70	76.0	259.8	92,800 *
75	74.9	258.5	86,100 *
80	73.7	257.0	80,100 *
85	72.6	255.5	74,800 *
90	71.4	253.8	69,900 *
95	70.2	252.0	64,800 *
100	69.1	250.1	59,900 *
105	67.9	248.1	55,600 *
110	66.7	245.9	51,600 *
115	65.5	243.7	48,100 *
120	64.2	241.3	44,800 *
125	63.0	238.7	41,900 *
130	61.8	236.1	39,200 *
135	60.5	233.3	36,700 *
140	59.2	230.3	34,500 *
145	57.9	227.2	32,300 *
150	56.6	223.9	30,100 *
155	55.3	220.5	27,700 *
160	53.9	216.8	25,500 *
165	52.5	213.0	23,400 *
170	51.1	209.0	21,400 *
175	49.7	204.8	19,600 *
180	48.2	200.4	17,800 *
185	46.7	195.7	16,200 *
190	45.1	190.8	14,600 *
195	43.5	185.6	13,100 *
200	41.9	180.1	11,700 *
205	40.2	174.2	10,400 *
210	38.5	168.0	9,100 *
215	36.6	161.4	7,800 *
220	34.7	154.3	6,600 *
225	32.7	146.7	5,400 *
230	30.6	138.4	4,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
270 Ft. BOOM			
40	83.0	275.8	95,100 *
42	82.6	275.5	94,800 *
44	82.2	275.3	94,400 *
46	81.7	275.0	94,100 *
48	81.3	274.6	93,700 *
50	80.9	274.3	93,300 *
55	79.8	273.4	92,400 *
60	78.7	272.4	91,400 *
65	77.6	271.3	90,300 *
70	76.5	270.2	88,300 *
75	75.5	268.9	84,200 *
80	74.4	267.5	78,300 *
85	73.2	266.0	73,100 *
90	72.1	264.4	68,300 *
95	71.0	262.7	64,000 *
100	69.9	260.8	59,500 *
105	68.7	258.9	55,100 *
110	67.6	256.8	51,100 *
115	66.4	254.7	47,600 *
120	65.3	252.4	44,400 *
125	64.1	250.0	41,400 *
130	62.9	247.4	38,700 *
135	61.7	244.7	36,200 *
140	60.5	241.9	34,000 *
145	59.2	239.0	31,800 *
150	58.0	235.9	29,900 *
155	56.7	232.6	27,500 *
160	55.4	229.2	25,300 *
165	54.1	225.6	23,200 *
170	52.8	221.8	21,200 *
175	51.5	217.9	19,300 *
180	50.1	213.7	17,600 *
185	48.7	209.3	15,900 *
190	47.2	204.8	14,400 *
195	45.8	199.9	12,900 *
200	44.2	194.8	11,500 *
205	42.7	189.5	10,100 *
210	41.1	183.8	8,800 *
215	39.4	177.8	7,600 *
220	37.7	171.4	6,400 *
225	35.9	164.6	5,300 *
230	34.0	157.3	4,200 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 Ft. BOOM			
42	82.9	285.6	85,800 *
44	82.5	285.4	85,500 *
46	82.0	285.1	85,200 *
48	81.6	284.8	84,800 *
50	81.2	284.5	84,500 *
55	80.2	283.6	83,600 *
60	79.1	282.6	82,700 *
65	78.1	281.6	81,800 *
70	77.0	280.4	80,800 *
75	76.0	279.2	77,500 *
80	74.9	277.9	74,000 *
85	73.9	276.4	70,500 *
90	72.8	274.9	67,000 *
95	71.7	273.2	62,700 *
100	70.6	271.5	58,800 *
105	69.5	269.6	54,700
110	68.4	267.7	50,700
115	67.3	265.6	47,200
120	66.2	263.4	43,900
125	65.1	261.1	41,000
130	63.9	258.6	38,300
135	62.8	256.1	35,800
140	61.6	253.4	33,500
145	60.5	250.6	31,400
150	59.3	247.6	29,400
155	58.1	244.5	27,400 *
160	56.8	241.3	25,100 *
165	55.6	237.9	23,000 *
170	54.4	234.3	21,000 *
175	53.1	230.6	19,200 *
180	51.8	226.7	17,400 *
185	50.5	222.6	15,800 *
190	49.1	218.3	14,200 *
195	47.7	213.8	12,700 *
200	46.3	209.0	11,300 *
205	44.9	204.1	10,000 *
210	43.4	198.8	8,700 *
215	41.9	193.3	7,500 *
220	40.3	187.5	6,300 *
225	38.7	181.3	5,200 *
230	37.0	174.8	4,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
290 Ft. BOOM			
44	82.7	295.5	78,200 *
46	82.3	295.2	77,900 *
48	81.9	294.9	77,600 *
50	81.5	294.6	77,200 *
55	80.5	293.7	76,400 *
60	79.5	292.8	75,500 *
65	78.5	291.8	74,600 *
70	77.5	290.7	73,700 *
75	76.5	289.5	72,700 *
80	75.5	288.2	69,400 *
85	74.4	286.8	66,100 *
90	73.4	285.4	62,900 *
95	72.4	283.8	59,800 *
100	71.3	282.1	56,700 *
105	70.3	280.3	53,700 *
110	69.2	278.4	50,300
115	68.2	276.4	46,800
120	67.1	274.3	43,500
125	66.0	272.1	40,600
130	64.9	269.8	37,900
135	63.8	267.3	35,400
140	62.7	264.8	33,100
145	61.6	262.1	31,000
150	60.4	259.2	29,000
155	59.3	256.3	27,200
160	58.1	253.2	25,000 *
165	57.0	250.0	22,900 *
170	55.8	246.6	20,900 *
175	54.6	243.0	19,000 *
180	53.3	239.3	17,300 *
185	52.1	235.5	15,600 *
190	50.8	231.4	14,000 *
195	49.5	227.2	12,600 *
200	48.2	222.7	11,200 *
205	46.8	218.1	9,800 *
210	45.5	213.2	8,500 *
215	44.0	208.1	7,300 *
220	42.6	202.7	6,200 *
225	41.1	197.0	5,000 *
230	39.6	191.1	4,000 *