

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

222
222EX

New York City Code
Boom No. 222 With Open Throat Top
53,300 Lb. Counterweight
360 Degree Rating

LIFTING CAPACITIES: 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 (*). Retracted crawler capacities are not shown for boom positions which, without load, provide less than required ANSI B30.5 backward stability.

Upper boom point capacity for liftcrane service with single part whip line is 20,000 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. 193744** or **No. 910557** and Wire Rope Specification chart **No. 9071-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. 9143-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 22 Ft. 4 in. extendible crawlers, 36 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants, 1st counterweight = 28,500 Lb. and 2nd counterweight = 24,800 Lb.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 10
30 Ft.	1,700 Lbs.
40 Ft.	2,100 Lbs.
50 Ft.	2,600 Lbs.
60 Ft.	3,100 Lbs.

Maximum Boom and Jib Lengths Lifted Unassisted					
Over End of Crawlers		Over Side of Extended Crawlers		Over Side of Retracted Crawlers	
Boom Length	Jib No. 10	Boom Length	Jib No. 10	Boom Length	Jib No. 10
200 Ft.	---	200 Ft.	---	170 Ft.	---
190 Ft.	40 Ft.	190 Ft.	---	160 Ft.	---
180 Ft.	60 Ft.	180 Ft.	40 Ft.	150 Ft.	50 Ft.
		170 Ft.	60 Ft.	140 Ft.	60 Ft.

Load block, hook and weight ball on ground at start.

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



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40 Ft. BOOM				
10	80.7	44.9		200,000 *
11	79.2	44.7		200,000 *
12	77.8	44.5		185,300 *
13	76.3	44.2		171,100 *
14	74.8	44.0		158,800 *
15	73.3	43.7		148,200 *
16	71.8	43.3		137,400
17	70.3	43.0		123,200
18	68.8	42.6		111,600
19	67.2	42.2		101,900
20	65.6	41.7		93,800
22	62.4	40.7		80,800
24	59.1	39.6		71,000
26	55.7	38.3		63,100
28	52.1	36.8		56,900
30	48.4	35.1		51,600
32	44.4	33.2		47,300
34	40.1	30.9		43,600
36	35.4	28.3		40,300
38	30.0	25.1		37,600
40	23.5	21.1		35,100
50 Ft. BOOM				
11	81.4	54.8		197,200 *
12	80.2	54.7		184,500 *
13	79.1	54.5		170,900 *
14	77.9	54.3		158,700 *
15	76.7	54.0		148,100 *
16	75.5	53.8		137,400
17	74.4	53.5		123,200
18	73.2	53.2		111,600
19	72.0	52.9		101,900
20	70.7	52.5		93,800
22	68.3	51.8		80,800
24	65.8	50.9		70,900
26	63.2	49.9		63,000
28	60.6	48.9		56,800
30	58.0	47.6		51,500
32	55.2	46.3		47,200
34	52.3	44.8		43,400
36	49.4	43.2		40,200
38	46.3	41.3		37,500
40	43.0	39.3		35,000
45	33.6	32.8		30,000
50	20.9	23.0		26,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
60 Ft. BOOM				
12	81.9	64.8		173,600 *
13	80.9	64.6		169,900 *
14	79.9	64.5		155,900 *
15	79.0	64.3		142,600 *
16	78.0	64.1		132,600 *
17	77.0	63.8		122,900 *
18	76.0	63.6		111,500
19	75.0	63.3		101,800
20	74.1	63.0		93,700
22	72.1	62.4		80,600
24	70.0	61.7		70,800
26	68.0	60.9		62,900
28	65.9	60.1		56,600
30	63.8	59.1		51,400
32	61.6	58.1		47,000
34	59.4	56.9		43,300
36	57.2	55.7		40,000
38	54.9	54.3		37,300
40	52.5	52.8		34,800
45	46.1	48.5	21,800	29,800
50	39.0	43.0	19,000	26,000
55	30.6	35.7	16,800	22,900
60	19.0	24.7	15,000	20,500
70 Ft. BOOM				
14	81.4	74.6		149,900 *
15	80.6	74.5		138,400 *
16	79.7	74.3		127,500 *
17	78.9	74.1		118,700 *
18	78.1	73.9		111,400 *
19	77.2	73.6		101,700
20	76.4	73.4		93,600
22	74.7	72.9		80,500
24	73.0	72.3		70,700
26	71.3	71.6		62,800
28	69.5	70.9		56,500
30	67.8	70.1		51,300
32	66.0	69.2		46,900
34	64.2	68.3		43,100
36	62.3	67.3		39,900
38	60.5	66.2		37,200
40	58.6	65.0	25,200	34,700
45	53.6	61.6	21,600	29,700
50	48.3	57.5	18,900	25,900
55	42.5	52.5	16,700	22,800
60	36.0	46.3	14,900	20,300
65	28.3	38.3	13,400	18,300
70	17.6	26.3	12,100	16,600



