

Liftcrane Boom Capacities

2250 SERIES 1

**New York City Code
Boom No. 44 With Long Reach Top
169,200 Lb. Counterweight
360 Degree Rating**

**Meets
ANSI B30.5
Requirements**

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 for boom lengths thru 250 Ft. and New York City criteria of 1.4 factor applied to total machine moment for boom lengths 260 Ft. on up. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 30,000 Lbs. or 60,000 Lbs. with two part whip line. 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. 192054**, Wire Rope Specification chart **No. 8033-A**, and Counterweight Arrangement chart **No. 8026-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. 8028-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 30 Ft. 9 in. crawlers, 48 in. treads, 28 Ft. retractable gantry, 12 part boom hoist reeving, boom support straps and 169,200 Lb. counterweight.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 132
40 Ft.	6,400 Lbs.
60 Ft.	8,200 Lbs.
80 Ft.	10,300 Lbs.
100 Ft.	12,800 Lbs.
120 Ft.	15,300 Lbs.

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



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Maximum Boom and Jib Lengths Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 132	Boom Length	Jib No. 132	Boom Length	Jib No. 132
(a) (b) 330 Ft.	---	310 Ft.	---	290 Ft.	---
(a) (b) 320 Ft.	---	300 Ft.	---	280 Ft.	---
310 Ft.	---	290 Ft.	---	270 Ft.	---
300 Ft.	---	280 Ft.	40 Ft.	260 Ft.	40 Ft.
290 Ft.	---	270 Ft.	60 Ft.	250 Ft.	80 Ft.
280 Ft.	40 Ft.	260 Ft.	80 Ft.	240 Ft.	100 Ft.
(b) 280 Ft.	60 Ft.	(b) 260 Ft.	100 Ft.	230 Ft.	120 Ft.
270 Ft.	80 Ft.	250 Ft.	120 Ft.		
260 Ft.	100 Ft.				
(b) 260 Ft.	120 Ft.				

Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 330 Ft. and 320 Ft. boom. (b) Machine must be equipped with optional upperworks jacking cylinders.

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.7	196.3	210,000 *
34	82.1	196.0	210,000 *
36	81.5	195.7	210,000 *
38	80.8	195.4	210,000 *
40	80.2	195.0	202,100
42	79.6	194.7	187,900
44	79.0	194.3	175,400
46	78.4	193.9	164,300
48	77.8	193.4	154,500
50	77.2	193.0	145,700
55	75.6	191.7	127,100
60	74.0	190.3	112,400
65	72.5	188.8	100,400
70	70.9	187.1	90,500
75	69.3	185.2	82,100
80	67.6	183.2	75,000
85	66.0	181.0	68,800
90	64.3	178.7	63,400
95	62.6	176.1	58,600
100	60.9	173.4	54,400
105	59.2	170.5	50,700
110	57.4	167.3	47,300
115	55.6	164.0	44,200
120	53.7	160.4	41,400
125	51.8	156.5	38,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
130	49.8	152.4	36,600
135	47.8	148.0	34,500
140	45.8	143.2	32,500
145	43.6	138.1	30,700
150	41.3	132.5	29,000
155	39.0	126.5	27,400
160	36.5	120.0	25,900
165	33.9	112.8	24,600
170	31.0	104.8	23,300
175	27.9	95.8	22,100
200 Ft. BOOM			
32	83.0	206.4	210,000 *
34	82.5	206.1	210,000 *
36	81.9	205.8	210,000 *
38	81.3	205.5	210,000 *
40	80.7	205.2	201,600
42	80.1	204.8	187,300
44	79.6	204.5	174,800
46	79.0	204.1	163,800
48	78.4	203.7	153,900
50	77.8	203.2	145,100
55	76.3	202.0	126,500
60	74.9	200.7	111,800
65	73.4	199.3	99,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
200 Ft. BOOM			
70	71.9	197.7	89,900
75	70.3	195.9	81,500
80	68.8	194.0	74,300
85	67.3	192.0	68,100
90	65.7	189.7	62,700
95	64.1	187.4	58,000
100	62.5	184.8	53,700
105	60.9	182.1	50,000
110	59.2	179.1	46,600
115	57.5	176.0	43,500
120	55.8	172.7	40,700
125	54.0	169.1	38,200
130	52.2	165.3	35,900
135	50.4	161.3	33,800
140	48.5	156.9	31,800
145	46.5	152.3	30,000
150	44.5	147.3	28,300
155	42.4	142.0	26,700
160	40.2	136.2	25,200
165	38.0	130.0	23,900
170	35.5	123.2	22,600
175	33.0	115.8	21,400
180	30.2	107.5	20,200
185	27.2	98.2	19,200

