

# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**149,600 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.

250 Ft. boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

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. 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.

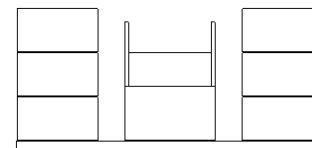
**MACHINE TRAVEL:** Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8225-A.**

**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.

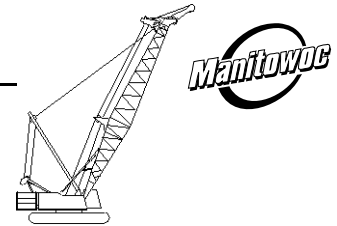
**MACHINE EQUIPMENT:** Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps or four 1-3/8 in. boom pendants and 149,600 Lb. counterweight.

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.



149,600 Lb. Crane Counterweight  
6 Side Boxes - 1 Center Box

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



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## 999 SERIES 1

WITHOUT BOOM CATWALKS			
Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 250 Ft.	—	220 Ft.	—
240 Ft.	—	210 Ft.	—
230 Ft.	—	200 Ft.	40 Ft.
220 Ft.	60 Ft.	190 Ft.	70 Ft.
210 Ft.	80 Ft.	180 Ft.	80 Ft.

Load block, hook and weight ball on ground at start.  
(a) Upper boom point cannot be used on 250 Ft. boom.

Consult jib chart for jib capacities.

Upper boom point cannot be used when jib is attached.

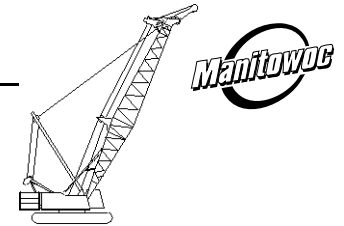
WITH BOOM CATWALKS			
Maximum Boom and Jib Lengths Lifted Unassisted			
Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 250 Ft.	—	220 Ft.	—
(b) 240 Ft.	—	210 Ft.	—
230 Ft.	—	200 Ft.	40 Ft.
220 Ft.	50 Ft.	190 Ft.	70 Ft.
210 Ft.	80 Ft.	180 Ft.	80 Ft.

Load block, hook and weight ball on ground at start.  
(a) Upper boom point cannot be used on 250 Ft. boom.  
(b) Machine must be equipped with lowerworks jacking cylinders.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>70 Ft. BOOM</b>			
16	82.8	77.2	451,100 *b
17	82.0	77.1	426,600 *b
18	81.1	76.9	404,600 *b
19	80.3	76.7	384,700 *b
20	79.5	76.5	366,500 *b
22	77.8	76.0	334,800 *b
24	76.1	75.5	287,500 b
26	74.4	74.9	249,800
28	72.7	74.2	220,500
30	70.9	73.5	197,000
32	69.2	72.7	177,800
34	67.4	71.8	161,800
36	65.6	70.9	148,300
38	63.7	69.8	136,700
40	61.9	68.7	126,600
42	60.0	67.5	117,800
44	58.0	66.2	110,000
46	56.0	64.8	103,000
48	54.0	63.4	96,800
50	51.9	61.7	91,200
55	46.3	57.1	79,400
60	40.1	51.4	69,900
65	32.9	44.2	62,100
70	23.7	34.1	55,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>80 Ft. BOOM</b>			
17	83.0	87.2	425,900 *b
18	82.3	87.0	403,900 *b
19	81.5	86.9	384,000 *b
20	80.8	86.7	365,900 *b
22	79.3	86.3	334,200 *b
24	77.9	85.8	288,000 b
26	76.4	85.3	250,200
28	74.9	84.7	220,800
30	73.4	84.1	197,200
32	71.9	83.4	178,000
34	70.4	82.7	161,900
36	68.8	81.9	148,400
38	67.3	81.0	136,700
40	65.7	80.0	126,600
42	64.1	79.0	117,800
44	62.4	78.0	110,000
46	60.8	76.8	103,000
48	59.1	75.6	96,800
50	57.4	74.3	91,200
55	52.9	70.6	79,400
60	48.2	66.2	69,900
65	43.0	61.0	62,100
70	37.3	54.8	55,600
75	30.6	46.9	50,000
80	22.0	36.0	45,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>90 Ft. BOOM</b>			
19	82.5	97.0	383,500 *b
20	81.8	96.8	365,400 *b
22	80.5	96.5	333,700 *b
24	79.2	96.1	288,400 b
26	77.9	95.6	250,500
28	76.6	95.1	221,100
30	75.3	94.6	197,500
32	74.0	94.0	178,200
34	72.6	93.3	162,100
36	71.3	92.6	148,500
38	69.9	91.8	136,800
40	68.6	91.0	126,700
42	67.2	90.1	117,800
44	65.8	89.2	110,000
46	64.3	88.2	103,000
48	62.9	87.2	96,800
50	61.4	86.0	91,200
55	57.7	82.9	79,400
60	53.8	79.3	69,900
65	49.6	75.2	62,100
70	45.2	70.4	55,600
75	40.4	64.7	50,100
80	35.0	57.9	45,300
85	28.7	49.4	41,100
90	20.7	37.7	37,400



