

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code
Boom No. 78, Luffing Jib No. 139
105,000 Lb. Counterweight
360 Degree Rating

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

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Weight of luffing jib and 2,825 Lbs. suspended beneath luffing jib point sheaves have been included in capacity determination. 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. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. 179420**, Wire Rope Specification chart **No. 7985-A** and Luffing Jib Raising Procedure chart **No. 7986-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. 7987-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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants, 7 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants, two 1-3/8 in. luffing jib backstays, and 105,000 Lb. counterweight.

Luffing Jib Position During Operation	
Luffing Jib Length - Feet	Boom To Luffing Jib Angle
70	145 Degrees
80 - 90	150 Degrees
100 - 120	160 Degrees
130 - 170	168 Degrees

Consult chart **No. 8065-A** for luffing jib capacities.

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70 Ft. Luffing Jib, attached at 145 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	276,100 *
15	81.8	76.6	256,800 *
16	81.0	76.5	239,600 *
17	80.2	76.3	224,400 *
18	79.3	76.1	210,700 *
19	78.5	75.9	198,300 *
20	77.7	75.6	187,100 *
22	76.0	75.1	166,400
24	74.3	74.5	140,500
26	72.6	73.9	120,500
28	70.8	73.2	104,700
30	69.1	72.4	91,900
32	67.3	71.5	81,300
34	65.5	70.6	72,300
36	63.6	69.6	64,700
38	61.8	68.5	58,100
40	59.9	67.3	52,300
45	54.9	64.0	40,800
50	49.7	59.9	32,000
55	43.9	55.0	25,100
60	37.5	48.9	19,600
80 Ft. BOOM			
15	82.9	86.8	248,700 *
16	82.1	86.6	240,300 *
17	81.4	86.4	225,000 *
18	80.7	86.3	211,300 *
19	80.0	86.1	198,900 *
20	79.2	85.9	187,700 *
22	77.8	85.4	168,100 *
24	76.3	84.9	142,200
26	74.8	84.4	122,100
28	73.3	83.8	106,200
30	71.8	83.1	93,300
32	70.3	82.3	82,600
34	68.7	81.6	73,600
36	67.2	80.7	65,900
38	65.6	79.8	59,200
40	64.0	78.8	53,500
45	59.9	76.0	41,800
50	55.6	72.7	32,900
55	51.1	68.8	26,000
60	46.2	64.2	20,400
65	40.9	58.8	15,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	230,800 *
17	82.4	96.6	223,800 *
18	81.7	96.4	211,400 *
19	81.1	96.2	199,100 *
20	80.4	96.1	187,900 *
22	79.1	95.7	168,400 *
24	77.8	95.2	143,100
26	76.5	94.7	123,000
28	75.2	94.2	107,000
30	73.9	93.6	94,100
32	72.5	93.0	83,400
34	71.2	92.3	74,300
36	69.8	91.5	66,600
38	68.5	90.7	60,000
40	67.1	89.9	54,200
45	63.6	87.5	42,500
50	59.9	84.7	33,600
55	56.1	81.4	26,600
60	52.1	77.7	21,000
65	47.9	73.3	16,500
70	43.4	68.2	12,600
100 Ft. BOOM			
18	82.6	106.5	196,900 *
19	82.0	106.4	191,300 *
20	81.4	106.2	185,900 *
22	80.2	105.9	168,500 *
24	79.1	105.5	144,300
26	77.9	105.0	124,000
28	76.7	104.5	108,000
30	75.5	104.0	94,900
32	74.4	103.4	84,100
34	73.2	102.8	75,000
36	71.9	102.2	67,300
38	70.7	101.5	60,600
40	69.5	100.7	54,800
45	66.4	98.6	43,000
50	63.2	96.1	34,000
55	59.9	93.3	27,100
60	56.5	90.1	21,400
65	53.0	86.4	16,800
70	49.2	82.3	12,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	187,300 *
20	82.2	116.3	181,700 *
22	81.1	116.0	168,200 *
24	80.1	115.7	144,300
26	79.0	115.3	124,000
28	78.0	114.8	108,000
30	76.9	114.4	95,000
32	75.8	113.8	84,200
34	74.7	113.3	75,200
36	73.6	112.7	67,400
38	72.5	112.0	60,700
40	71.4	111.4	54,900
45	68.7	109.5	43,100
50	65.8	107.3	34,200
55	62.9	104.8	27,200
60	59.9	102.0	21,600
65	56.8	98.8	17,000
70	53.6	95.2	13,100
120 Ft. BOOM			
20	82.9	126.4	170,400 *
22	81.9	126.2	161,700 *
24	80.9	125.8	145,000
26	79.9	125.5	124,700
28	79.0	125.1	108,600
30	78.0	124.6	95,600
32	77.0	124.2	84,800
34	76.0	123.6	75,700
36	75.0	123.1	67,900
38	74.0	122.5	61,200
40	73.0	121.9	55,400
45	70.5	120.2	43,500
50	68.0	118.2	34,600
55	65.3	116.0	27,600
60	62.7	113.5	22,000
65	59.9	110.6	17,300
70	57.1	107.5	13,400
75	54.2	104.0	10,100