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
80 Ft. BOOM				
15	81.8	84.6		133,500 *
16	81.0	84.4		122,900 *
17	80.3	84.3		115,200 *
18	79.6	84.1		107,400 *
19	78.8	83.9		100,600 *
20	78.1	83.7		93,500
22	76.6	83.2		80,400
24	75.2	82.7		70,500
26	73.7	82.1		62,600
28	72.2	81.5		56,400
30	70.7	80.8		51,100
32	69.1	80.1		46,700
34	67.6	79.3		42,900
36	66.0	78.4	28,500	39,700
38	64.4	77.5	26,700	37,000
40	62.8	76.5	24,900	34,500
45	58.7	73.7	21,400	29,500
50	54.4	70.3	18,600	25,600
55	49.9	66.4	16,400	22,600
60	45.0	61.8	14,600	20,100
65	39.6	56.2	13,200	18,100
70	33.6	49.4	11,900	16,400
75	26.4	40.7	10,800	14,900
80	16.4	27.7	9,800	13,700
90 Ft. BOOM				
17	81.4	94.4		111,700 *
18	80.7	94.2		104,000 *
19	80.1	94.1		98,700 *
20	79.5	93.9		92,700 *
22	78.2	93.5		80,200
24	76.8	93.0		70,300
26	75.5	92.5		62,500
28	74.2	92.0		56,200
30	72.9	91.4		50,900
32	71.5	90.7		46,500
34	70.2	90.0	30,500	42,800
36	68.8	89.3	28,300	39,500
38	67.5	88.4	26,500	36,800
40	66.1	87.6	24,800	34,400
45	62.5	85.1	21,200	29,300
50	58.9	82.3	18,500	25,500
55	55.1	79.0	16,200	22,400
60	51.1	75.2	14,400	19,900
65	46.8	70.9	13,000	18,000
70	42.3	65.7	11,700	16,300
75	37.3	59.7	10,600	14,800
80	31.6	52.3	9,700	13,500
85	24.8	42.9	8,900	12,400
90	15.5	29.1	8,100	11,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
100 Ft. BOOM				
18	81.7	104.4		101,100 *
19	81.1	104.2		95,900 *
20	80.5	104.0		90,100 *
22	79.4	103.7		80,100
24	78.2	103.3		70,200
26	77.0	102.8		62,300
28	75.8	102.3		56,100
30	74.6	101.8		50,800
32	73.5	101.2	32,900	46,400
34	72.3	100.6	30,400	42,600
36	71.0	99.9	28,100	39,400
38	69.8	99.2	26,300	36,700
40	68.6	98.4	24,600	34,200
45	65.5	96.3	21,100	29,200
50	62.3	93.8	18,300	25,300
55	59.0	91.0	16,100	22,300
60	55.6	87.7	14,300	19,800
65	52.0	84.1	12,900	17,900
70	48.3	79.8	11,600	16,100
75	44.3	75.0	10,500	14,700
80	40.0	69.5	9,500	13,400
85	35.3	62.9	8,700	12,300
90	29.9	55.1	8,000	11,300
95	23.5	45.0	7,300	10,500
100	14.7	30.4	6,700	9,700
110 Ft. BOOM				
19	81.9	114.3		93,500 *
20	81.4	114.2		87,800 *
22	80.3	113.8		78,800 *
24	79.3	113.5		70,000
26	78.2	113.1		62,100
28	77.1	112.6		55,900
30	76.1	112.1	35,600	50,600
32	75.0	111.6	32,700	46,200
34	73.9	111.0	30,100	42,500
36	72.8	110.4	28,100	39,400
38	71.7	109.8	26,100	36,500
40	70.6	109.1	24,400	34,100
45	67.8	107.2	20,900	29,000
50	65.0	105.0	18,100	25,200
55	62.1	102.5	15,900	22,100
60	59.1	99.6	14,100	19,600
65	56.0	96.4	12,700	17,700
70	52.8	92.8	11,400	16,000
75	49.4	88.8	10,300	14,500
80	45.9	84.2	9,400	13,200
85	42.1	79.0	8,500	12,100
90	38.1	73.0	7,800	11,100
95	33.6	66.0	7,100	10,300
100	28.5	57.6	6,600	9,500
105	22.4	47.1	6,000	8,800
110	14.0	31.7	5,600	8,200



