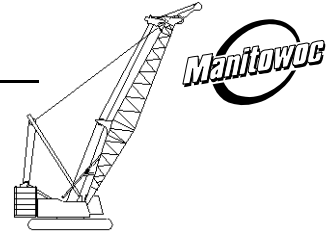


Liftcrane Boom Capacities

Boom No. 82 or 22EL
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 (*). 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. 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.

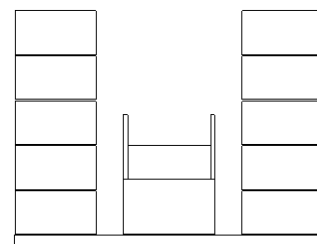
MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8225-A**.

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.

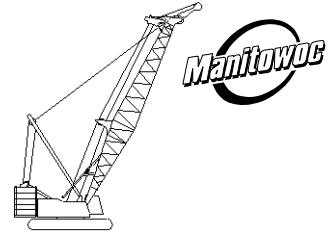
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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, 219,600 Lb. crane counterweight, two 22,000 Lb. and two 18,000 Lb. carbody counterweights.

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



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

999 SERIES 3

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) 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.
250 Ft.	80 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.			

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

¹ Note: Special equipment required.

Consult jib chart for jib capacities.

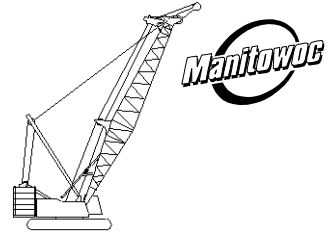
Upper boom point cannot be used when jib is attached.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.3	500,000 * ² b
17	82.0	77.1	462,500 * ² b
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	221,800 *
38	63.7	69.9	204,900 *
40	61.9	68.7	190,300 *
42	60.0	67.5	177,500 *
44	58.0	66.3	166,200 *
46	56.0	64.9	156,100 *
48	54.0	63.4	147,100 *
50	51.9	61.7	139,000 *
55	46.3	57.1	121,900 *
60	40.1	51.4	108,200 *
65	32.9	44.2	96,400 *
70	23.7	34.2	76,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	221,900 *
38	67.3	81.0	205,000 *
40	65.7	80.1	190,300 *
42	64.1	79.0	177,500 *
44	62.4	78.0	166,200 *
46	60.8	76.8	156,100 *
48	59.1	75.6	147,100 *
50	57.4	74.3	139,000 *
55	52.9	70.6	121,900 *
60	48.2	66.2	108,100 *
65	43.0	61.0	96,900 *
70	37.3	54.8	87,400 *
75	30.6	46.9	79,100 *
80	22.0	36.0	65,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	222,000 *
38	69.9	91.8	205,100 *
40	68.6	91.0	190,400 *
42	67.2	90.2	177,600 *
44	65.8	89.2	166,200 *
46	64.3	88.2	156,200 *
48	62.9	87.2	147,100 *
50	61.4	86.1	139,000 *
55	57.7	83.0	121,900 *
60	53.8	79.4	108,100 *
65	49.6	75.2	96,900 *
70	45.2	70.4	87,500 *
75	40.4	64.7	79,500 *
80	35.0	57.9	72,600 *
85	28.7	49.4	66,200 *
90	20.7	37.7	57,000 *

² See note on page 1.