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105,000 Lb. Counterweight

360 Degree Rating

70 Ft. Luffing Jib, attached at 145 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	153,900 *
24	81.6	136.0	145,500
26	80.7	135.6	125,200
28	79.8	135.3	109,000
30	78.9	134.9	95,900
32	78.0	134.4	85,100
34	77.1	134.0	76,000
36	76.2	133.5	68,200
38	75.3	132.9	61,500
40	74.4	132.4	55,600
45	72.1	130.8	43,800
50	69.7	129.0	34,800
55	67.4	127.0	27,800
60	64.9	124.7	22,100
65	62.5	122.1	17,500
70	59.9	119.3	13,600
75	57.3	116.2	10,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	137,600 *
26	81.4	145.8	125,700
28	80.6	145.4	109,500
30	79.7	145.1	96,300
32	78.9	144.7	85,400
34	78.1	144.2	76,300
36	77.2	143.8	68,400
38	76.4	143.3	61,700
40	75.5	142.7	55,800
45	73.4	141.3	43,900
50	71.3	139.6	34,900
55	69.1	137.8	27,800
60	66.8	135.7	22,100
65	64.6	133.4	17,400
70	62.3	130.8	13,500
75	59.9	128.0	10,200



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	273,500 *
15	81.8	76.6	254,100 *
16	81.0	76.5	237,000 *
17	80.2	76.3	221,700 *
18	79.3	76.1	208,000 *
19	78.5	75.9	195,600 *
20	77.7	75.6	184,400 *
22	76.0	75.1	163,400
24	74.3	74.5	137,600
26	72.6	73.9	117,700
28	70.8	73.2	102,000
30	69.1	72.4	89,200
32	67.3	71.5	78,700
34	65.5	70.6	69,800
36	63.6	69.6	62,200
38	61.8	68.5	55,600
40	59.9	67.3	49,900
45	54.9	64.0	38,400
50	49.7	59.9	29,600
55	43.9	55.0	22,800
60	37.5	48.9	17,300
80 Ft. BOOM			
15	82.9	86.8	247,300 *
16	82.1	86.6	237,700 *
17	81.4	86.4	222,500 *
18	80.7	86.3	208,800 *
19	80.0	86.1	196,400 *
20	79.2	85.9	185,200 *
22	77.8	85.4	165,600
24	76.3	84.9	139,600
26	74.8	84.4	119,600
28	73.3	83.8	103,700
30	71.8	83.1	90,800
32	70.3	82.3	80,200
34	68.7	81.6	71,200
36	67.2	80.7	63,600
38	65.6	79.8	57,000
40	64.0	78.8	51,200
45	59.9	76.0	39,600
50	55.6	72.7	30,800
55	51.1	68.8	23,900
60	46.2	64.2	18,300
65	40.9	58.8	13,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	229,500 *
17	82.4	96.6	222,500 *
18	81.7	96.4	209,000 *
19	81.1	96.2	196,700 *
20	80.4	96.1	185,500 *
22	79.1	95.7	166,000 *
24	77.8	95.2	140,600
26	76.5	94.7	120,600
28	75.2	94.2	104,700
30	73.9	93.6	91,800
32	72.5	93.0	81,100
34	71.2	92.3	72,100
36	69.8	91.5	64,500
38	68.5	90.7	57,800
40	67.1	89.9	52,100
45	63.6	87.5	40,400
50	59.9	84.7	31,600
55	56.1	81.4	24,700
60	52.1	77.7	19,100
65	47.9	73.3	14,500
70	43.4	68.2	10,700
100 Ft. BOOM			
18	82.6	106.5	195,700 *
19	82.0	106.4	190,000 *
20	81.4	106.2	184,700 *
22	80.2	105.9	166,300 *
24	79.1	105.5	141,900
26	77.9	105.0	121,700
28	76.7	104.5	105,700
30	75.5	104.0	92,800
32	74.4	103.4	82,000
34	73.2	102.8	73,000
36	71.9	102.2	65,200
38	70.7	101.5	58,600
40	69.5	100.7	52,800
45	66.4	98.6	41,000
50	63.2	96.1	32,100
55	59.9	93.3	25,200
60	56.5	90.1	19,600
65	53.0	86.4	15,000
70	49.2	82.3	11,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	186,100 *
20	82.2	116.3	180,500 *
22	81.1	116.0	166,000 *
24	80.1	115.7	142,000
26	79.0	115.3	121,900
28	78.0	114.8	105,900
30	76.9	114.4	92,900
32	75.8	113.8	82,200
34	74.7	113.3	73,200
36	73.6	112.7	65,500
38	72.5	112.0	58,800
40	71.4	111.4	53,000
45	68.7	109.5	41,300
50	65.8	107.3	32,400
55	62.9	104.8	25,500
60	59.9	102.0	19,900
65	56.8	98.8	15,300
70	53.6	95.2	11,400
120 Ft. BOOM			
20	82.9	126.4	169,300 *
22	81.9	126.2	160,600 *
24	80.9	125.8	142,800
26	79.9	125.5	122,600
28	79.0	125.1	106,600
30	78.0	124.6	93,600
32	77.0	124.2	82,800
34	76.0	123.6	73,800
36	75.0	123.1	66,000
38	74.0	122.5	59,400
40	73.0	121.9	53,500
45	70.5	120.2	41,800
50	68.0	118.2	32,900
55	65.3	116.0	25,900
60	62.7	113.5	20,300
65	59.9	110.6	15,700
70	57.1	107.5	11,800