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120 Ft. BOOM				
22	81.1	124.0		77,500 *
24	80.2	123.6		69,700 *
26	79.2	123.3	42,700	62,000
28	78.2	122.9	38,800	55,700
30	77.3	122.4	35,400	50,500
32	76.3	121.9	32,400	46,000
34	75.3	121.4	29,900	42,300
36	74.3	120.9	27,900	39,200
38	73.3	120.3	25,900	36,300
40	72.3	119.7	24,200	33,900
45	69.8	117.9	20,600	28,800
50	67.2	115.9	17,900	24,900
55	64.6	113.7	15,600	21,900
60	61.9	111.1	14,000	19,500
65	59.2	108.3	12,500	17,500
70	56.3	105.1	11,200	15,700
75	53.4	101.6	10,100	14,300
80	50.4	97.6	9,100	13,000
85	47.2	93.2	8,300	11,900
90	43.8	88.3	7,500	10,900
95	40.2	82.7	6,900	10,000
100	36.4	76.3	6,300	9,300
105	32.1	68.9	5,800	8,600
110	27.3	60.1	5,300	7,900
115	21.4	49.0	4,900	7,400
120	13.4	32.8	4,500	6,700 *
130 Ft. BOOM				
22	81.8	134.1		75,700 *
24	80.9	133.8	47,400	68,000 *
26	80.0	133.4	42,500	61,800
28	79.1	133.1	38,600	55,500
30	78.2	132.7	35,100	50,200
32	77.3	132.2	32,200	45,800
34	76.4	131.7	29,700	42,100
36	75.5	131.2	27,600	39,000
38	74.6	130.7	25,700	36,100
40	73.7	130.1	24,000	33,700
45	71.4	128.5	20,400	28,600
50	69.0	126.7	17,600	24,700
55	66.7	124.7	15,400	21,700
60	64.2	122.4	13,800	19,300
65	61.8	119.8	12,300	17,300
70	59.2	117.0	11,000	15,500
75	56.6	113.8	9,900	14,100
80	53.9	110.3	8,900	12,800
85	51.1	106.5	8,100	11,700
90	48.3	102.2	7,300	10,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
130 Ft. BOOM				
95	45.2	97.5	6,700	9,800
100	42.0	92.2	6,100	9,100
105	38.6	86.3	5,600	8,400
110	34.9	79.5	5,100	7,800
115	30.8	71.7	4,700	7,200
120	26.2	62.5	4,300	6,700
125	20.6	50.8	3,900	6,200
130	12.8	34.0	3,600	5,400 *
140 Ft. BOOM				
24	81.6	143.9	47,200	65,400 *
26	80.8	143.6	42,300	60,400 *
28	79.9	143.2	38,400	55,400
30	79.1	142.9	35,000	50,100
32	78.3	142.5	32,000	45,700
34	77.4	142.0	29,500	41,900
36	76.6	141.6	27,500	38,800
38	75.7	141.1	25,500	36,000
40	74.9	140.5	23,800	33,500
45	72.8	139.1	20,200	28,400
50	70.6	137.4	17,500	24,500
55	68.4	135.5	15,200	21,500
60	66.2	133.4	13,600	19,200
65	63.9	131.1	12,100	17,100
70	61.6	128.5	10,800	15,400
75	59.3	125.6	9,700	13,900
80	56.9	122.5	8,700	12,600
85	54.4	119.1	7,900	11,500
90	51.8	115.3	7,200	10,500
95	49.2	111.1	6,500	9,700
100	46.4	106.6	5,900	8,900
105	43.5	101.5	5,400	8,200
110	40.4	95.9	4,900	7,600
115	37.1	89.7	4,500	7,000
120	33.6	82.6	4,100	6,500
125	29.7	74.4	3,700	6,000
130	25.2	64.7	3,400	5,600
135	19.8	52.6	3,100	5,200
140	12.4	35.1		4,300 *