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
210 Ft. BOOM			
34	82.8	216.2	210,000 *
36	82.3	215.9	210,000 *
38	81.7	215.6	210,000 *
40	81.2	215.3	201,400
42	80.6	215.0	187,100
44	80.1	214.6	174,600
46	79.5	214.3	163,500
48	79.0	213.9	153,700
50	78.4	213.5	144,800
55	77.0	212.3	126,300
60	75.6	211.1	111,600
65	74.2	209.7	99,600
70	72.8	208.2	89,600
75	71.3	206.5	81,200
80	69.9	204.7	74,100
85	68.4	202.8	67,900
90	66.9	200.7	62,500
95	65.4	198.4	57,700
100	63.9	196.0	53,500
105	62.4	193.5	49,700
110	60.8	190.7	46,400
115	59.2	187.8	43,300
120	57.6	184.7	40,500
125	56.0	181.4	38,000
130	54.3	177.9	35,700
135	52.6	174.1	33,500
140	50.9	170.1	31,600
145	49.1	165.9	29,700
150	47.2	161.3	28,000
155	45.4	156.5	26,500
160	43.4	151.3	25,000
165	41.3	145.8	23,600
170	39.2	139.8	22,300
175	37.0	133.3	21,100
180	34.6	126.3	20,000
185	32.1	118.6	18,900
190	29.4	110.1	17,900
195	26.5	100.6	17,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
220 Ft. BOOM			
36	82.6	226.0	210,000 *
38	82.1	225.7	210,000 *
40	81.6	225.4	200,800
42	81.1	225.1	186,600
44	80.5	224.8	174,000
46	80.0	224.4	163,000
48	79.5	224.1	153,100
50	78.9	223.7	144,300
55	77.6	222.6	125,700
60	76.3	221.4	110,900
65	74.9	220.1	98,900
70	73.6	218.6	89,000
75	72.2	217.1	80,600
80	70.8	215.4	73,400
85	69.4	213.5	67,200
90	68.0	211.5	61,800
95	66.6	209.4	57,100
100	65.2	207.2	52,800
105	63.7	204.7	49,100
110	62.3	202.1	45,700
115	60.8	199.4	42,600
120	59.3	196.5	39,800
125	57.7	193.4	37,300
130	56.2	190.1	35,000
135	54.6	186.6	32,800
140	53.0	182.9	30,900
145	51.3	178.9	29,000
150	49.6	174.8	27,400
155	47.9	170.3	25,800
160	46.1	165.6	24,300
165	44.2	160.6	22,900
170	42.3	155.2	21,700
175	40.3	149.5	20,400
180	38.3	143.3	19,300
185	36.1	136.6	18,200
190	33.8	129.4	17,200
195	31.4	121.4	16,300
200	28.8	112.7	15,400
205	25.9	102.9	14,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
230 Ft. BOOM			
36	83.0	236.1	196,300 *
38	82.5	235.8	194,300 *
40	81.9	235.6	192,400 *
42	81.4	235.3	186,100
44	80.9	234.9	173,500
46	80.4	234.6	162,500
48	79.9	234.2	152,600
50	79.4	233.9	143,700
55	78.1	232.8	125,200
60	76.9	231.7	110,400
65	75.6	230.4	98,400
70	74.3	229.1	88,400
75	73.0	227.6	80,000
80	71.7	225.9	72,900
85	70.4	224.2	66,700
90	69.0	222.3	61,300
95	67.7	220.3	56,500
100	66.3	218.1	52,300
105	65.0	215.8	48,500
110	63.6	213.4	45,100
115	62.2	210.8	42,000
120	60.8	208.1	39,300
125	59.3	205.1	36,700
130	57.8	202.0	34,400
135	56.4	198.8	32,300
140	54.8	195.3	30,300
145	53.3	191.6	28,500
150	51.7	187.8	26,800
155	50.1	183.6	25,200
160	48.5	179.3	23,700
165	46.8	174.7	22,300
170	45.0	169.8	21,100
175	43.2	164.6	19,900
180	41.4	159.0	18,700
185	39.4	153.1	17,600
190	37.4	146.7	16,600
195	35.3	139.8	15,700
200	33.0	132.3	14,800
205	30.7	124.2	13,900
210	28.1	115.2	13,100
215	25.3	105.1	12,300