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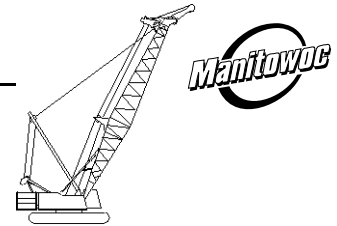
Meets  
**ANSI B30.5**  
Requirements

## 999 SERIES 1

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>100 Ft. BOOM</b>			
20	82.7	107.0	365,200 *b
22	81.5	106.6	333,500 *b
24	80.3	106.3	288,800 b
26	79.2	105.9	250,900
28	78.0	105.4	221,300
30	76.8	104.9	197,700
32	75.6	104.4	178,400
34	74.4	103.8	162,300
36	73.2	103.2	148,600
38	72.0	102.5	136,900
40	70.8	101.8	126,800
42	69.6	101.0	117,900
44	68.3	100.2	110,100
46	67.1	99.3	103,100
48	65.8	98.4	96,900
50	64.6	97.4	91,300
55	61.3	94.7	79,500
60	57.9	91.6	70,000
65	54.4	88.1	62,200
70	50.8	84.1	55,700
75	46.9	79.5	50,200
80	42.7	74.3	45,400
85	38.2	68.1	41,300
90	33.1	60.8	37,700
95	27.2	51.7	34,400
100	19.5	39.4	31,500
<b>110 Ft. BOOM</b>			
22	82.3	116.8	332,900 *
24	81.2	116.4	289,100
26	80.2	116.1	251,000
28	79.1	115.7	221,400
30	78.0	115.2	197,800
32	77.0	114.7	178,400
34	75.9	114.2	162,200
36	74.8	113.6	148,600
38	73.7	113.0	136,900
40	72.6	112.4	126,700
42	71.5	111.7	117,800
44	70.4	110.9	110,000
46	69.3	110.2	103,000
48	68.2	109.3	96,700
50	67.0	108.5	91,100
55	64.1	106.1	79,300
60	61.2	103.4	69,700
65	58.1	100.3	62,000
70	55.0	96.8	55,500
75	51.7	93.0	49,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>110 Ft. BOOM</b>			
80	48.2	88.6	45,200
85	44.5	83.6	41,100
90	40.6	77.9	37,500
95	36.3	71.4	34,300
100	31.5	63.6	31,400
105	25.8	54.0	28,800
110	18.6	40.9	26,400
<b>120 Ft. BOOM</b>			
22	82.9	126.9	324,500 *
24	82.0	126.6	289,300
26	81.0	126.2	251,200
28	80.0	125.9	221,500
30	79.1	125.5	197,800
32	78.1	125.0	178,400
34	77.1	124.5	162,200
36	76.1	124.0	148,500
38	75.1	123.5	136,800
40	74.1	122.9	126,600
42	73.1	122.2	117,700
44	72.1	121.6	109,900
46	71.1	120.9	102,900
48	70.1	120.1	96,700
50	69.1	119.3	91,000
55	66.5	117.2	79,100
60	63.8	114.7	69,600
65	61.1	112.0	61,800
70	58.3	109.0	55,300
75	55.4	105.6	49,800
80	52.4	101.8	45,100
85	49.3	97.5	41,000
90	46.0	92.8	37,400
95	42.5	87.5	34,200
100	38.7	81.4	31,300
105	34.6	74.4	28,800
110	30.0	66.2	26,500
115	24.7	56.1	24,300
120	17.7	42.4	22,400
<b>130 Ft. BOOM</b>			
24	82.6	136.7	289,500
26	81.7	136.4	251,300
28	80.8	136.0	221,700
30	79.9	135.7	197,900
32	79.0	135.3	178,500
34	78.1	134.8	162,300
36	77.2	134.3	148,600
38	76.3	133.8	136,800
40	75.4	133.3	126,600
42	74.5	132.7	117,700
44	73.5	132.1	109,900
46	72.6	131.5	102,900
48	71.7	130.8	96,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>130 Ft. BOOM</b>			
50	70.7	130.1	91,000
55	68.4	128.1	79,100
60	66.0	125.9	69,600
65	63.5	123.4	61,800
70	61.0	120.7	55,300
75	58.4	117.6	49,700
80	55.8	114.3	45,000
85	53.0	110.6	40,900
90	50.2	106.5	37,300
95	47.2	101.9	34,100
100	44.0	96.8	31,300
105	40.7	91.2	28,700
110	37.1	84.8	26,400
115	33.2	77.4	24,300
120	28.8	68.7	22,400
125	23.6	58.1	20,700
130	17.0	43.8	19,000
<b>140 Ft. BOOM</b>			
26	82.3	146.5	251,400
28	81.5	146.2	221,700
30	80.6	145.8	197,900
32	79.8	145.5	178,400
34	79.0	145.1	162,200
36	78.1	144.6	148,500
38	77.3	144.1	136,700
40	76.4	143.6	126,500
42	75.6	143.1	117,600
44	74.7	142.5	109,700
46	73.9	141.9	102,700
48	73.0	141.3	96,400
50	72.2	140.7	90,800
55	70.0	138.9	78,900
60	67.8	136.8	69,400
65	65.5	134.6	61,500
70	63.3	132.1	55,000
75	60.9	129.3	49,500
80	58.5	126.3	44,800
85	56.1	123.0	40,700
90	53.5	119.3	37,100
95	50.9	115.3	33,900
100	48.2	110.9	31,100
105	45.3	106.1	28,500
110	42.3	100.7	26,200
115	39.1	94.7	24,200
120	35.7	87.9	22,300
125	31.9	80.2	20,500
130	27.7	71.2	18,900
135	22.7	60.1	17,400
140	16.3	45.2	16,000



