

# Liftcrane Boom Capacities

**Boom No. 22E With Open Throat Top**  
**219,600 Lb. Crane Counterweight**  
**80,000 Lb. Carbody Counterweight**  
**360 Degree Rating**

**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. Capacities based on structural competence are denoted by an asterisk (\*).

Upper boom point capacity for liftcrane service with single part whip line or combination of two single part lines is 29,500 Lbs. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

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. 196151** and Wire Rope Specification chart **No. 8391-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. 8392-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.

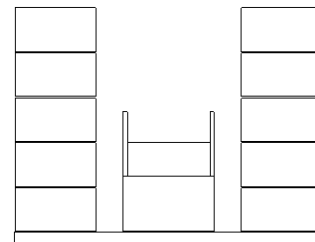
**BOOM POINT ELEVATION:** Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

**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, 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.

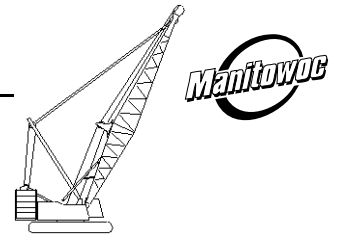
**Auxiliary Drum Deduct**  
Deduct 4,000 Lbs. from boom capacities when boom butt is equipped with auxiliary drum.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 123
30 Ft.	2,500 Lbs.
40 Ft.	3,100 Lbs.
50 Ft.	3,700 Lbs.
60 Ft.	4,400 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.



# Liftcrane Boom Capacities

Boom No. 22E With Open Throat Top  
 219,600 Lb. Crane Counterweight  
 80,000 Lb. Carbody Counterweight  
 360 Degree Rating

Meets  
**ANSI B30.5**  
 Requirements

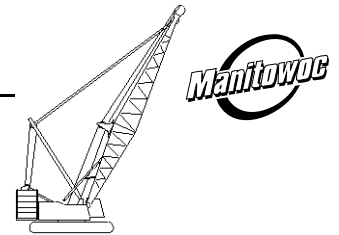
## 999 SERIES 3

<b>Maximum Boom And Jib Lengths Lifted Unassisted Without Auxiliary Drum In Boom Butt</b>			
Over End Of Blocked Crawlers		Over Side Of Crawlers	
Boom Length	Jib No. 123	Boom Length	Jib No. 123
290 Ft.	—	(a) 290 Ft.	—
280 Ft.	—	280 Ft.	—
270 Ft.	30 Ft.	270 Ft.	30 Ft.
260 Ft.	60 Ft.	260 Ft.	60 Ft.

Load block, hook and weight ball on ground at start.  
 (a) Upper boom point cannot be used on 290 Ft. boom over side of crawlers.

<b>Maximum Boom and Jib Lengths Lifted Unassisted With Auxiliary Drum In Boom Butt</b>			
Over End Of Blocked Crawlers		Over Side Of Crawlers	
Boom Length	Jib No. 123	Boom Length	Jib No. 123
(a) 290 Ft.	—	(a) 290 Ft.	—
280 Ft.	—	280 Ft.	—
270 Ft.	—	270 Ft.	—
260 Ft.	50 Ft.	260 Ft.	50 Ft.
250 Ft.	60 Ft.	250 Ft.	60 Ft.

Load block, hook and weight ball on ground at start.  
 (a) Upper boom point cannot be used on 290 Ft. boom.



# Liftcrane Boom Capacities

Meets  
ANSI B30.5  
Requirements

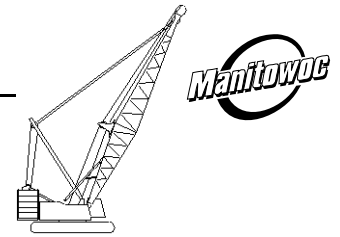
Boom No. 22E With Open Throat Top  
219,600 Lb. Crane Counterweight  
80,000 Lb. Carbody Counterweight  
360 Degree Rating