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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	152,800 *
24	81.6	136.0	143,400
26	80.7	135.6	123,100
28	79.8	135.3	107,100
30	78.9	134.9	94,000
32	78.0	134.4	83,200
34	77.1	134.0	74,100
36	76.2	133.5	66,400
38	75.3	132.9	59,700
40	74.4	132.4	53,800
45	72.1	130.8	42,100
50	69.7	129.0	33,100
55	67.4	127.0	26,100
60	64.9	124.7	20,500
65	62.5	122.1	15,900
70	59.9	119.3	12,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	136,500 *
26	81.4	145.8	123,700
28	80.6	145.4	107,600
30	79.7	145.1	94,500
32	78.9	144.7	83,600
34	78.1	144.2	74,500
36	77.2	143.8	66,700
38	76.4	143.3	60,000
40	75.5	142.7	54,100
45	73.4	141.3	42,200
50	71.3	139.6	33,300
55	69.1	137.8	26,200
60	66.8	135.7	20,600
65	64.6	133.4	15,900
70	62.3	130.8	12,000



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Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	268,500 *
15	81.8	76.6	249,300 *
16	81.0	76.5	232,300 *
17	80.2	76.3	217,200 *
18	79.3	76.1	203,600 *
19	78.5	75.9	191,400 *
20	77.7	75.6	180,200 *
22	76.0	75.1	158,500
24	74.3	74.5	133,100
26	72.6	73.9	113,700
28	70.8	73.2	98,200
30	69.1	72.4	85,700
32	67.3	71.5	75,300
34	65.5	70.6	66,600
36	63.6	69.6	59,100
38	61.8	68.5	52,700
40	59.9	67.3	47,100
45	54.9	64.0	35,800
50	49.7	59.9	27,200
55	43.9	55.0	20,500
60	37.5	48.9	15,200
80 Ft. BOOM			
15	82.9	86.8	245,200 *
16	82.1	86.6	233,200 *
17	81.4	86.4	218,100 *
18	80.7	86.3	204,500 *
19	80.0	86.1	192,200 *
20	79.2	85.9	181,100 *
22	77.8	85.4	160,800
24	76.3	84.9	135,200
26	74.8	84.4	115,600
28	73.3	83.8	100,000
30	71.8	83.1	87,400
32	70.3	82.3	76,900
34	68.7	81.6	68,100
36	67.2	80.7	60,600
38	65.6	79.8	54,100
40	64.0	78.8	48,500
45	59.9	76.0	37,100
50	55.6	72.7	28,400
55	51.1	68.8	21,700
60	46.2	64.2	16,300
65	40.9	58.8	11,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,500 *
17	82.4	96.6	218,400 *
18	81.7	96.4	204,900 *
19	81.1	96.2	192,600 *
20	80.4	96.1	181,600 *
22	79.1	95.7	162,000
24	77.8	95.2	136,400
26	76.5	94.7	116,700
28	75.2	94.2	101,100
30	73.9	93.6	88,500
32	72.5	93.0	78,000
34	71.2	92.3	69,100
36	69.8	91.5	61,600
38	68.5	90.7	55,100
40	67.1	89.9	49,400
45	63.6	87.5	38,000
50	59.9	84.7	29,300
55	56.1	81.4	22,500
60	52.1	77.7	17,100
65	47.9	73.3	12,600