# Liftcrane Boom Capacities

Meets  
**ANSI B30.5**  
Requirements

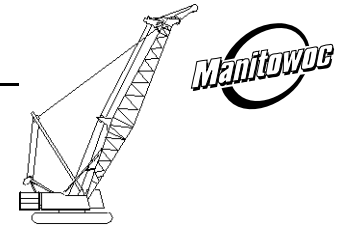
**Boom No. 82 or 22EL**  
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**360 Degree Rating**

## 999 SERIES 1

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>150 Ft. BOOM</b>			
26	82.8	156.6	251,500
28	82.0	156.3	221,700
30	81.3	156.0	197,800
32	80.5	155.6	178,300
34	79.7	155.3	162,100
36	78.9	154.8	148,300
38	78.2	154.4	136,500
40	77.4	153.9	126,300
42	76.6	153.5	117,300
44	75.8	152.9	109,500
46	75.0	152.4	102,400
48	74.2	151.8	96,200
50	73.4	151.2	90,500
55	71.4	149.5	78,600
60	69.4	147.6	69,000
65	67.3	145.6	61,200
70	65.2	143.3	54,700
75	63.0	140.8	49,100
80	60.9	138.0	44,400
85	58.6	135.0	40,300
90	56.3	131.7	36,700
95	54.0	128.1	33,500
100	51.6	124.2	30,700
105	49.1	119.9	28,100
110	46.4	115.2	25,800
115	43.7	110.1	23,800
120	40.8	104.4	21,900
125	37.7	98.1	20,100
130	34.4	91.0	18,500
135	30.8	82.9	17,000
140	26.7	73.5	15,700
145	21.9	62.0	14,400
150	15.7	46.5	13,100
<b>160 Ft. BOOM</b>			
28	82.5	166.4	221,600
30	81.8	166.1	197,700
32	81.1	165.8	178,200
34	80.4	165.4	161,900
36	79.6	165.1	148,100
38	78.9	164.6	136,300
40	78.2	164.2	126,100
42	77.4	163.7	117,100
44	76.7	163.3	109,200
46	76.0	162.7	102,200
48	75.2	162.2	95,900
50	74.5	161.6	90,300
55	72.6	160.1	78,300
60	70.7	158.3	68,700
65	68.8	156.4	60,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>160 Ft. BOOM</b>			
70	66.8	154.3	54,400
75	64.9	152.0	48,800
80	62.9	149.4	44,100
85	60.8	146.7	40,000
90	58.7	143.6	36,400
95	56.6	140.4	33,200
100	54.4	136.8	30,400
105	52.1	133.0	27,800
110	49.8	128.8	25,500
115	47.4	124.3	23,500
120	44.9	119.3	21,600
125	42.2	113.9	19,800
130	39.4	108.0	18,300
135	36.5	101.4	16,800
140	33.3	94.0	15,400
145	29.8	85.6	14,100
150	25.8	75.7	13,000
155	21.2	63.8	11,800
160	15.2	47.8	10,800