## 999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>70 Ft. BOOM</b>			
15	81.8	77.4	460,000 *
16	81.0	77.2	460,000 *
17	80.1	77.0	460,000 *
18	79.3	76.9	441,200 *
19	78.5	76.7	419,600 *
20	77.6	76.4	400,000 *
22	75.9	76.0	365,700 *
24	74.3	75.4	336,700 *
26	72.5	74.8	311,800 *
28	70.8	74.2	290,200 *
30	69.1	73.5	271,400 *
32	67.3	72.7	254,700 *
34	65.5	71.8	239,900 *
36	63.7	70.8	221,900 *
38	61.9	69.8	205,200 *
40	60.0	68.7	190,800 *
42	58.1	67.5	178,100 *
44	56.1	66.2	166,900 *
46	54.1	64.8	157,000 *
48	52.1	63.3	148,100 *
50	50.0	61.7	140,100 *
55	44.4	57.1	123,100 *
60	38.2	51.4	109,600 *
65	31.0	44.1	96,700 *
70	21.8	34.0	75,800 *
<b>80 Ft. BOOM</b>			
17	81.4	87.2	427,900 *
18	80.6	87.0	421,300 *
19	79.9	86.8	414,900 *
20	79.2	86.7	399,500 *
22	77.7	86.2	365,200 *
24	76.3	85.8	336,200 *
26	74.8	85.3	311,300 *
28	73.3	84.7	289,800 *
30	71.8	84.1	270,900 *
32	70.3	83.4	254,300 *
34	68.7	82.6	239,400 *
36	67.2	81.8	221,900 *
38	65.6	80.9	205,200 *
40	64.1	80.0	190,700 *
42	62.5	79.0	178,000 *
44	60.8	77.9	166,900 *
46	59.2	76.8	156,900 *
48	57.5	75.5	148,000 *
50	55.8	74.2	140,000 *
55	51.3	70.5	123,000 *
60	46.6	66.2	109,500 *
65	41.4	61.0	98,300 *
70	35.7	54.7	89,000 *
75	29.0	46.8	80,100 *
80	20.4	35.9	65,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>90 Ft. BOOM</b>			
18	81.7	97.1	378,000 *
19	81.1	97.0	372,400 *
20	80.4	96.8	366,900 *
22	79.1	96.4	356,400 *
24	77.8	96.0	335,600 *
26	76.5	95.6	310,800 *
28	75.2	95.1	289,200 *
30	73.9	94.5	270,300 *
32	72.5	93.9	253,700 *
34	71.2	93.3	238,900 *
36	69.9	92.6	221,800 *
38	68.5	91.8	205,100 *
40	67.1	91.0	190,600 *
42	65.7	90.1	177,900 *
44	64.3	89.2	166,700 *
46	62.9	88.2	156,700 *
48	61.5	87.1	147,800 *
50	60.0	86.0	139,700 *
55	56.3	82.9	122,800 *
60	52.3	79.3	109,200 *
65	48.2	75.2	98,100 *
70	43.8	70.3	88,800 *
75	38.9	64.6	80,900 *
80	33.6	57.8	74,200 *
85	27.3	49.3	67,300 *
90	19.2	37.6	57,300 *
<b>100 Ft. BOOM</b>			
19	82.0	107.1	364,000 *
20	81.4	106.9	358,600 *
22	80.2	106.6	348,200 *
24	79.0	106.2	335,300 *
26	77.9	105.8	310,400 *
28	76.7	105.4	288,900 *
30	75.5	104.9	270,000 *
32	74.3	104.4	253,300 *
34	73.1	103.8	238,500 *
36	71.9	103.1	221,900 *
38	70.7	102.5	205,100 *
40	69.5	101.7	190,500 *
42	68.3	101.0	177,800 *
44	67.0	100.2	166,600 *
46	65.8	99.3	156,600 *
48	64.5	98.4	147,700 *
50	63.3	97.4	139,600 *
55	60.0	94.7	122,700 *
60	56.6	91.6	109,100 *
65	53.1	88.1	97,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>100 Ft. BOOM</b>			
70	49.5	84.1	88,600 *
75	45.6	79.5	80,800 *
80	41.4	74.2	74,000 *
85	36.9	68.1	68,100 *
90	31.8	60.7	63,000 *
95	25.8	51.7	57,400 *
100	18.2	39.3	49,900 *
<b>110 Ft. BOOM</b>			
22	81.1	116.7	314,400 *
24	80.1	116.4	306,200 *
26	79.0	116.0	298,400 *
28	77.9	115.6	288,200 *
30	76.9	115.2	269,300 *
32	75.8	114.7	252,700 *
34	74.7	114.2	237,900 *
36	73.6	113.6	221,600 *
38	72.5	113.0	204,800 *
40	71.4	112.4	190,300 *
42	70.3	111.7	177,500 *
44	69.2	110.9	166,300 *
46	68.1	110.1	156,300 *
48	67.0	109.3	147,300 *
50	65.9	108.4	139,300 *
55	63.0	106.0	122,300 *
60	60.0	103.3	108,700 *
65	56.9	100.3	97,500 *
70	53.8	96.8	88,200 *
75	50.5	92.9	80,400 *
80	47.0	88.5	73,600 *
85	43.3	83.6	67,700 *
90	39.4	77.9	62,600 *
95	35.1	71.3	58,000 *
100	30.3	63.5	54,000 *
105	24.6	53.9	49,000 *
110	17.3	40.9	42,700 *