100 Ft. BOOM			
18	82.6	106.5	193,900 *
19	82.0	106.4	188,200 *
20	81.4	106.2	181,900 *
22	80.2	105.9	162,600 *
24	79.1	105.5	137,800
26	77.9	105.0	118,000
28	76.7	104.5	102,300
30	75.5	104.0	89,500
32	74.4	103.4	78,900
34	73.2	102.8	70,100
36	71.9	102.2	62,500
38	70.7	101.5	55,900
40	69.5	100.7	50,200
45	66.4	98.6	38,700
50	63.2	96.1	30,000
55	59.9	93.3	23,100
60	56.5	90.1	17,600
65	53.0	86.4	13,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	184,400 *
20	82.2	116.3	178,900 *
22	81.1	116.0	162,400 *
24	80.1	115.7	138,000
26	79.0	115.3	118,200
28	78.0	114.8	102,500
30	76.9	114.4	89,800
32	75.8	113.8	79,200
34	74.7	113.3	70,300
36	73.6	112.7	62,800
38	72.5	112.0	56,200
40	71.4	111.4	50,500
45	68.7	109.5	39,000
50	65.8	107.3	30,300
55	62.9	104.8	23,500
60	59.9	102.0	18,000
65	56.8	98.8	13,500
120 Ft. BOOM			
20	82.9	126.4	167,800 *
22	81.9	126.2	159,100 *
24	80.9	125.8	138,900
26	79.9	125.5	119,000
28	79.0	125.1	103,300
30	78.0	124.6	90,500
32	77.0	124.2	79,900
34	76.0	123.6	71,000
36	75.0	123.1	63,400
38	74.0	122.5	56,800
40	73.0	121.9	51,100
45	70.5	120.2	39,500
50	68.0	118.2	30,800
55	65.3	116.0	23,900
60	62.7	113.5	18,400
65	59.9	110.6	13,900
70	57.1	107.5	10,100

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

90 Ft. Luffing Jib, attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	151,400 *
24	81.6	136.0	139,500
26	80.7	135.6	119,600
28	79.8	135.3	103,800
30	78.9	134.9	91,000
32	78.0	134.4	80,300
34	77.1	134.0	71,400
36	76.2	133.5	63,800
38	75.3	132.9	57,200
40	74.4	132.4	51,500
45	72.1	130.8	39,900
50	69.7	129.0	31,100
55	67.4	127.0	24,200
60	64.9	124.7	18,700
65	62.5	122.1	14,100
70	59.9	119.3	10,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	135,200 *
26	81.4	145.8	120,200
28	80.6	145.4	104,400
30	79.7	145.1	91,500
32	78.9	144.7	80,800
34	78.1	144.2	71,800
36	77.2	143.8	64,100
38	76.4	143.3	57,500
40	75.5	142.7	51,700
45	73.4	141.3	40,100
50	71.3	139.6	31,300
55	69.1	137.8	24,300
60	66.8	135.7	18,800
65	64.6	133.4	14,200
70	62.3	130.8	10,400



Liftcrane Boom Capacities With Luffing Jib Attached

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777 SERIES 1

New York City Code
Boom No. 78, Luffing Jib No. 139
105,000 Lb. Counterweight
360 Degree Rating

