



Liftcrane Boom Capacities

Boom No. 82 or 22EL
114,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

999 SERIES 1

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. 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.

Weight of 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.

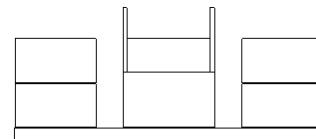
OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. Refer to boom rigging **No. 195459** (No. 82) or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8223-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8225-A**.

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 and 114,600 Lb. counterweight.

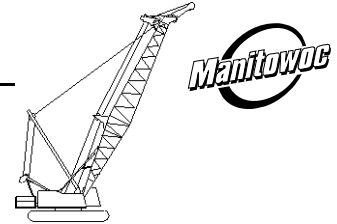


114,600 Lb. Crane Counterweight
4 Side Boxes - 1 Center Box

Maximum Boom Lengths Lifted Unassisted	
Over End of Blocked Crawlers	Over Side of Crawlers
210 Ft.	190 Ft.
Load block, hook and weight ball on ground at start.	

Jib is not to be used with this chart.

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



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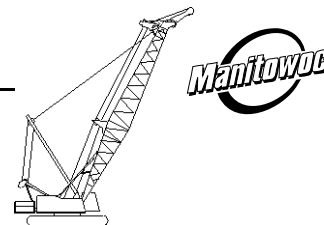
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999 SERIES 1

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	432,200 *b
17	82.0	77.1	408,700 *b
18	81.1	76.9	387,600 *b
19	80.3	76.7	368,400 *b
20	79.5	76.5	342,400 b
22	77.8	76.0	283,000 b
24	76.1	75.5	240,600 b
26	74.4	74.9	208,800
28	72.7	74.2	184,000
30	70.9	73.5	164,200
32	69.2	72.7	148,000
34	67.4	71.8	134,500
36	65.6	70.9	123,100
38	63.7	69.8	113,200
40	61.9	68.7	104,700
42	60.0	67.5	97,300
44	58.0	66.2	90,700
46	56.0	64.8	84,800
48	54.0	63.4	79,600
50	51.9	61.7	74,900
55	46.3	57.1	64,800
60	40.1	51.4	56,800
65	32.9	44.2	50,200
70	23.7	34.1	44,600
80 Ft. BOOM			
17	83.0	87.2	408,000 *b
18	82.3	87.0	386,900 *b
19	81.5	86.9	367,700 *b
20	80.8	86.7	343,300 b
22	79.3	86.3	283,700 b
24	77.9	85.8	241,100 b
26	76.4	85.3	209,200
28	74.9	84.7	184,300
30	73.4	84.1	164,500
32	71.9	83.4	148,200
34	70.4	82.7	134,600
36	68.8	81.9	123,100
38	67.3	81.0	113,300
40	65.7	80.0	104,800
42	64.1	79.0	97,300
44	62.4	78.0	90,700
46	60.8	76.8	84,800
48	59.1	75.6	79,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
50	57.4	74.3	74,800
55	52.9	70.6	64,800
60	48.2	66.2	56,800
65	43.0	61.0	50,200
70	37.3	54.8	44,600
75	30.6	46.9	39,900
80	22.0	36.0	35,800
90 Ft. BOOM			
19	82.5	97.0	367,300 *b
20	81.8	96.8	344,000 b
22	80.5	96.5	284,300 b
24	79.2	96.1	241,600 b
26	77.9	95.6	209,500
28	76.6	95.1	184,600
30	75.3	94.6	164,700
32	74.0	94.0	148,400
34	72.6	93.3	134,800
36	71.3	92.6	123,200
38	69.9	91.8	113,400
40	68.6	91.0	104,800
42	67.2	90.1	97,300
44	65.8	89.2	90,700
46	64.3	88.2	84,800
48	62.9	87.2	79,600
50	61.4	86.0	74,800
55	57.7	82.9	64,800
60	53.8	79.3	56,800
65	49.6	75.2	50,200
70	45.2	70.4	44,700
75	40.4	64.7	40,000
80	35.0	57.9	35,900
85	28.7	49.4	32,400
90	20.7	37.7	29,200
100 Ft. BOOM			
20	82.7	107.0	344,700 b
22	81.5	106.6	284,800 b
24	80.3	106.3	242,000 b
26	79.2	105.9	209,900
28	78.0	105.4	184,900
30	76.8	104.9	164,900
32	75.6	104.4	148,600
34	74.4	103.8	134,900
36	73.2	103.2	123,400
38	72.0	102.5	113,500
40	70.8	101.8	104,900
42	69.6	101.0	97,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
44	68.3	100.2	90,800
46	67.1	99.3	84,900
48	65.8	98.4	79,700
50	64.6	97.4	74,900
55	61.3	94.7	64,900
60	57.9	91.6	56,800
65	54.4	88.1	50,300
70	50.8	84.1	44,800
75	46.9	79.5	40,100
80	42.7	74.3	36,100
85	38.2	68.1	32,600
90	33.1	60.8	29,500
95	27.2	51.7	26,700
100	19.5	39.4	24,200
110 Ft. BOOM			
22	82.3	116.8	285,100
24	81.2	116.4	242,200
26	80.2	116.1	210,000
28	79.1	115.7	185,000
30	78.0	115.2	165,000
32	77.0	114.7	148,600
34	75.9	114.2	134,900
36	74.8	113.6	123,300
38	73.7	113.0	113,400
40	72.6	112.4	104,800
42	71.5	111.7	97,300
44	70.4	110.9	90,700
46	69.3	110.2	84,800
48	68.2	109.3	79,500
50	67.0	108.5	74,700
55	64.1	106.1	64,700
60	61.2	103.4	56,600
65	58.1	100.3	50,000
70	55.0	96.8	44,500
75	51.7	93.0	39,900
80	48.2	88.6	35,800
85	44.5	83.6	32,300
90	40.6	77.9	29,300
95	36.3	71.4	26,600
100	31.5	63.6	24,100
105	25.8	54.0	21,900
110	18.6	40.9	19,900