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240 Ft. BOOM			
38	82.8	245.9	188,100 *
40	82.3	245.7	186,300 *
42	81.8	245.4	184,600 *
44	81.3	245.1	173,000
46	80.8	244.7	161,900
48	80.4	244.4	152,000
50	79.9	244.0	143,200
55	78.6	243.1	124,600
60	77.4	242.0	109,800
65	76.2	240.8	97,800
70	75.0	239.5	87,800
75	73.7	238.0	79,400
80	72.5	236.5	72,200
85	71.2	234.8	66,000
90	69.9	233.0	60,600
95	68.7	231.1	55,800
100	67.4	229.0	51,600
105	66.1	226.9	47,800
110	64.8	224.5	44,400
115	63.4	222.1	41,300
120	62.1	219.5	38,600
125	60.7	216.7	36,000
130	59.3	213.8	33,700
135	57.9	210.7	31,600
140	56.5	207.5	29,600
145	55.1	204.0	27,800
150	53.6	200.4	26,100
155	52.1	196.5	24,500
160	50.5	192.5	23,000
165	49.0	188.2	21,600
170	47.4	183.7	20,400
175	45.7	178.9	19,100
180	44.0	173.8	18,000
185	42.3	168.4	16,900
190	40.4	162.7	15,900
195	38.6	156.6	15,000
200	36.6	150.0	14,100
205	34.5	142.9	13,200
210	32.3	135.2	12,400
215	30.0	126.9	11,600
220	27.5	117.6	10,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
250 Ft. BOOM			
40	82.6	255.8	178,800 *
42	82.1	255.5	177,200 *
44	81.7	255.2	172,700
46	81.2	254.9	161,600
48	80.7	254.5	151,700
50	80.3	254.2	142,800
55	79.1	253.3	124,200
60	77.9	252.2	109,500
65	76.8	251.1	97,500
70	75.6	249.8	87,500
75	74.4	248.4	79,100
80	73.2	247.0	71,900
85	72.0	245.4	65,700
90	70.8	243.7	60,300
95	69.6	241.8	55,500
100	68.3	239.9	51,300
105	67.1	237.8	47,500
110	65.8	235.6	44,100
115	64.6	233.2	41,000
120	63.3	230.8	38,200
125	62.0	228.1	35,700
130	60.7	225.4	33,400
135	59.4	222.5	31,200
140	58.0	219.4	29,300
145	56.7	216.1	27,400
150	55.3	212.7	25,700
155	53.9	209.1	24,200
160	52.4	205.3	22,700
165	51.0	201.3	21,300
170	49.5	197.1	20,000
175	47.9	192.7	18,800
180	46.3	188.0	17,700
185	44.7	183.0	16,600
190	43.1	177.8	15,600
195	41.4	172.2	14,600
200	39.6	166.3	13,700
205	37.7	160.0	12,900
210	35.8	153.2	12,100
215	33.8	146.0	11,300
220	31.6	138.1	10,500
225	29.4	129.5	9,800
230	26.9	120.0	9,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
260 Ft. BOOM			
40	82.9	265.8	172,600 *
42	82.4	265.6	168,500
44	82.0	265.3	156,500
46	81.5	265.0	145,900
48	81.1	264.7	136,500
50	80.7	264.3	128,000
55	79.5	263.4	110,300
60	78.4	262.4	96,200
65	77.3	261.3	84,700
70	76.1	260.1	75,200
75	75.0	258.8	67,200
80	73.9	257.4	60,300
85	72.7	255.9	54,400
90	71.6	254.2	49,200
95	70.4	252.5	44,700
100	69.2	250.6	40,600
105	68.0	248.6	37,000
110	66.8	246.5	33,800
115	65.6	244.3	30,800
120	64.4	241.9	28,200
125	63.2	239.4	25,800
130	61.9	236.8	23,500
135	60.7	234.0	21,500
140	59.4	231.1	19,600
145	58.1	228.0	17,900
150	56.8	224.8	16,200
155	55.5	221.4	14,700
160	54.1	217.9	13,300
165	52.7	214.1	12,000
170	51.3	210.2	10,800
175	49.9	206.0	9,600
180	48.4	201.7	8,600
185	46.9	197.1	7,500
190	45.4	192.2	6,600
195	43.8	187.1	5,600
200	42.2	181.7	4,800
205	40.5	175.9	4,000