100 Ft. Luffing Jib, attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	272,000 *
15	81.8	76.6	252,400 *
16	81.0	76.5	235,000 *
17	80.2	76.3	219,500 *
18	79.3	76.1	205,600 *
19	78.5	75.9	193,100 *
20	77.7	75.6	181,700 *
22	76.0	75.1	160,400
24	74.3	74.5	134,400
26	72.6	73.9	114,400
28	70.8	73.2	98,600
30	69.1	72.4	85,800
32	67.3	71.5	75,100
34	65.5	70.6	66,200
36	63.6	69.6	58,500
38	61.8	68.5	51,900
40	59.9	67.3	46,100
45	54.9	64.0	34,500
50	49.7	59.9	25,700
55	43.9	55.0	18,800
60	37.5	48.9	13,300
80 Ft. BOOM			
15	82.9	86.8	246,700 *
16	82.1	86.6	236,100 *
17	81.4	86.4	220,600 *
18	80.7	86.3	206,700 *
19	80.0	86.1	194,200 *
20	79.2	85.9	182,900 *
22	77.8	85.4	163,000
24	76.3	84.9	136,900
26	74.8	84.4	116,700
28	73.3	83.8	100,800
30	71.8	83.1	87,800
32	70.3	82.3	77,100
34	68.7	81.6	68,100
36	67.2	80.7	60,400
38	65.6	79.8	53,700
40	64.0	78.8	47,900
45	59.9	76.0	36,200
50	55.6	72.7	27,300
55	51.1	68.8	20,400
60	46.2	64.2	14,800
65	40.9	58.8	10,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	228,900 *
17	82.4	96.6	221,100 *
18	81.7	96.4	207,300 *
19	81.1	96.2	194,800 *
20	80.4	96.1	183,500 *
22	79.1	95.7	163,800 *
24	77.8	95.2	138,300
26	76.5	94.7	118,100
28	75.2	94.2	102,100
30	73.9	93.6	89,100
32	72.5	93.0	78,400
34	71.2	92.3	69,300
36	69.8	91.5	61,600
38	68.5	90.7	54,900
40	67.1	89.9	49,100
45	63.6	87.5	37,400
50	59.9	84.7	28,500
55	56.1	81.4	21,500
60	52.1	77.7	15,900
65	47.9	73.3	11,300
100 Ft. BOOM			
18	82.6	106.5	194,900 *
19	82.0	106.4	189,300 *
20	81.4	106.2	183,800 *
22	80.2	105.9	164,200 *
24	79.1	105.5	139,800
26	77.9	105.0	119,500
28	76.7	104.5	103,400
30	75.5	104.0	90,400
32	74.4	103.4	79,600
34	73.2	102.8	70,400
36	71.9	102.2	62,700
38	70.7	101.5	56,000
40	69.5	100.7	50,100
45	66.4	98.6	38,300
50	63.2	96.1	29,300
55	59.9	93.3	22,300
60	56.5	90.1	16,600
65	53.0	86.4	12,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	185,400 *
20	82.2	116.3	179,800 *
22	81.1	116.0	164,200 *
24	80.1	115.7	140,200
26	79.0	115.3	119,900
28	78.0	114.8	103,800
30	76.9	114.4	90,800
32	75.8	113.8	80,000
34	74.7	113.3	70,900
36	73.6	112.7	63,100
38	72.5	112.0	56,400
40	71.4	111.4	50,600
45	68.7	109.5	38,800
50	65.8	107.3	29,800
55	62.9	104.8	22,800
60	59.9	102.0	17,100
65	56.8	98.8	12,500
120 Ft. BOOM			
20	82.9	126.4	168,600 *
22	81.9	126.2	159,800 *
24	80.9	125.8	141,200
26	79.9	125.5	120,900
28	79.0	125.1	104,800
30	78.0	124.6	91,700
32	77.0	124.2	80,800
34	76.0	123.6	71,700
36	75.0	123.1	63,900
38	74.0	122.5	57,100
40	73.0	121.9	51,300
45	70.5	120.2	39,400
50	68.0	118.2	30,500
55	65.3	116.0	23,400
60	62.7	113.5	17,800
65	59.9	110.6	13,100

Liftcrane Boom Capacities With Luffing Jib Attached

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ANSI B30.5
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777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

100 Ft. Luffing Jib, attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	152,100 *
24	81.6	136.0	142,000
26	80.7	135.6	121,600
28	79.8	135.3	105,400
30	78.9	134.9	92,200
32	78.0	134.4	81,400
34	77.1	134.0	72,200
36	76.2	133.5	64,400
38	75.3	132.9	57,600
40	74.4	132.4	51,700
45	72.1	130.8	39,900
50	69.7	129.0	30,900
55	67.4	127.0	23,800
60	64.9	124.7	18,100
65	62.5	122.1	13,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	135,700 *
26	81.4	145.8	122,300
28	80.6	145.4	106,100
30	79.7	145.1	92,800
32	78.9	144.7	81,900
34	78.1	144.2	72,700
36	77.2	143.8	64,800
38	76.4	143.3	58,000
40	75.5	142.7	52,100
45	73.4	141.3	40,200
50	71.3	139.6	31,100
55	69.1	137.8	24,000
60	66.8	135.7	18,300
65	64.6	133.4	13,600