# Liftcrane Boom Capacities

Meets  
**ANSI B30.5**  
 Requirements

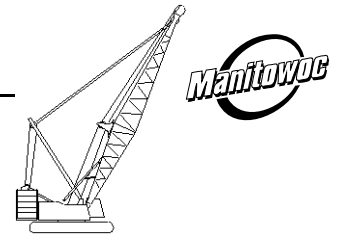
**Boom No. 22E With Open Throat Top**  
**219,600 Lb. Crane Counterweight**  
**80,000 Lb. Carbody Counterweight**  
**360 Degree Rating**

## 999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>120 Ft. BOOM</b>			
22	81.9	126.9	305,900 *
24	80.9	126.6	298,000 *
26	79.9	126.2	290,400 *
28	78.9	125.8	283,100 *
30	78.0	125.4	268,900 *
32	77.0	125.0	252,200 *
34	76.0	124.5	237,400 *
36	75.0	124.0	221,400
38	74.0	123.4	204,600
40	73.0	122.9	190,000
42	72.0	122.2	177,300
44	71.0	121.6	166,000
46	70.0	120.8	156,000
48	69.0	120.1	147,100
50	68.0	119.3	139,000
55	65.4	117.2	122,000
60	62.7	114.7	108,400
65	60.0	112.0	97,200
70	57.2	108.9	87,900
75	54.3	105.5	80,100
80	51.3	101.7	73,300
85	48.2	97.5	67,500
90	44.9	92.8	62,300
95	41.4	87.4	57,800
100	37.7	81.4	53,700
105	33.6	74.4	50,100
110	29.0	66.2	46,800
115	23.6	56.0	42,300 *
120	16.6	42.3	36,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>130 Ft. BOOM</b>			
24	81.6	136.7	277,300 *
26	80.7	136.4	270,900 *
28	79.8	136.0	264,600 *
30	78.9	135.6	258,600 *
32	78.0	135.2	252,000 *
34	77.1	134.8	237,200 *
36	76.2	134.3	221,400
38	75.3	133.8	204,600
40	74.4	133.3	190,000
42	73.5	132.7	177,200
44	72.5	132.1	166,000
46	71.6	131.4	156,000
48	70.7	130.8	147,000
50	69.7	130.0	138,900
55	67.4	128.1	121,900
60	65.0	125.9	108,300
65	62.5	123.4	97,100
70	60.0	120.7	87,800
75	57.4	117.6	80,000
80	54.8	114.3	73,200
85	52.0	110.5	67,400
90	49.2	106.4	62,200
95	46.2	101.9	57,700
100	43.0	96.8	53,700
105	39.7	91.1	50,000
110	36.1	84.7	46,800
115	32.2	77.4	43,800
120	27.8	68.7	41,100
125	22.6	58.1	36,800 *
130	15.9	43.8	32,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>140 Ft. BOOM</b>			
26	81.4	146.5	260,300 *
28	80.5	146.2	254,400 *
30	79.7	145.8	248,700 *
32	78.9	145.4	243,300 *
34	78.0	145.0	236,700 *
36	77.2	144.6	221,100
38	76.4	144.1	204,300
40	75.5	143.6	189,700
42	74.7	143.1	176,900
44	73.8	142.5	165,600
46	73.0	141.9	155,600
48	72.1	141.3	146,700
50	71.3	140.6	138,600
55	69.1	138.8	121,600
60	66.9	136.8	107,900
65	64.6	134.6	96,800
70	62.3	132.1	87,500
75	60.0	129.3	79,600
80	57.6	126.3	72,900
85	55.2	123.0	67,000
90	52.6	119.3	61,900
95	50.0	115.3	57,300
100	47.3	110.9	53,300
105	44.4	106.0	49,700
110	41.4	100.7	46,400
115	38.2	94.7	43,500
120	34.8	87.9	40,800
125	31.0	80.2	38,300
130	26.8	71.1	35,600 *
135	21.8	60.0	31,900 *
140	15.4	45.2	27,800 *



# Liftcrane Boom Capacities

Meets  
**ANSI B30.5**  
 Requirements

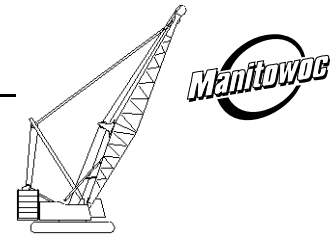
**Boom No. 22E With Open Throat Top**  
**219,600 Lb. Crane Counterweight**  
**80,000 Lb. Carbody Counterweight**  
**360 Degree Rating**