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270 Ft. BOOM			
42	82.7	275.7	154,500 *
44	82.3	275.4	153,700 *
46	81.9	275.1	145,200
48	81.4	274.8	135,800
50	81.0	274.5	127,300
55	79.9	273.6	109,500
60	78.8	272.7	95,400
65	77.8	271.6	83,900
70	76.7	270.4	74,400
75	75.6	269.2	66,400
80	74.5	267.8	59,500
85	73.4	266.3	53,600
90	72.3	264.8	48,400
95	71.1	263.1	43,900
100	70.0	261.3	39,800
105	68.9	259.4	36,200
110	67.7	257.4	33,000
115	66.6	255.2	30,000
120	65.4	253.0	27,400
125	64.2	250.6	24,900
130	63.1	248.1	22,700
135	61.9	245.5	20,700
140	60.6	242.7	18,800
145	59.4	239.8	17,000
150	58.2	236.7	15,400
155	56.9	233.5	13,900
160	55.6	230.1	12,500
165	54.3	226.6	11,200
170	53.0	222.9	10,000
175	51.7	219.0	8,800
180	50.3	214.9	7,700
185	48.9	210.6	6,700
190	47.5	206.1	5,700
195	46.0	201.3	4,800
200	44.5	196.3	4,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
280 Ft. BOOM			
42	83.0	285.7	143,000 *
44	82.6	285.5	142,300 *
46	82.2	285.2	141,600 *
48	81.7	284.9	134,900
50	81.3	284.6	126,500
55	80.3	283.8	108,700
60	79.2	282.8	94,600
65	78.2	281.8	83,100
70	77.2	280.7	73,500
75	76.1	279.5	65,500
80	75.0	278.2	58,600
85	74.0	276.8	52,700
90	72.9	275.3	47,500
95	71.8	273.7	42,900
100	70.8	271.9	38,900
105	69.7	270.1	35,300
110	68.6	268.2	32,000
115	67.5	266.1	29,100
120	66.4	264.0	26,400
125	65.2	261.7	24,000
130	64.1	259.3	21,800
135	62.9	256.8	19,700
140	61.8	254.1	17,800
145	60.6	251.4	16,100
150	59.4	248.4	14,500
155	58.2	245.4	13,000
160	57.0	242.2	11,600
165	55.8	238.8	10,300
170	54.5	235.3	9,000
175	53.3	231.6	7,900
180	52.0	227.8	6,800
185	50.7	223.7	5,800
190	49.3	219.5	4,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
290 Ft. BOOM			
44	82.8	295.6	132,600 *
46	82.4	295.3	131,900 *
48	82.0	295.0	131,300 *
50	81.6	294.7	126,000
55	80.6	293.9	108,200
60	79.6	293.0	94,100
65	78.6	292.0	82,600
70	77.6	291.0	73,000
75	76.6	289.8	65,000
80	75.6	288.5	58,100
85	74.6	287.2	52,200
90	73.5	285.7	47,000
95	72.5	284.2	42,500
100	71.4	282.5	38,400
105	70.4	280.8	34,800
110	69.3	278.9	31,500
115	68.3	276.9	28,600
120	67.2	274.9	25,900
125	66.1	272.7	23,500
130	65.1	270.4	21,300
135	64.0	268.0	19,200
140	62.8	265.5	17,400
145	61.7	262.8	15,600
150	60.6	260.0	14,000
155	59.5	257.1	12,500
160	58.3	254.1	11,100
165	57.1	250.9	9,800
170	55.9	247.5	8,500
175	54.7	244.0	7,400
180	53.5	240.4	6,300
185	52.3	236.6	5,300
190	51.0	232.6	4,300