Liftcrane Boom Capacities

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

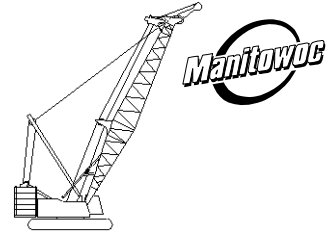
Meets
ANSI B30.5
Requirements

999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	222,200 *
38	72.0	102.5	205,200 *
40	70.8	101.8	190,500 *
42	69.6	101.0	177,700 *
44	68.3	100.2	166,300 *
46	67.1	99.3	156,300 *
48	65.8	98.4	147,200 *
50	64.6	97.4	139,100 *
55	61.3	94.7	121,900 *
60	57.9	91.6	108,200 *
65	54.4	88.1	96,900 *
70	50.8	84.1	87,500 *
75	46.9	79.5	79,600 *
80	42.7	74.3	72,700 *
85	38.2	68.1	66,800 *
90	33.1	60.8	61,600 *
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	222,100 *
38	73.7	113.0	205,100 *
40	72.6	112.4	190,400 *
42	71.5	111.7	177,500 *
44	70.4	111.0	166,200 *
46	69.3	110.2	156,100 *
48	68.2	109.4	147,100 *
50	67.0	108.5	138,900 *
55	64.1	106.1	121,700 *
60	61.2	103.4	108,000 *
65	58.1	100.3	96,700 *
70	55.0	96.9	87,300 *
75	51.7	93.0	79,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
80	48.2	88.6	72,500 *
85	44.5	83.6	66,600 *
90	40.6	77.9	61,400 *
95	36.3	71.4	56,800 *
100	31.5	63.6	52,700 *
105	25.8	54.0	47,900 *
110	18.6	40.9	41,600 *
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	222,100 *
38	75.1	123.5	205,100 *
40	74.1	122.9	190,400 *
42	73.1	122.3	177,500 *
44	72.1	121.6	166,100 *
46	71.1	120.9	156,000 *
48	70.1	120.1	147,000 *
50	69.1	119.3	138,800 *
55	66.5	117.2	121,600 *
60	63.8	114.8	107,900 *
65	61.1	112.0	96,600 *
70	58.3	109.0	87,200 *
75	55.4	105.6	79,200 *
80	52.4	101.8	72,400 *
85	49.3	97.6	66,500 *
90	46.0	92.8	61,300 *
95	42.5	87.5	56,700 *
100	38.7	81.4	52,600 *
105	34.6	74.5	48,900 *
110	30.0	66.2	45,600 *
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	205,100 *
40	75.4	133.3	190,400 *
42	74.5	132.7	177,500 *
44	73.5	132.1	166,100 *
46	72.6	131.5	156,000 *
48	71.7	130.8	146,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
50	70.7	130.1	138,800 *
55	68.4	128.1	121,600 *
60	66.0	125.9	107,800 *
65	63.5	123.4	96,500 *
70	61.0	120.7	87,100 *
75	58.4	117.7	79,200 *
80	55.8	114.3	72,300 *
85	53.0	110.6	66,400 *
90	50.2	106.5	61,200 *
95	47.2	101.9	56,600 *
100	44.0	96.9	52,500 *
105	40.7	91.2	48,900 *
110	37.1	84.8	45,600 *
115	33.2	77.4	42,600 *
120	28.8	68.7	39,800 *
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	205,000 *
40	76.4	143.7	190,200 *
42	75.6	143.1	177,300 *
44	74.7	142.6	165,900 *
46	73.9	142.0	155,800 *
48	73.0	141.3	146,800 *
50	72.2	140.7	138,600 *
55	70.0	138.9	121,400 *
60	67.8	136.8	107,600 *
65	65.5	134.6	96,300 *
70	63.3	132.1	86,900 *
75	60.9	129.3	78,900 *
80	58.5	126.3	72,100 *
85	56.1	123.0	66,200 *
90	53.5	119.3	61,000 *
95	50.9	115.3	56,400 *
100	48.2	110.9	52,300 *
105	45.3	106.1	48,700 *
110	42.3	100.7	45,400 *
115	39.1	94.7	42,400 *
120	35.7	88.0	39,600 *
125	31.9	80.2	37,100 *
130	27.7	71.2	34,400 *
135	22.7	60.1	30,600 *
140	16.3	45.2	26,500 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

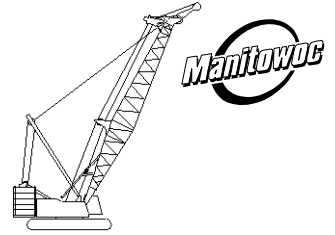
Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