## 999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>150 Ft. BOOM</b>			
26	82.0	156.6	240,500 *
28	81.2	156.3	235,500 *
30	80.4	156.0	230,700 *
32	79.6	155.6	226,000 *
34	78.9	155.2	221,400 *
36	78.1	154.8	217,000 *
38	77.3	154.4	204,000
40	76.5	153.9	189,400
42	75.7	153.4	176,600
44	74.9	152.9	165,300
46	74.1	152.4	155,300
48	73.3	151.8	146,300
50	72.5	151.2	138,200
55	70.5	149.5	121,200
60	68.5	147.6	107,500
65	66.4	145.5	96,300
70	64.3	143.3	87,000
75	62.2	140.7	79,100
80	60.0	138.0	72,400
85	57.8	135.0	66,500
90	55.5	131.7	61,400
95	53.1	128.1	56,900
100	50.7	124.2	52,800
105	48.2	119.9	49,200
110	45.6	115.2	46,000
115	42.8	110.0	43,000
120	39.9	104.4	40,300
125	36.9	98.1	37,900
130	33.6	91.0	35,600
135	29.9	82.9	33,500
140	25.8	73.5	30,600 *
145	21.0	61.9	27,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>160 Ft. BOOM</b>			
28	81.7	166.4	225,000 *
30	81.0	166.1	220,500 *
32	80.3	165.8	216,100 *
34	79.6	165.4	211,800 *
36	78.8	165.0	207,600 *
38	78.1	164.6	203,600 *
40	77.4	164.2	189,000
42	76.6	163.7	176,200
44	75.9	163.2	164,900
46	75.2	162.7	154,900
48	74.4	162.2	145,900
50	73.7	161.6	137,800
55	71.8	160.1	120,800
60	69.9	158.3	107,100
65	68.0	156.4	95,900
70	66.0	154.3	86,600
75	64.1	151.9	78,700
80	62.0	149.4	72,000
85	60.0	146.6	66,100
90	57.9	143.6	61,000
95	55.8	140.4	56,400
100	53.6	136.8	52,400
105	51.3	133.0	48,800
110	49.0	128.8	45,600
115	46.6	124.3	42,600
120	44.0	119.3	39,900
125	41.4	113.9	37,500
130	38.6	107.9	35,200
135	35.7	101.3	33,100
140	32.5	93.9	31,200
145	29.0	85.5	29,200 *
150	25.0	75.7	26,300 *
155	20.4	63.7	23,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>170 Ft. BOOM</b>			
30	81.5	176.2	208,300 *
32	80.9	175.9	204,500 *
34	80.2	175.6	200,900 *
36	79.5	175.2	197,300 *
38	78.8	174.8	193,700 *
40	78.1	174.4	188,800
42	77.4	174.0	176,000
44	76.7	173.5	164,700
46	76.0	173.1	154,700
48	75.3	172.5	145,700
50	74.7	172.0	137,600
55	72.9	170.5	120,500
60	71.1	168.9	106,900
65	69.3	167.1	95,700
70	67.5	165.2	86,400
75	65.7	163.0	78,500
80	63.8	160.6	71,700
85	61.9	158.1	65,800
90	60.0	155.3	60,700
95	58.0	152.3	56,200
100	56.0	149.0	52,100
105	54.0	145.5	48,500
110	51.9	141.8	45,300
115	49.7	137.7	42,300
120	47.4	133.3	39,700
125	45.1	128.5	37,200
130	42.7	123.3	35,000
135	40.1	117.6	32,900
140	37.4	111.4	31,000
145	34.6	104.5	29,200
150	31.5	96.8	27,500
155	28.1	88.1	25,300 *
160	24.2	77.9	22,700 *
165	19.7	65.5	20,100 *



# Liftcrane Boom Capacities

Meets  
ANSI B30.5  
Requirements

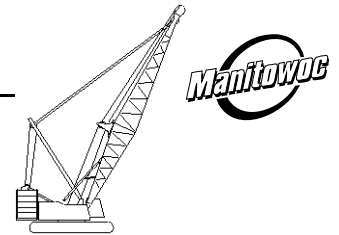
Boom No. 22E With Open Throat Top  
219,600 Lb. Crane Counterweight  
80,000 Lb. Carbody Counterweight  
360 Degree Rating