<b>170 Ft. BOOM</b>			
28	83.0	176.5	221,600
30	82.3	176.2	197,700
32	81.6	175.9	178,100
34	80.9	175.6	161,800
36	80.3	175.2	148,000
38	79.6	174.9	136,200
40	78.9	174.4	125,900
42	78.2	174.0	117,000
44	77.5	173.6	109,100
46	76.8	173.1	102,000
48	76.1	172.6	95,700
50	75.4	172.0	90,100
55	73.7	170.6	78,100
60	71.9	168.9	68,500
65	70.1	167.1	60,700
70	68.3	165.2	54,100
75	66.4	163.0	48,600
80	64.6	160.6	43,900
85	62.7	158.1	39,700
90	60.8	155.3	36,100
95	58.8	152.3	33,000
100	56.8	149.1	30,100
105	54.7	145.6	27,600
110	52.6	141.8	25,300
115	50.4	137.7	23,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>170 Ft. BOOM</b>			
120	48.2	133.3	21,300
125	45.9	128.5	19,600
130	43.4	123.3	18,000
135	40.9	117.6	16,600
140	38.2	111.4	15,200
145	35.3	104.5	13,900
150	32.2	96.8	12,800
155	28.8	88.1	11,700
160	25.0	77.9	10,600
165	20.5	65.6	9,600
<b>180 Ft. BOOM</b>			
30	82.7	186.3	197,500
32	82.1	186.0	178,000
34	81.4	185.7	161,600
36	80.8	185.4	147,800
38	80.2	185.0	136,000
40	79.5	184.6	125,700
42	78.9	184.2	116,700
44	78.2	183.8	108,800
46	77.6	183.4	101,800
48	76.9	182.9	95,500
50	76.2	182.4	89,800
55	74.6	181.0	77,800
60	72.9	179.5	68,200
65	71.2	177.8	60,400
70	69.5	175.9	53,800
75	67.8	173.9	48,300
80	66.1	171.7	43,500
85	64.3	169.3	39,400
90	62.5	166.8	35,800
95	60.7	164.0	32,600
100	58.9	161.0	29,800
105	57.0	157.8	27,200
110	55.0	154.3	25,000
115	53.0	150.6	22,900
120	51.0	146.6	21,000
125	48.9	142.3	19,300
130	46.7	137.6	17,700
135	44.5	132.6	16,200
140	42.1	127.1	14,900
145	39.7	121.2	13,600
150	37.1	114.7	12,400
155	34.3	107.6	11,400
160	31.3	99.6	10,300
165	28.0	90.6	9,400
170	24.3	80.0	8,400
175	19.9	67.3	7,600



# Liftcrane Boom Capacities

Meets  
**ANSI B30.5**  
Requirements

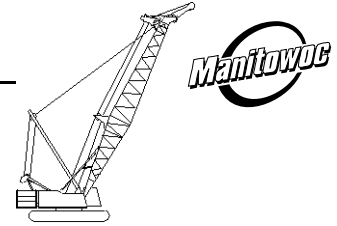
**Boom No. 82 or 22EL**  
**149,600 Lb. Counterweight**  
**360 Degree Rating**