999 SERIES 3

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	204,800
40	77.4	154.0	190,000
42	76.6	153.5	177,100
44	75.8	152.9	165,700
46	75.0	152.4	155,500
48	74.2	151.8	146,500
50	73.4	151.2	138,300
55	71.4	149.5	121,000
60	69.4	147.7	107,200
65	67.3	145.6	95,900
70	65.2	143.3	86,500
75	63.0	140.8	78,500
80	60.9	138.0	71,700
85	58.6	135.0	65,800
90	56.3	131.7	60,600
95	54.0	128.1	56,000
100	51.6	124.2	51,900
105	49.1	119.9	48,300
110	46.4	115.2	45,000
115	43.7	110.1	42,000
120	40.8	104.4	39,200
125	37.7	98.1	36,800
130	34.4	91.0	34,500
135	30.8	83.0	32,300
140	26.7	73.5	29,300 *
145	21.9	62.0	26,000 *
150	15.7	46.6	22,400 *
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	204,600
40	78.2	164.2	189,800
42	77.4	163.8	176,900
44	76.7	163.3	165,500
46	76.0	162.8	155,300
48	75.2	162.2	146,200
50	74.5	161.6	138,000
55	72.6	160.1	120,800
60	70.7	158.3	107,000
65	68.8	156.4	95,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	86,200
75	64.9	152.0	78,300
80	62.9	149.4	71,400
85	60.8	146.7	65,500
90	58.7	143.7	60,300
95	56.6	140.4	55,700
100	54.4	136.8	51,600
105	52.1	133.0	48,000
110	49.8	128.8	44,700
115	47.4	124.3	41,700
120	44.9	119.3	39,000
125	42.2	113.9	36,500
130	39.4	108.0	34,200
135	36.5	101.4	32,100
140	33.3	94.0	30,100
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 *
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	204,500
40	78.9	174.5	189,700
42	78.2	174.0	176,700
44	77.5	173.6	165,300
46	76.8	173.1	155,100
48	76.1	172.6	146,000
50	75.4	172.0	137,900
55	73.7	170.6	120,600
60	71.9	169.0	106,800
65	70.1	167.2	95,400
70	68.3	165.2	86,000
75	66.4	163.0	78,000
80	64.6	160.7	71,200
85	62.7	158.1	65,200
90	60.8	155.3	60,000
95	58.8	152.3	55,400
100	56.8	149.1	51,400
105	54.7	145.6	47,700
110	52.6	141.8	44,400
115	50.4	137.7	41,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
120	48.2	133.3	38,700
125	45.9	128.5	36,200
130	43.4	123.3	34,000
135	40.9	117.7	31,800
140	38.2	111.4	29,900
145	35.3	104.5	28,100
150	32.2	96.9	26,400
155	28.8	88.1	24,000 *
160	25.0	77.9	21,400 *
165	20.5	65.6	18,800 *
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	189,400
42	78.9	184.3	176,500
44	78.2	183.8	165,000
46	77.6	183.4	154,900
48	76.9	182.9	145,800
50	76.2	182.4	137,600
55	74.6	181.0	120,300
60	72.9	179.5	106,500
65	71.2	177.8	95,100
70	69.5	176.0	85,700
75	67.8	173.9	77,700
80	66.1	171.7	70,800
85	64.3	169.3	64,900
90	62.5	166.8	59,700
95	60.7	164.0	55,100
100	58.9	161.0	51,000
105	57.0	157.8	47,400
110	55.0	154.3	44,100
115	53.0	150.6	41,100
120	51.0	146.6	38,400
125	48.9	142.3	35,900
130	46.7	137.6	33,600
135	44.5	132.6	31,500
140	42.1	127.2	29,600
145	39.7	121.2	27,800
150	37.1	114.8	26,100
155	34.3	107.6	24,500
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

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

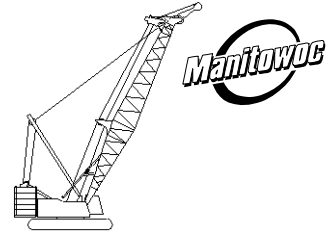
**Meets
ANSI B30.5
Requirements**

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	154,600
48	77.6	193.2	145,500
50	77.0	192.7	137,300
55	75.4	191.4	120,000
60	73.9	190.0	106,100
65	72.3	188.4	94,800
70	70.7	186.6	85,300
75	69.1	184.7	77,300
80	67.4	182.7	70,400
85	65.8	180.4	64,500
90	64.1	178.0	59,300
95	62.4	175.4	54,700
100	60.7	172.6	50,600
105	58.9	169.7	46,900
110	57.1	166.5	43,600
115	55.3	163.0	40,600
120	53.4	159.3	37,900
125	51.5	155.4	35,400
130	49.5	151.2	33,200
135	47.5	146.7	31,100
140	45.4	141.8	29,100
145	43.2	136.6	27,300
150	40.9	130.9	25,700
155	38.5	124.7	24,100
160	36.0	118.0	22,600
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	145,200
50	77.6	203.0	137,000
55	76.2	201.7	119,600
60	74.7	200.4	105,800
65	73.2	198.9	94,400
70	71.7	197.2	84,900
75	70.2	195.4	76,900
80	68.6	193.5	70,100
85	67.1	191.4	64,100
90	65.5	189.1	58,900
95	63.9	186.7	54,300
100	62.3	184.1	50,200
105	60.6	181.3	46,500
110	59.0	178.3	43,200
115	57.3	175.1	40,300
120	55.5	171.7	37,500
125	53.8	168.1	35,100
130	52.0	164.2	32,800
135	50.1	160.1	30,700
140	48.2	155.7	28,700
145	46.2	150.9	26,900
150	44.2	145.9	25,300
155	42.1	140.4	23,700
160	39.8	134.5	22,300
165	37.5	128.1	20,900
170	35.1	121.1	19,600
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	136,700
55	76.8	212.1	119,400
60	75.4	210.8	105,500
65	74.0	209.3	94,100
70	72.6	207.8	84,600
75	71.1	206.1	76,600
80	69.7	204.2	69,800
85	68.2	202.3	63,800
90	66.7	200.1	58,600
95	65.2	197.8	54,000
100	63.7	195.4	49,900
105	62.2	192.8	46,200
110	60.6	190.0	42,900
115	59.0	187.0	39,900
120	57.4	183.8	37,200
125	55.8	180.4	34,700
130	54.1	176.8	32,400
135	52.4	173.0	30,400
140	50.6	169.0	28,400
145	48.8	164.6	26,600
150	46.9	160.0	24,900
155	45.0	155.1	23,400
160	43.0	149.8	21,900
165	41.0	144.1	20,600
170	38.8	138.0	19,300
175	36.6	131.4	18,100
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