## 999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>180 Ft. BOOM</b>			
30	82.0	186.3	197,700 *
32	81.4	186.0	194,200 *
34	80.7	185.7	190,800 *
36	80.1	185.4	187,400 *
38	79.4	185.0	184,100 *
40	78.8	184.6	180,900 *
42	78.1	184.2	175,600
44	77.5	183.8	164,300
46	76.8	183.3	154,300
48	76.2	182.9	145,300
50	75.5	182.4	137,200
55	73.9	181.0	120,100
60	72.2	179.5	106,400
65	70.5	177.8	95,300
70	68.8	175.9	85,900
75	67.1	173.9	78,100
80	65.4	171.7	71,300
85	63.6	169.3	65,400
90	61.8	166.7	60,300
95	60.0	164.0	55,800
100	58.1	161.0	51,700
105	56.3	157.7	48,100
110	54.3	154.3	44,900
115	52.3	150.5	41,900
120	50.3	146.5	39,200
125	48.2	142.2	36,800
130	46.0	137.6	34,600
135	43.8	132.6	32,500
140	41.4	127.1	30,600
145	38.9	121.2	28,800
150	36.3	114.7	27,200
155	33.6	107.6	25,600
160	30.6	99.6	23,900 *
165	27.3	90.5	21,600 *
170	23.6	80.0	19,300 *
175	19.2	67.2	17,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>190 Ft. BOOM</b>			
32	81.8	196.1	181,000 *
34	81.2	195.8	178,100 *
36	80.6	195.5	175,200 *
38	80.0	195.2	172,400 *
40	79.4	194.8	169,700 *
42	78.8	194.4	166,900 *
44	78.2	194.0	164,000
46	77.5	193.6	153,900
48	76.9	193.1	144,900
50	76.3	192.7	136,800
55	74.7	191.4	119,700
60	73.2	189.9	106,000
65	71.6	188.3	94,800
70	70.0	186.6	85,500
75	68.4	184.7	77,600
80	66.8	182.6	70,800
85	65.1	180.4	64,900
90	63.4	178.0	59,800
95	61.7	175.4	55,300
100	60.0	172.6	51,200
105	58.2	169.6	47,600
110	56.5	166.4	44,400
115	54.6	163.0	41,400
120	52.8	159.3	38,700
125	50.8	155.4	36,300
130	48.9	151.2	34,000
135	46.8	146.6	32,000
140	44.7	141.8	30,100
145	42.5	136.5	28,300
150	40.3	130.8	26,600
155	37.9	124.7	25,100
160	35.3	118.0	23,700
165	32.6	110.5	22,200 *
170	29.7	102.3	20,200 *
175	26.5	92.9	18,100 *
180	22.9	82.1	16,100 *
185	18.7	68.9	13,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>200 Ft. BOOM</b>			
34	81.7	206.0	168,000 *
36	81.1	205.7	165,400 *
38	80.5	205.3	162,800 *
40	79.9	205.0	160,200 *
42	79.3	204.6	157,600 *
44	78.8	204.2	155,100 *
46	78.2	203.8	152,700 *
48	77.6	203.4	144,500
50	77.0	202.9	136,400
55	75.5	201.7	119,300
60	74.0	200.4	105,600
65	72.5	198.9	94,400
70	71.0	197.2	85,000
75	69.5	195.4	77,100
80	68.0	193.5	70,400
85	66.4	191.4	64,500
90	64.8	189.1	59,300
95	63.3	186.7	54,800
100	61.6	184.1	50,800
105	60.0	181.3	47,200
110	58.3	178.3	43,900
115	56.6	175.1	41,000
120	54.9	171.7	38,300
125	53.1	168.1	35,800
130	51.3	164.2	33,600
135	49.5	160.1	31,500
140	47.5	155.6	29,600
145	45.6	150.9	27,800
150	43.5	145.8	26,200
155	41.4	140.4	24,700
160	39.2	134.5	23,200
165	36.9	128.1	21,900
170	34.4	121.1	20,600
175	31.8	113.4	18,800 *
180	29.0	104.9	16,900 *
185	25.8	95.2	15,100 *
190	22.3	84.1	13,200 *
195	18.2	70.5	11,300 *



# Liftcrane Boom Capacities

Meets  
ANSI B30.5  
Requirements

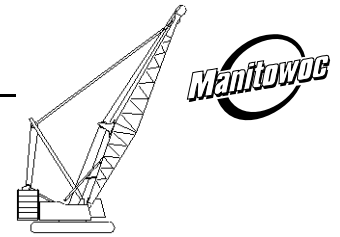
Boom No. 22E With Open Throat Top  
219,600 Lb. Crane Counterweight  
80,000 Lb. Carbody Counterweight  
360 Degree Rating