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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	285,400
24	82.0	126.6	242,400
26	81.0	126.2	210,200
28	80.0	125.9	185,100
30	79.1	125.5	165,000
32	78.1	125.0	148,600
34	77.1	124.5	134,900
36	76.1	124.0	123,300
38	75.1	123.5	113,400
40	74.1	122.9	104,800
42	73.1	122.2	97,200
44	72.1	121.6	90,600
46	71.1	120.9	84,700
48	70.1	120.1	79,400
50	69.1	119.3	74,600
55	66.5	117.2	64,600
60	63.8	114.7	56,500
65	61.1	112.0	49,900
70	58.3	109.0	44,400
75	55.4	105.6	39,700
80	52.4	101.8	35,700
85	49.3	97.5	32,200
90	46.0	92.8	29,200
95	42.5	87.5	26,500
100	38.7	81.4	24,100
105	34.6	74.4	21,900
110	30.0	66.2	19,900
115	24.7	56.1	18,100
120	17.7	42.4	16,400
130 Ft. BOOM			
24	82.6	136.7	242,700
26	81.7	136.4	210,400
28	80.8	136.0	185,200
30	79.9	135.7	165,100
32	79.0	135.3	148,700
34	78.1	134.8	135,000
36	77.2	134.3	123,400
38	76.3	133.8	113,400
40	75.4	133.3	104,800
42	74.5	132.7	97,200
44	73.5	132.1	90,600
46	72.6	131.5	84,700
48	71.7	130.8	79,400
50	70.7	130.1	74,600
55	68.4	128.1	64,500
60	66.0	125.9	56,400
65	63.5	123.4	49,800
70	61.0	120.7	44,300
75	58.4	117.6	39,600
80	55.8	114.3	35,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
85	53.0	110.6	32,200
90	50.2	106.5	29,100
95	47.2	101.9	26,400
100	44.0	96.8	24,000
105	40.7	91.2	21,800
110	37.1	84.8	19,900
115	33.2	77.4	18,100
120	28.8	68.7	16,500
125	23.6	58.1	15,000
130	17.0	43.8	13,500
140 Ft. BOOM			
26	82.3	146.5	210,400
28	81.5	146.2	185,200
30	80.6	145.8	165,100
32	79.8	145.5	148,600
34	79.0	145.1	134,900
36	78.1	144.6	123,300
38	77.3	144.1	113,300
40	76.4	143.6	104,700
42	75.6	143.1	97,100
44	74.7	142.5	90,400
46	73.9	141.9	84,500
48	73.0	141.3	79,200
50	72.2	140.7	74,400
55	70.0	138.9	64,300
60	67.8	136.8	56,200
65	65.5	134.6	49,600
70	63.3	132.1	44,100
75	60.9	129.3	39,400
80	58.5	126.3	35,400
85	56.1	123.0	31,900
90	53.5	119.3	28,900
95	50.9	115.3	26,200
100	48.2	110.9	23,800
105	45.3	106.1	21,600
110	42.3	100.7	19,700
115	39.1	94.7	17,900
120	35.7	87.9	16,300
125	31.9	80.2	14,800
130	27.7	71.2	13,400
135	22.7	60.1	12,100
140	16.3	45.2	10,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	210,500
28	82.0	156.3	185,200
30	81.3	156.0	165,000
32	80.5	155.6	148,500
34	79.7	155.3	134,700
36	78.9	154.8	123,100
38	78.2	154.4	113,100
40	77.4	153.9	104,400
42	76.6	153.5	96,800
44	75.8	152.9	90,200
46	75.0	152.4	84,200
48	74.2	151.8	78,900
50	73.4	151.2	74,100
55	71.4	149.5	64,000
60	69.4	147.6	55,900
65	67.3	145.6	49,300
70	65.2	143.3	43,700
75	63.0	140.8	39,000
80	60.9	138.0	35,000
85	58.6	135.0	31,500
90	56.3	131.7	28,500
95	54.0	128.1	25,800
100	51.6	124.2	23,400
105	49.1	119.9	21,200
110	46.4	115.2	19,300
115	43.7	110.1	17,500
120	40.8	104.4	15,900
125	37.7	98.1	14,400
130	34.4	91.0	13,100
135	30.8	82.9	11,800
140	26.7	73.5	10,600
145	21.9	62.0	9,500
150	15.7	46.5	8,500