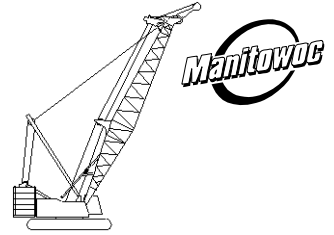
Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

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	119,000
60	76.1	221.1	105,100
65	74.8	219.8	93,800
70	73.4	218.3	84,300
75	72.0	216.7	76,300
80	70.7	214.9	69,400
85	69.3	213.0	63,400
90	67.9	211.0	58,200
95	66.4	208.8	53,600
100	65.0	206.5	49,500
105	63.6	204.1	45,800
110	62.1	201.4	42,500
115	60.6	198.6	39,500
120	59.1	195.6	36,800
125	57.5	192.5	34,300
130	56.0	189.1	32,100
135	54.4	185.6	30,000
140	52.7	181.8	28,000
145	51.1	177.8	26,200
150	49.4	173.6	24,500
155	47.6	169.0	23,000
160	45.8	164.2	21,500
165	43.9	159.1	20,200
170	42.0	153.6	18,900
175	40.0	147.7	17,700
180	37.9	141.4	16,600
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	118,700
60	76.7	231.4	104,700
65	75.4	230.1	93,300
70	74.1	228.7	83,800
75	72.8	227.2	75,800
80	71.5	225.5	68,900
85	70.2	223.7	63,000
90	68.9	221.8	57,700
95	67.5	219.8	53,100
100	66.2	217.6	49,000
105	64.8	215.2	45,300
110	63.4	212.7	42,000
115	62.0	210.1	39,000
120	60.6	207.3	36,300
125	59.1	204.3	33,800
130	57.6	201.2	31,600
135	56.1	197.8	29,500
140	54.6	194.3	27,500
145	53.1	190.6	25,700
150	51.5	186.6	24,000
155	49.9	182.5	22,500
160	48.2	178.0	21,000
165	46.5	173.3	19,700
170	44.7	168.3	18,400
175	42.9	163.0	17,200
180	41.0	157.3	16,100
185	39.1	151.3	15,000
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	118,300
60	77.3	241.7	104,400
65	76.1	240.5	93,000
70	74.8	239.1	83,500
75	73.6	237.7	75,400
80	72.3	236.1	68,500
85	71.1	234.4	62,500
90	69.8	232.5	57,300
95	68.5	230.6	52,700
100	67.2	228.5	48,600
105	65.9	226.3	44,900
110	64.6	223.9	41,600
115	63.3	221.4	38,600
120	61.9	218.7	35,900
125	60.5	215.9	33,400
130	59.2	213.0	31,100
135	57.7	209.8	29,000
140	56.3	206.5	27,100
145	54.9	203.0	25,300
150	53.4	199.3	23,600
155	51.9	195.4	22,100
160	50.3	191.3	20,600
165	48.7	187.0	19,200
170	47.1	182.4	18,000
175	45.4	177.5	16,800
180	43.7	172.3	15,600
185	41.9	166.8	14,600
190	40.1	161.0	13,500
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