## 999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>210 Ft. BOOM</b>			
36	81.5	215.8	157,000 *
38	81.0	215.5	154,800 *
40	80.4	215.1	152,600 *
42	79.9	214.8	150,200 *
44	79.3	214.4	147,800 *
46	78.7	214.0	145,500 *
48	78.2	213.6	143,200 *
50	77.6	213.2	136,100
55	76.2	212.0	119,000
60	74.8	210.7	105,300
65	73.4	209.3	94,100
70	72.0	207.8	84,700
75	70.5	206.1	76,800
80	69.1	204.2	70,000
85	67.6	202.2	64,100
90	66.1	200.1	59,000
95	64.6	197.8	54,500
100	63.1	195.4	50,400
105	61.6	192.7	46,800
110	60.0	189.9	43,600
115	58.4	187.0	40,600
120	56.8	183.8	37,900
125	55.2	180.4	35,500
130	53.5	176.8	33,200
135	51.8	173.0	31,200
140	50.0	168.9	29,300
145	48.2	164.6	27,500
150	46.3	160.0	25,900
155	44.4	155.0	24,300
160	42.4	149.8	22,900
165	40.4	144.1	21,500
170	38.2	138.0	20,300
175	36.0	131.4	19,100
180	33.6	124.2	17,500 *
185	31.0	116.2	15,800 *
190	28.2	107.4	14,100 *
195	25.2	97.5	12,400 *
200	21.8	86.0	10,800 *
205	17.8	72.1	9,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>220 Ft. BOOM</b>			
36	81.9	225.9	148,800 *
38	81.4	225.6	146,700 *
40	80.8	225.3	144,600 *
42	80.3	224.9	142,600 *
44	79.8	224.6	140,500 *
46	79.3	224.2	138,400 *
48	78.7	223.8	136,200 *
50	78.2	223.4	134,100 *
55	76.9	222.3	118,500
60	75.5	221.1	104,800
65	74.2	219.7	93,600
70	72.8	218.2	84,300
75	71.4	216.6	76,400
80	70.1	214.9	69,600
85	68.7	213.0	63,700
90	67.3	211.0	58,600
95	65.9	208.8	54,000
100	64.4	206.5	50,000
105	63.0	204.0	46,400
110	61.5	201.4	43,100
115	60.0	198.6	40,200
120	58.5	195.6	37,500
125	56.9	192.5	35,000
130	55.4	189.1	32,800
135	53.8	185.6	30,700
140	52.1	181.8	28,800
145	50.5	177.8	27,000
150	48.8	173.5	25,400
155	47.0	169.0	23,900
160	45.2	164.2	22,400
165	43.3	159.1	21,100
170	41.4	153.6	19,800
175	39.4	147.7	18,700
180	37.3	141.4	17,500
185	35.1	134.6	16,100 *
190	32.8	127.1	14,500 *
195	30.3	119.0	12,900 *
200	27.6	109.9	11,400 *
205	24.6	99.7	9,900 *
210	21.3	87.9	8,300 *
215	17.3	73.6	6,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>230 Ft. BOOM</b>			
38	81.8	235.7	135,000 *
40	81.2	235.4	134,200 *
42	80.7	235.1	132,400 *
44	80.2	234.7	130,600 *
46	79.7	234.4	128,800 *
48	79.2	234.0	127,000 *
50	78.7	233.6	125,200 *
55	77.4	232.6	118,200
60	76.2	231.4	104,400
65	74.9	230.1	93,200
70	73.6	228.7	83,800
75	72.3	227.2	75,900
80	71.0	225.5	69,100
85	69.6	223.7	63,200
90	68.3	221.8	58,100
95	67.0	219.7	53,500
100	65.6	217.5	49,500
105	64.2	215.2	45,900
110	62.8	212.7	42,600
115	61.4	210.1	39,600
120	60.0	207.3	37,000
125	58.6	204.3	34,500
130	57.1	201.1	32,300
135	55.6	197.8	30,200
140	54.1	194.3	28,300
145	52.5	190.6	26,500
150	50.9	186.6	24,900
155	49.3	182.4	23,300
160	47.6	178.0	21,900
165	45.9	173.3	20,600
170	44.2	168.3	19,300
175	42.3	163.0	18,100
180	40.5	157.3	17,000
185	38.5	151.2	16,000
190	36.5	144.7	14,500 *
195	34.3	137.7	13,000 *
200	32.0	130.0	11,600 *
205	29.6	121.6	10,100 *
210	27.0	112.4	8,700 *
215	24.1	101.9	7,300 *
220	20.8	89.8	5,900 *
225	17.0	75.2	4,400 *



# Liftcrane Boom Capacities

Meets  
**ANSI B30.5**  
Requirements

**Boom No. 22E With Open Throat Top**  
**219,600 Lb. Crane Counterweight**  
**80,000 Lb. Carbody Counterweight**  
**360 Degree Rating**