## 999 SERIES 1

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>190 Ft. BOOM</b>			
32	82.5	196.2	177,900
34	81.9	195.9	161,500
36	81.3	195.5	147,700
38	80.7	195.2	135,800
40	80.1	194.8	125,500
42	79.4	194.4	116,500
44	78.8	194.0	108,600
46	78.2	193.6	101,500
48	77.6	193.2	95,200
50	77.0	192.7	89,500
55	75.4	191.4	77,500
60	73.9	189.9	67,900
65	72.3	188.4	60,000
70	70.7	186.6	53,400
75	69.1	184.7	47,900
80	67.4	182.7	43,100
85	65.8	180.4	39,000
90	64.1	178.0	35,400
95	62.4	175.4	32,200
100	60.7	172.6	29,300
105	58.9	169.6	26,800
110	57.1	166.4	24,500
115	55.3	163.0	22,400
120	53.4	159.3	20,500
125	51.5	155.4	18,800
130	49.5	151.2	17,200
135	47.5	146.7	15,800
140	45.4	141.8	14,400
145	43.2	136.5	13,200
150	40.9	130.9	12,000
155	38.5	124.7	10,900
160	36.0	118.0	9,900
165	33.3	110.6	8,900
170	30.4	102.3	8,000
175	27.2	93.0	7,200
180	23.6	82.1	6,300
185	19.4	68.9	5,600
<b>200 Ft. BOOM</b>			
32	82.9	206.3	177,000 *
34	82.3	206.0	161,300
36	81.7	205.7	147,400
38	81.1	205.3	135,600
40	80.6	205.0	125,300
42	80.0	204.6	116,200
44	79.4	204.2	108,300
46	78.8	203.8	101,200
48	78.2	203.4	94,900
50	77.6	203.0	89,200
55	76.2	201.7	77,200
60	74.7	200.4	67,500
65	73.2	198.9	59,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>200 Ft. BOOM</b>			
70	71.7	197.2	53,100
75	70.2	195.4	47,500
80	68.6	193.5	42,800
85	67.1	191.4	38,600
90	65.5	189.1	35,000
95	63.9	186.7	31,800
100	62.3	184.1	29,000
105	60.6	181.3	26,400
110	59.0	178.3	24,100
115	57.3	175.1	22,100
120	55.5	171.7	20,200
125	53.8	168.1	18,400
130	52.0	164.2	16,900
135	50.1	160.1	15,400
140	48.2	155.6	14,000
145	46.2	150.9	12,800
150	44.2	145.8	11,600
155	42.1	140.4	10,500
160	39.8	134.5	9,500
165	37.5	128.1	8,600
170	35.1	121.1	7,700
175	32.4	113.4	6,800
180	29.6	104.9	6,000
185	26.5	95.3	5,200
190	23.0	84.1	4,500
<b>210 Ft. BOOM</b>			
34	82.7	216.1	161,100
36	82.1	215.8	147,200
38	81.6	215.5	135,300
40	81.0	215.1	125,000
42	80.5	214.8	116,000
44	79.9	214.4	108,000
46	79.4	214.0	101,000
48	78.8	213.6	94,600
50	78.2	213.2	88,900
55	76.8	212.0	76,900
60	75.4	210.8	67,200
65	74.0	209.3	59,400
70	72.6	207.8	52,800
75	71.1	206.1	47,200
80	69.7	204.2	42,400
85	68.2	202.2	38,300
90	66.7	200.1	34,700
95	65.2	197.8	31,500
100	63.7	195.4	28,600
105	62.2	192.7	26,100
110	60.6	189.9	23,800
115	59.0	187.0	21,700
120	57.4	183.8	19,800
125	55.8	180.4	18,100
130	54.1	176.8	16,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>210 Ft. BOOM</b>			
135	52.4	173.0	15,100
140	50.6	168.9	13,700
145	48.8	164.6	12,500
150	46.9	160.0	11,300
155	45.0	155.1	10,200
160	43.0	149.8	9,200
165	41.0	144.1	8,200
170	38.8	138.0	7,300
175	36.6	131.4	6,500
180	34.2	124.2	5,700
185	31.6	116.3	4,900
190	28.9	107.5	4,200
<b>220 Ft. BOOM</b>			
34	83.0	226.2	155,100 *
36	82.5	225.9	147,000
38	82.0	225.6	135,100
40	81.4	225.3	124,800
42	80.9	224.9	115,700
44	80.4	224.6	107,700
46	79.8	224.2	100,700
48	79.3	223.8	94,300
50	78.8	223.4	88,600
55	77.5	222.3	76,500
60	76.1	221.1	66,900
65	74.8	219.7	59,000
70	73.4	218.3	52,400
75	72.0	216.6	46,800
80	70.7	214.9	42,100
85	69.3	213.0	37,900
90	67.9	211.0	34,300
95	66.4	208.8	31,100
100	65.0	206.5	28,200
105	63.6	204.0	25,700
110	62.1	201.4	23,400
115	60.6	198.6	21,300
120	59.1	195.6	19,400
125	57.5	192.5	17,700
130	56.0	189.1	16,100
135	54.4	185.6	14,700
140	52.7	181.8	13,300
145	51.1	177.8	12,100
150	49.4	173.5	10,900
155	47.6	169.0	9,800
160	45.8	164.2	8,800
165	43.9	159.1	7,800
170	42.0	153.6	6,900
175	40.0	147.7	6,100
180	37.9	141.4	5,300
185	35.7	134.6	4,600