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150 Ft. BOOM				
26	81.4	153.7	42,300	55,600 *
28	80.6	153.4	38,200	55,200
30	79.8	153.0	34,700	49,900
32	79.1	152.7	31,800	45,500
34	78.3	152.3	29,300	41,700
36	77.5	151.8	27,200	38,600
38	76.7	151.4	25,300	35,800
40	75.9	150.9	23,600	33,300
45	73.9	149.5	20,000	28,200
50	71.9	148.0	17,200	24,300
55	69.9	146.2	15,000	21,300
60	67.9	144.3	13,400	19,000
65	65.8	142.1	11,900	16,900
70	63.7	139.7	10,600	15,200
75	61.5	137.1	9,500	13,700
80	59.3	134.3	8,500	12,400
85	57.1	131.2	7,700	11,300
90	54.8	127.8	7,000	10,300
95	52.4	124.1	6,300	9,500
100	49.9	120.0	5,700	8,700
105	47.4	115.6	5,200	8,000
110	44.7	110.8	4,700	7,400
115	41.9	105.4	4,300	6,800
120	39.0	99.5	3,900	6,300
125	35.8	93.0	3,500	5,800
130	32.4	85.5	3,200	5,400
135	28.6	77.0		5,000
140	24.3	66.9		4,600
145	19.1	54.3		4,300 *
150	11.9	36.1		3,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
160 Ft. BOOM				
26	81.9	163.8	42,100	47,900 *
28	81.2	163.5	38,000	47,500 *
30	80.5	163.2	34,500	46,700 *
32	79.7	162.8	31,600	45,300
34	79.0	162.5	29,000	41,500
36	78.3	162.1	27,000	38,400
38	77.6	161.6	25,100	35,600
40	76.8	161.2	23,400	33,100
45	75.0	159.9	19,800	28,000
50	73.1	158.5	17,000	24,100
55	71.2	156.8	14,800	21,000
60	69.3	155.0	13,200	18,800
65	67.4	153.0	11,600	16,700
70	65.4	150.8	10,400	15,000
75	63.5	148.4	9,300	13,500
80	61.4	145.8	8,300	12,200
85	59.4	142.9	7,500	11,100
90	57.3	139.8	6,700	10,100
95	55.1	136.5	6,100	9,200
100	52.9	132.8	5,500	8,500
105	50.6	128.9	4,900	7,800
110	48.2	124.6	4,500	7,100
115	45.8	119.9	4,000	6,600
120	43.2	114.8	3,600	6,100
125	40.5	109.2	3,300	5,600
130	37.7	103.0		5,100
135	34.6	96.1		4,700
140	31.3	88.4		4,400
145	27.7	79.5		4,000
150	23.5	69.0		3,700
155	18.5	55.9		3,100 *