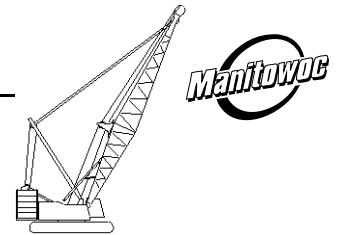
## 999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>240 Ft. BOOM</b>			
40	81.6	245.5	122,500 *
42	81.1	245.2	122,100 *
44	80.6	244.9	121,700 *
46	80.2	244.5	121,300 *
48	79.7	244.2	120,000 *
50	79.2	243.8	118,400 *
55	78.0	242.8	114,200 *
60	76.8	241.7	104,100
65	75.5	240.4	92,800
70	74.3	239.1	83,400
75	73.0	237.6	75,500
80	71.8	236.0	68,700
85	70.5	234.3	62,800
90	69.3	232.5	57,700
95	68.0	230.6	53,100
100	66.7	228.5	49,100
105	65.4	226.2	45,400
110	64.1	223.9	42,200
115	62.7	221.4	39,200
120	61.4	218.7	36,600
125	60.0	215.9	34,100
130	58.6	212.9	31,900
135	57.2	209.8	29,800
140	55.8	206.5	27,900
145	54.3	203.0	26,100
150	52.8	199.3	24,500
155	51.3	195.4	22,900
160	49.8	191.3	21,500
165	48.2	187.0	20,100
170	46.6	182.4	18,900
175	44.9	177.5	17,700
180	43.2	172.3	16,600
185	41.4	166.8	15,500
190	39.6	161.0	14,500
195	37.7	154.7	13,200 *
200	35.7	148.0	11,700 *
205	33.6	140.7	10,400 *
210	31.3	132.9	9,000 *
215	29.0	124.3	7,700 *
220	26.4	114.7	6,500 *
225	23.6	104.0	5,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>250 Ft. BOOM</b>			
40	82.0	255.6	110,900 *
42	81.5	255.3	110,500 *
44	81.0	255.0	110,100 *
46	80.6	254.7	109,800 *
48	80.1	254.3	109,400 *
50	79.6	254.0	109,000 *
55	78.5	253.0	106,300 *
60	77.3	251.9	102,500 *
65	76.1	250.8	92,400
70	74.9	249.5	83,100
75	73.7	248.1	75,100
80	72.5	246.6	68,300
85	71.3	244.9	62,400
90	70.1	243.2	57,300
95	68.9	241.3	52,700
100	67.7	239.3	48,700
105	66.4	237.2	45,100
110	65.2	235.0	41,800
115	63.9	232.6	38,900
120	62.6	230.0	36,200
125	61.3	227.4	33,700
130	60.0	224.6	31,500
135	58.7	221.6	29,400
140	57.3	218.5	27,500
145	55.9	215.2	25,700
150	54.5	211.7	24,100
155	53.1	208.1	22,500
160	51.7	204.2	21,100
165	50.2	200.2	19,800
170	48.7	195.9	18,500
175	47.2	191.4	17,300
180	45.6	186.6	16,200
185	43.9	181.6	15,200
190	42.3	176.2	14,200
195	40.5	170.5	13,200
200	38.7	164.5	11,900 *
205	36.9	158.1	10,500 *
210	34.9	151.2	9,200 *
215	32.9	143.7	8,000 *
220	30.7	135.6	6,800 *
225	28.4	126.8	5,600 *
230	25.8	117.0	4,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>260 Ft. BOOM</b>			
42	81.8	265.4	101,000 *
44	81.4	265.1	100,600 *
46	80.9	264.8	100,200 *
48	80.5	264.5	99,900 *
50	80.0	264.1	99,500 *
55	78.9	263.2	98,500 *
60	77.8	262.2	96,600 *
65	76.7	261.1	92,000
70	75.5	259.8	82,600
75	74.4	258.5	74,700
80	73.2	257.0	67,900
85	72.1	255.5	62,000
90	70.9	253.8	56,800
95	69.7	252.0	52,300
100	68.6	250.1	48,200
105	67.4	248.1	44,600
110	66.2	245.9	41,300
115	65.0	243.7	38,400
120	63.7	241.3	35,700
125	62.5	238.7	33,200
130	61.3	236.0	31,000
135	60.0	233.2	28,900
140	58.7	230.3	27,000
145	57.4	227.2	25,200
150	56.1	223.9	23,600
155	54.8	220.4	22,100
160	53.4	216.8	20,600
165	52.0	213.0	19,300
170	50.6	209.0	18,000
175	49.2	204.8	16,900
180	47.7	200.4	15,700
185	46.2	195.7	14,700
190	44.6	190.8	13,700
195	43.0	185.6	12,800
200	41.4	180.0	11,800 *
205	39.7	174.2	10,400 *
210	38.0	168.0	9,200 *
215	36.1	161.4	8,000 *
220	34.2	154.3	6,800 *
225	32.2	146.6	5,600 *
230	30.1	138.4	4,500 *