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
300 Ft. BOOM			
46	82.7	305.4	119,900 *
48	82.3	305.1	119,200 *
50	81.9	304.8	118,500 *
55	80.9	304.1	107,300
60	80.0	303.2	93,200
65	79.0	302.2	81,600
70	78.0	301.2	72,100
75	77.0	300.1	64,000
80	76.1	298.9	57,200
85	75.1	297.6	51,200
90	74.1	296.2	46,000
95	73.1	294.7	41,500
100	72.1	293.1	37,400
105	71.1	291.4	33,800
110	70.1	289.6	30,500
115	69.0	287.7	27,600
120	68.0	285.7	24,900
125	67.0	283.6	22,500
130	65.9	281.4	20,300
135	64.9	279.1	18,200
140	63.8	276.7	16,300
145	62.8	274.1	14,600
150	61.7	271.5	13,000
155	60.6	268.7	11,400
160	59.5	265.8	10,000
165	58.4	262.7	8,700
170	57.2	259.5	7,500
175	56.1	256.2	6,300
180	54.9	252.7	5,200
185	53.7	249.1	4,200
310 Ft. BOOM			
46	82.9	315.5	108,000 *
48	82.5	315.2	107,500 *
50	82.2	314.9	105,900 *
55	81.2	314.2	101,600 *
60	80.3	313.4	92,300
65	79.4	312.4	80,800
70	78.4	311.4	71,300
75	77.5	310.3	63,200
80	76.5	309.2	56,300
85	75.6	307.9	50,400
90	74.6	306.5	45,200
95	73.7	305.1	40,600
100	72.7	303.6	36,600
105	71.7	301.9	32,900
110	70.7	300.2	29,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
310 Ft. BOOM			
115	69.8	298.4	26,700
120	68.8	296.5	24,100
125	67.8	294.5	21,600
130	66.8	292.3	19,400
135	65.8	290.1	17,300
140	64.7	287.8	15,500
145	63.7	285.3	13,700
150	62.7	282.8	12,100
155	61.6	280.1	10,600
160	60.6	277.3	9,200
165	59.5	274.4	7,800
170	58.4	271.4	6,600
175	57.3	268.2	5,400
180	56.2	264.9	4,400
320 Ft. BOOM			
48	82.8	325.3	99,700 *
50	82.4	325.0	98,100 *
55	81.5	324.3	94,500 *
60	80.6	323.5	90,500 *
65	79.7	322.6	80,200
70	78.8	321.6	70,700
75	77.9	320.6	62,600
80	77.0	319.5	55,700
85	76.0	318.2	49,800
90	75.1	316.9	44,600
95	74.2	315.5	40,000
100	73.2	314.0	35,900
105	72.3	312.5	32,300
110	71.4	310.8	29,000
115	70.4	309.1	26,100
120	69.5	307.2	23,400
125	68.5	305.3	21,000
130	67.5	303.2	18,800
135	66.6	301.1	16,700
140	65.6	298.8	14,800
145	64.6	296.5	13,100
150	63.6	294.0	11,400
155	62.6	291.5	9,900
160	61.6	288.8	8,500
165	60.5	286.0	7,200
170	59.5	283.1	6,000
175	58.5	280.1	4,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
330 Ft. BOOM			
48	83.0	335.4	87,800 *
50	82.6	335.1	86,400 *
55	81.8	334.4	82,500 *
60	80.9	333.6	78,900 *
65	80.0	332.8	75,700 *
70	79.1	331.8	71,700
75	78.2	330.8	63,700
80	77.4	329.7	56,800
85	76.5	328.5	50,800
90	75.6	327.3	45,700
95	74.7	325.9	41,100
100	73.8	324.5	37,000
105	72.9	323.0	33,400
110	71.9	321.4	30,100
115	71.0	319.7	27,200
120	70.1	317.9	24,500
125	69.2	316.0	22,100
130	68.2	314.0	19,900
135	67.3	312.0	17,800
140	66.4	309.8	15,900
145	65.4	307.5	14,200
150	64.4	305.2	12,500
155	63.5	302.7	11,000
160	62.5	300.1	9,600
165	61.5	297.5	8,300
170	60.5	294.7	7,100
175	59.5	291.7	5,900
180	58.5	288.7	4,800