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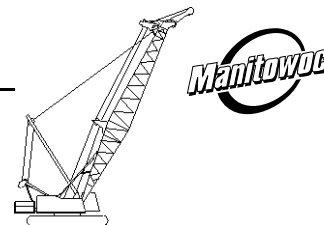
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999 SERIES 1

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.4	185,200
30	81.8	166.1	164,900
32	81.1	165.8	148,400
34	80.4	165.4	134,600
36	79.6	165.1	122,900
38	78.9	164.6	112,900
40	78.2	164.2	104,200
42	77.4	163.7	96,600
44	76.7	163.3	89,900
46	76.0	162.7	84,000
48	75.2	162.2	78,700
50	74.5	161.6	73,900
55	72.6	160.1	63,700
60	70.7	158.3	55,600
65	68.8	156.4	49,000
70	66.8	154.3	43,400
75	64.9	152.0	38,800
80	62.9	149.4	34,700
85	60.8	146.7	31,200
90	58.7	143.6	28,200
95	56.6	140.4	25,500
100	54.4	136.8	23,100
105	52.1	133.0	20,900
110	49.8	128.8	19,000
115	47.4	124.3	17,200
120	44.9	119.3	15,600
125	42.2	113.9	14,100
130	39.4	108.0	12,800
135	36.5	101.4	11,500
140	33.3	94.0	10,400
145	29.8	85.6	9,300
150	25.8	75.7	8,300
155	21.2	63.8	7,300
160	15.2	47.8	6,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.5	185,100
30	82.3	176.2	164,900
32	81.6	175.9	148,300
34	80.9	175.6	134,500
36	80.3	175.2	122,800
38	79.6	174.9	112,800
40	78.9	174.4	104,100
42	78.2	174.0	96,500
44	77.5	173.6	89,800
46	76.8	173.1	83,800
48	76.1	172.6	78,500
50	75.4	172.0	73,700
55	73.7	170.6	63,500
60	71.9	168.9	55,400
65	70.1	167.1	48,800
70	68.3	165.2	43,200
75	66.4	163.0	38,500
80	64.6	160.6	34,500
85	62.7	158.1	31,000
90	60.8	155.3	27,900
95	58.8	152.3	25,200
100	56.8	149.1	22,800
105	54.7	145.6	20,700
110	52.6	141.8	18,700
115	50.4	137.7	17,000
120	48.2	133.3	15,400
125	45.9	128.5	13,900
130	43.4	123.3	12,600
135	40.9	117.6	11,300
140	38.2	111.4	10,200
145	35.3	104.5	9,100
150	32.2	96.8	8,100
155	28.8	88.1	7,100
160	25.0	77.9	6,200
165	20.5	65.6	5,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	164,800
32	82.1	186.0	148,100
34	81.4	185.7	134,300
36	80.8	185.4	122,600
38	80.2	185.0	112,600
40	79.5	184.6	103,900
42	78.9	184.2	96,200
44	78.2	183.8	89,500
46	77.6	183.4	83,500
48	76.9	182.9	78,200
50	76.2	182.4	73,400
55	74.6	181.0	63,200
60	72.9	179.5	55,100
65	71.2	177.8	48,400
70	69.5	175.9	42,900
75	67.8	173.9	38,200
80	66.1	171.7	34,200
85	64.3	169.3	30,700
90	62.5	166.8	27,600
95	60.7	164.0	24,900
100	58.9	161.0	22,500
105	57.0	157.8	20,300
110	55.0	154.3	18,400
115	53.0	150.6	16,600
120	51.0	146.6	15,000
125	48.9	142.3	13,600
130	46.7	137.6	12,200
135	44.5	132.6	11,000
140	42.1	127.1	9,800
145	39.7	121.2	8,800
150	37.1	114.7	7,800
155	34.3	107.6	6,800
160	31.3	99.6	6,000
165	28.0	90.6	5,100
170	24.3	80.0	4,300