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170 Ft. BOOM				
28	81.7	173.6	37,700	40,400 *
30	81.0	173.3	34,300	39,700 *
32	80.4	173.0	31,600	39,300 *
34	79.7	172.6	29,000	38,700 *
36	79.0	172.3	26,800	38,200 *
38	78.3	171.9	24,900	35,400
40	77.6	171.4	23,100	32,900
45	75.9	170.2	19,600	27,800
50	74.1	168.9	16,800	23,900
55	72.4	167.4	14,600	20,800
60	70.6	165.7	12,900	18,500
65	68.8	163.8	11,400	16,500
70	67.0	161.8	10,100	14,700
75	65.1	159.5	9,000	13,300
80	63.3	157.1	8,100	12,000
85	61.3	154.5	7,200	10,900
90	59.4	151.6	6,500	9,900
95	57.4	148.5	5,800	9,000
100	55.4	145.2	5,300	8,200
105	53.3	141.6	4,700	7,600
110	51.2	137.7	4,200	6,900
115	49.0	133.5	3,800	6,400
120	46.7	128.9	3,400	5,800
125	44.3	124.0	3,100	5,400
130	41.9	118.7		4,900
135	39.3	112.8		4,500
140	36.5	106.3		4,200
145	33.6	99.2		3,800
150	30.4	91.1		3,500
155	26.9	81.9		3,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
180 Ft. BOOM				
30	81.5	183.4	34,300	34,500 *
32	80.9	183.1	31,400	33,900 *
34	80.3	182.8	28,800	33,300 *
36	79.6	182.4	26,600	32,900 *
38	79.0	182.1	24,700	32,400 *
40	78.3	181.6	22,900	32,000 *
45	76.7	180.5	19,400	27,600
50	75.0	179.3	16,600	23,700
55	73.4	177.8	14,300	20,600
60	71.7	176.3	12,800	18,400
65	70.0	174.5	11,200	16,300
70	68.3	172.6	9,900	14,600
75	66.6	170.5	8,800	13,100
80	64.8	168.2	7,900	11,800
85	63.1	165.8	7,000	10,700
90	61.3	163.1	6,300	9,700
95	59.4	160.3	5,600	8,800
100	57.6	157.2	5,100	8,100
105	55.7	153.9	4,500	7,400
110	53.7	150.3	4,100	6,700
115	51.7	146.5	3,600	6,200
120	49.6	142.4	3,200	5,600
125	47.5	138.0		5,200
130	45.3	133.2		4,700
135	43.0	128.0		4,300
140	40.6	122.4		4,000
145	38.1	116.3		3,600
150	35.5	109.6		3,300
155	32.6	102.1		3,000



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

222
222EX

New York City Code
Boom No. 222 With Open Throat Top
53,300 Lb. Counterweight
360 Degree Rating

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
190 Ft. BOOM				
30	82.0	193.6	29,900 *	29,900 *
32	81.4	193.3	29,300 *	29,300 *
34	80.8	192.9	28,600	28,800 *
36	80.2	192.6	26,400	28,300 *
38	79.5	192.2	24,400	28,300 *
40	78.9	191.9	22,700	27,200 *
45	77.4	190.8	19,100	26,100 *
50	75.8	189.6	16,300	23,500
55	74.3	188.3	14,100	20,400
60	72.7	186.8	12,500	18,200
65	71.1	185.1	11,000	16,100
70	69.5	183.3	9,700	14,400
75	67.9	181.4	8,600	12,900
80	66.3	179.2	7,700	11,600
85	64.6	176.9	6,800	10,500
90	62.9	174.5	6,100	9,500
95	61.2	171.8	5,400	8,600
100	59.5	168.9	4,800	7,800
105	57.7	165.9	4,300	7,100
110	55.9	162.6	3,800	6,500
115	54.1	159.1	3,400	5,900
120	52.2	155.3	3,000	5,400
125	50.2	151.3		5,000
130	48.2	146.9		4,500
135	46.2	142.3		4,100
140	44.0	137.3		3,700
145	41.8	131.9		3,400
150	39.5	126.0		3,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Crawlers Retracted Pounds	Boom Capacity Crawlers Extended Pounds
200 Ft. BOOM				
32	81.8	203.4	24,900 *	24,900 *
34	81.2	203.1	24,900 *	24,900 *
36	80.7	202.7	24,100 *	24,100 *
38	80.1	202.4	24,100 *	24,100 *
40	79.5	202.0	22,500	23,300 *
45	78.0	201.0	18,900	22,300 *
50	76.6	199.9	16,100	21,500 *
55	75.1	198.6	13,900	20,200
60	73.6	197.2	12,300	18,000
65	72.1	195.7	10,800	15,900
70	70.6	194.0	9,500	14,100
75	69.1	192.1	8,400	12,600
80	67.5	190.1	7,400	11,400
85	66.0	188.0	6,600	10,200
90	64.4	185.6	5,900	9,300
95	62.8	183.1	5,200	8,400
100	61.1	180.5	4,600	7,600
105	59.5	177.6	4,100	6,900
110	57.8	174.5	3,600	6,300
115	56.1	171.3	3,200	5,700
120	54.4	167.8		5,200
125	52.6	164.1		4,700
130	50.7	160.1		4,300
135	48.9	155.9		3,900
140	46.9	151.3		3,500
145	44.9	146.5		3,200