# Liftcrane Boom Capacities

Meets  
ANSI B30.5  
Requirements

**Boom No. 22E With Open Throat Top**  
**219,600 Lb. Crane Counterweight**  
**80,000 Lb. Carbody Counterweight**  
**360 Degree Rating**

## 999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>270 Ft. BOOM</b>			
44	81.7	275.2	91,900 *
46	81.3	274.9	91,500 *
48	80.8	274.6	91,200 *
50	80.4	274.3	90,800 *
55	79.3	273.4	89,900 *
60	78.2	272.4	88,900 *
65	77.2	271.3	87,700 *
70	76.1	270.1	82,200
75	75.0	268.8	74,200
80	73.9	267.4	67,400
85	72.8	265.9	61,500
90	71.7	264.3	56,300
95	70.5	262.6	51,800
100	69.4	260.8	47,700
105	68.3	258.9	44,100
110	67.1	256.8	40,800
115	66.0	254.6	37,900
120	64.8	252.4	35,200
125	63.6	249.9	32,700
130	62.4	247.4	30,500
135	61.2	244.7	28,400
140	60.0	241.9	26,500
145	58.8	238.9	24,700
150	57.5	235.8	23,100
155	56.3	232.6	21,500
160	55.0	229.1	20,100
165	53.7	225.6	18,800
170	52.3	221.8	17,500
175	51.0	217.8	16,300
180	49.6	213.7	15,200
185	48.2	209.3	14,100
190	46.7	204.7	13,200
195	45.3	199.9	12,200
200	43.8	194.8	11,300
205	42.2	189.5	10,200 *
210	40.6	183.8	8,900 *
215	38.9	177.8	7,700 *
220	37.2	171.4	6,600 *
225	35.4	164.6	5,400 *
230	33.6	157.3	4,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>280 Ft. BOOM</b>			
44	82.0	285.3	83,200 *
46	81.6	285.1	82,900 *
48	81.2	284.7	82,600 *
50	80.8	284.4	82,300 *
55	79.7	283.6	81,400 *
60	78.7	282.6	80,500 *
65	77.6	281.6	79,600 *
70	76.6	280.4	77,500 *
75	75.5	279.2	73,800
80	74.5	277.8	66,900
85	73.4	276.4	61,000
90	72.3	274.9	55,900
95	71.3	273.2	51,300
100	70.2	271.5	47,200
105	69.1	269.6	43,600
110	68.0	267.6	40,300
115	66.9	265.6	37,400
120	65.8	263.4	34,700
125	64.6	261.1	32,200
130	63.5	258.6	30,000
135	62.3	256.1	27,900
140	61.2	253.4	26,000
145	60.0	250.6	24,200
150	58.8	247.6	22,600
155	57.6	244.5	21,000
160	56.4	241.3	19,600
165	55.2	237.9	18,300
170	53.9	234.3	17,000
175	52.6	230.6	15,800
180	51.3	226.6	14,700
185	50.0	222.5	13,700
190	48.6	218.2	12,700
195	47.3	213.7	11,700
200	45.9	209.0	10,800
205	44.4	204.0	10,000 *
210	42.9	198.8	8,700 *
215	41.4	193.3	7,500 *
220	39.8	187.4	6,400 *
225	38.2	181.3	5,300 *
230	36.5	174.7	4,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
<b>290 Ft. BOOM</b>			
46	81.9	295.2	75,900 *
48	81.5	294.9	75,600 *
50	81.1	294.6	75,300 *
55	80.1	293.7	74,500 *
60	79.1	292.8	73,600 *
65	78.1	291.8	72,800 *
70	77.0	290.7	71,900 *
75	76.0	289.5	70,000 *
80	75.0	288.2	66,500
85	74.0	286.8	60,600
90	73.0	285.3	55,500
95	71.9	283.8	50,900
100	70.9	282.1	46,800
105	69.8	280.3	43,200
110	68.8	278.4	39,900
115	67.7	276.4	37,000
120	66.6	274.3	34,300
125	65.6	272.1	31,800
130	64.5	269.7	29,600
135	63.4	267.3	27,500
140	62.3	264.7	25,600
145	61.1	262.0	23,800
150	60.0	259.2	22,200
155	58.9	256.3	20,600
160	57.7	253.2	19,200
165	56.5	249.9	17,900
170	55.3	246.6	16,600
175	54.1	243.0	15,400
180	52.9	239.3	14,300
185	51.6	235.4	13,200
190	50.4	231.4	12,300
195	49.1	227.2	11,300
200	47.7	222.7	10,400
205	46.4	218.1	9,600
210	45.0	213.2	8,600 *
215	43.6	208.1	7,400 *
220	42.2	202.7	6,300 *
225	40.7	197.0	5,200 *
230	39.1	191.0	4,100 *