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	148,100
34	81.9	195.9	134,200
36	81.3	195.5	122,400
38	80.7	195.2	112,400
40	80.1	194.8	103,700
42	79.4	194.4	96,000
44	78.8	194.0	89,300
46	78.2	193.6	83,300
48	77.6	193.2	77,900
50	77.0	192.7	73,100
55	75.4	191.4	62,900
60	73.9	189.9	54,800
65	72.3	188.4	48,100
70	70.7	186.6	42,500
75	69.1	184.7	37,800
80	67.4	182.7	33,800
85	65.8	180.4	30,300
90	64.1	178.0	27,200
95	62.4	175.4	24,500
100	60.7	172.6	22,100
105	58.9	169.6	19,900
110	57.1	166.4	18,000
115	55.3	163.0	16,200
120	53.4	159.3	14,600
125	51.5	155.4	13,100
130	49.5	151.2	11,800
135	47.5	146.7	10,500
140	45.4	141.8	9,400
145	43.2	136.5	8,300
150	40.9	130.9	7,300
155	38.5	124.7	6,400
160	36.0	118.0	5,500
165	33.3	110.6	4,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. BOOM			
32	82.9	206.3	147,900
34	82.3	206.0	134,000
36	81.7	205.7	122,200
38	81.1	205.3	112,100
40	80.6	205.0	103,400
42	80.0	204.6	95,700
44	79.4	204.2	89,000
46	78.8	203.8	83,000
48	78.2	203.4	77,600
50	77.6	203.0	72,800
55	76.2	201.7	62,600
60	74.7	200.4	54,400
65	73.2	198.9	47,700
70	71.7	197.2	42,200
75	70.2	195.4	37,400
80	68.6	193.5	33,400
85	67.1	191.4	29,900
90	65.5	189.1	26,800
95	63.9	186.7	24,100
100	62.3	184.1	21,700
105	60.6	181.3	19,500
110	59.0	178.3	17,600
115	57.3	175.1	15,800
120	55.5	171.7	14,200
125	53.8	168.1	12,700
130	52.0	164.2	11,400
135	50.1	160.1	10,100
140	48.2	155.6	9,000
145	46.2	150.9	7,900
150	44.2	145.8	6,900
155	42.1	140.4	6,000
160	39.8	134.5	5,100
165	37.5	128.1	4,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
210 Ft. BOOM			
34	82.7	216.1	133,800
36	82.1	215.8	122,000
38	81.6	215.5	111,900
40	81.0	215.1	103,200
42	80.5	214.8	95,500
44	79.9	214.4	88,700
46	79.4	214.0	82,700
48	78.8	213.6	77,400
50	78.2	213.2	72,500
55	76.8	212.0	62,300
60	75.4	210.8	54,100
65	74.0	209.3	47,400
70	72.6	207.8	41,800
75	71.1	206.1	37,100
80	69.7	204.2	33,100
85	68.2	202.2	29,600
90	66.7	200.1	26,500
95	65.2	197.8	23,800
100	63.7	195.4	21,400
105	62.2	192.7	19,200
110	60.6	189.9	17,200
115	59.0	187.0	15,500
120	57.4	183.8	13,900
125	55.8	180.4	12,400
130	54.1	176.8	11,100
135	52.4	173.0	9,800
140	50.6	168.9	8,700
145	48.8	164.6	7,600
150	46.9	160.0	6,600
155	45.0	155.1	5,700
160	43.0	149.8	4,800
165	41.0	144.1	4,000