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**149,600 Lb. Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**

## 999 SERIES 1

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>230 Ft. BOOM</b>			
36	82.8	236.0	139,300 *
38	82.3	235.7	134,800
40	81.8	235.4	124,500
42	81.3	235.1	115,400
44	80.8	234.7	107,400
46	80.3	234.4	100,300
48	79.8	234.0	94,000
50	79.3	233.6	88,300
55	78.0	232.6	76,200
60	76.7	231.4	66,500
65	75.4	230.1	58,600
70	74.1	228.7	52,000
75	72.8	227.2	46,400
80	71.5	225.5	41,600
85	70.2	223.7	37,500
90	68.9	221.8	33,800
95	67.5	219.7	30,600
100	66.2	217.5	27,800
105	64.8	215.2	25,200
110	63.4	212.7	22,900
115	62.0	210.1	20,800
120	60.6	207.3	18,900
125	59.1	204.3	17,200
130	57.6	201.1	15,600
135	56.1	197.8	14,200
140	54.6	194.3	12,800
145	53.1	190.6	11,600
150	51.5	186.6	10,400
155	49.9	182.4	9,300
160	48.2	178.0	8,300
165	46.5	173.3	7,300
170	44.7	168.3	6,400
175	42.9	163.0	5,600
180	41.0	157.3	4,800
185	39.1	151.3	4,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>240 Ft. BOOM</b>			
38	82.6	245.8	126,300 *
40	82.2	245.5	124,200
42	81.7	245.2	115,100
44	81.2	244.9	107,100
46	80.7	244.6	100,000
48	80.2	244.2	93,600
50	79.7	243.8	87,900
55	78.5	242.8	75,800
60	77.3	241.7	66,100
65	76.1	240.5	58,200
70	74.8	239.1	51,600
75	73.6	237.6	46,000
80	72.3	236.1	41,200
85	71.1	234.4	37,100
90	69.8	232.5	33,400
95	68.5	230.6	30,200
100	67.2	228.5	27,400
105	65.9	226.3	24,800
110	64.6	223.9	22,500
115	63.3	221.4	20,400
120	61.9	218.7	18,500
125	60.5	215.9	16,800
130	59.2	213.0	15,200
135	57.7	209.8	13,700
140	56.3	206.5	12,400
145	54.9	203.0	11,100
150	53.4	199.3	10,000
155	51.9	195.4	8,900
160	50.3	191.3	7,900
165	48.7	187.0	6,900
170	47.1	182.4	6,000
175	45.4	177.5	5,200
180	43.7	172.3	4,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>250 Ft. BOOM</b>			
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	107,500
46	81.1	254.7	100,400
48	80.6	254.4	94,000
50	80.1	254.0	88,300
55	79.0	253.0	76,200
60	77.8	252.0	66,500
65	76.6	250.8	58,600
70	75.4	249.5	52,000
75	74.3	248.1	46,400
80	73.1	246.6	41,600
85	71.9	244.9	37,400
90	70.6	243.2	33,800
95	69.4	241.3	30,600
100	68.2	239.3	27,700
105	66.9	237.2	25,100
110	65.7	235.0	22,800
115	64.4	232.6	20,800
120	63.1	230.1	18,900
125	61.8	227.4	17,100
130	60.5	224.6	15,500
135	59.2	221.6	14,100
140	57.8	218.5	12,700
145	56.5	215.2	11,500
150	55.1	211.7	10,300
155	53.6	208.1	9,200
160	52.2	204.2	8,200
165	50.7	200.2	7,300
170	49.2	195.9	6,400
175	47.7	191.4	5,500
180	46.1	186.6	4,700
185	44.5	181.6	4,000