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

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	104,700
65	76.6	250.8	93,300
70	75.4	249.5	83,800
75	74.3	248.1	75,800
80	73.1	246.6	68,900
85	71.9	244.9	62,900
90	70.6	243.2	57,700
95	69.4	241.3	53,000
100	68.2	239.3	48,900
105	66.9	237.2	45,300
110	65.7	235.0	42,000
115	64.4	232.6	39,000
120	63.1	230.1	36,200
125	61.8	227.4	33,700
130	60.5	224.6	31,500
135	59.2	221.6	29,400
140	57.8	218.5	27,400
145	56.5	215.2	25,600
150	55.1	211.7	24,000
155	53.6	208.1	22,400
160	52.2	204.2	20,900
165	50.7	200.2	19,600
170	49.2	195.9	18,300
175	47.7	191.4	17,100
180	46.1	186.6	16,000
185	44.5	181.6	14,900
190	42.8	176.3	13,900
195	41.1	170.6	12,900
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	92,900
70	76.0	259.8	83,400
75	74.9	258.5	75,400
80	73.7	257.0	68,500
85	72.6	255.5	62,500
90	71.4	253.8	57,300
95	70.2	252.0	52,600
100	69.1	250.1	48,500
105	67.9	248.1	44,800
110	66.7	245.9	41,500
115	65.5	243.7	38,500
120	64.2	241.3	35,800
125	63.0	238.7	33,300
130	61.8	236.1	31,000
135	60.5	233.3	28,900
140	59.2	230.3	27,000
145	57.9	227.2	25,200
150	56.6	223.9	23,500
155	55.3	220.5	22,000
160	53.9	216.8	20,500
165	52.5	213.0	19,200
170	51.1	209.0	17,900
175	49.7	204.8	16,700
180	48.2	200.4	15,500
185	46.7	195.7	14,500
190	45.1	190.8	13,500
195	43.5	185.6	12,500
200	41.9	180.1	11,600
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	83,000
75	75.5	268.9	74,900
80	74.4	267.5	68,000
85	73.2	266.0	62,000
90	72.1	264.4	56,800
95	71.0	262.7	52,200
100	69.9	260.8	48,000
105	68.7	258.9	44,400
110	67.6	256.8	41,000
115	66.4	254.7	38,000
120	65.3	252.4	35,300
125	64.1	250.0	32,800
130	62.9	247.4	30,500
135	61.7	244.7	28,400
140	60.5	241.9	26,500
145	59.2	239.0	24,700
150	58.0	235.9	23,000
155	56.7	232.6	21,400
160	55.4	229.2	20,000
165	54.1	225.6	18,600
170	52.8	221.8	17,400
175	51.5	217.9	16,200
180	50.1	213.7	15,000
185	48.7	209.3	14,000
190	47.2	204.8	12,900
195	45.8	199.9	12,000
200	44.2	194.8	11,100
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

Boom No. 82 or 22EL
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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	74,500
80	74.9	277.9	67,600
85	73.9	276.4	61,600
90	72.8	274.9	56,400
95	71.7	273.2	51,700
100	70.6	271.5	47,600
105	69.5	269.6	43,900
110	68.4	267.7	40,600
115	67.3	265.6	37,600
120	66.2	263.4	34,900
125	65.1	261.1	32,400
130	63.9	258.6	30,100
135	62.8	256.1	28,000
140	61.6	253.4	26,000
145	60.5	250.6	24,200
150	59.3	247.6	22,600
155	58.1	244.5	21,000
160	56.8	241.3	19,500
165	55.6	237.9	18,200
170	54.4	234.3	16,900
175	53.1	230.6	15,700
180	51.8	226.7	14,600
185	50.5	222.6	13,500
190	49.1	218.3	12,500
195	47.7	213.8	11,500
200	46.3	209.0	10,600
205	44.9	204.1	9,800
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	67,200
85	74.4	286.8	61,200
90	73.4	285.4	56,000
95	72.4	283.8	51,300
100	71.3	282.1	47,200
105	70.3	280.3	43,500
110	69.2	278.4	40,200
115	68.2	276.4	37,200
120	67.1	274.3	34,500
125	66.0	272.1	32,000
130	64.9	269.8	29,700
135	63.8	267.3	27,600
140	62.7	264.8	25,600
145	61.6	262.1	23,800
150	60.4	259.2	22,100
155	59.3	256.3	20,600
160	58.1	253.2	19,100
165	57.0	250.0	17,800
170	55.8	246.6	16,500
175	54.6	243.0	15,300
180	53.3	239.3	14,100
185	52.1	235.5	13,100
190	50.8	231.4	12,100
195	49.5	227.2	11,100
200	48.2	222.7	10,200
205	46.8	218.1	9,300
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 *