Liftcrane Boom Capacities With Luffing Jib Attached

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New York City Code
Boom No. 78, Luffing Jib No. 139
105,000 Lb. Counterweight
360 Degree Rating

110 Ft. Luffing Jib, attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	268,600 *
15	81.8	76.6	249,100 *
16	81.0	76.5	231,800 *
17	80.2	76.3	216,400 *
18	79.3	76.1	202,600 *
19	78.5	75.9	190,200 *
20	77.7	75.6	178,900 *
22	76.0	75.1	156,900
24	74.3	74.5	131,200
26	72.6	73.9	111,500
28	70.8	73.2	95,900
30	69.1	72.4	83,200
32	67.3	71.5	72,600
34	65.5	70.6	63,800
36	63.6	69.6	56,300
38	61.8	68.5	49,700
40	59.9	67.3	44,100
45	54.9	64.0	32,600
50	49.7	59.9	23,900
55	43.9	55.0	17,100
60	37.5	48.9	11,700
80 Ft. BOOM			
15	82.9	86.8	244,900 *
16	82.1	86.6	233,000 *
17	81.4	86.4	217,600 *
18	80.7	86.3	203,900 *
19	80.0	86.1	191,400 *
20	79.2	85.9	180,100 *
22	77.8	85.4	159,700
24	76.3	84.9	133,800
26	74.8	84.4	113,900
28	73.3	83.8	98,200
30	71.8	83.1	85,400
32	70.3	82.3	74,800
34	68.7	81.6	65,800
36	67.2	80.7	58,200
38	65.6	79.8	51,700
40	64.0	78.8	45,900
45	59.9	76.0	34,400
50	55.6	72.7	25,600
55	51.1	68.8	18,700
60	46.2	64.2	13,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,200 *
17	82.4	96.6	218,200 *
18	81.7	96.4	204,500 *
19	81.1	96.2	192,100 *
20	80.4	96.1	180,900 *
22	79.1	95.7	161,200 *
24	77.8	95.2	135,400
26	76.5	94.7	115,400
28	75.2	94.2	99,600
30	73.9	93.6	86,800
32	72.5	93.0	76,200
34	71.2	92.3	67,200
36	69.8	91.5	59,600
38	68.5	90.7	53,000
40	67.1	89.9	47,200
45	63.6	87.5	35,600
50	59.9	84.7	26,800
55	56.1	81.4	20,000
60	52.1	77.7	14,400
100 Ft. BOOM			
18	82.6	106.5	193,400 *
19	82.0	106.4	187,700 *
20	81.4	106.2	181,400 *
22	80.2	105.9	161,800 *
24	79.1	105.5	137,000
26	77.9	105.0	116,900
28	76.7	104.5	101,000
30	75.5	104.0	88,100
32	74.4	103.4	77,400
34	73.2	102.8	68,400
36	71.9	102.2	60,700
38	70.7	101.5	54,100
40	69.5	100.7	48,300
45	66.4	98.6	36,600
50	63.2	96.1	27,800
55	59.9	93.3	20,800
60	56.5	90.1	15,300
65	53.0	86.4	10,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	183,900 *
20	82.2	116.3	178,400 *
22	81.1	116.0	161,800 *
24	80.1	115.7	137,400
26	79.0	115.3	117,400
28	78.0	114.8	101,500
30	76.9	114.4	88,600
32	75.8	113.8	77,900
34	74.7	113.3	68,900
36	73.6	112.7	61,200
38	72.5	112.0	54,600
40	71.4	111.4	48,800
45	68.7	109.5	37,200
50	65.8	107.3	28,300
55	62.9	104.8	21,400
60	59.9	102.0	15,800
65	56.8	98.8	11,200
120 Ft. BOOM			
20	82.9	126.4	167,300 *
22	81.9	126.2	158,500 *
24	80.9	125.8	138,500
26	79.9	125.5	118,400
28	79.0	125.1	102,500
30	78.0	124.6	89,500
32	77.0	124.2	78,800
34	76.0	123.6	69,800
36	75.0	123.1	62,100
38	74.0	122.5	55,400
40	73.0	121.9	49,600
45	70.5	120.2	37,900
50	68.0	118.2	29,000
55	65.3	116.0	22,100
60	62.7	113.5	16,500
65	59.9	110.6	11,900

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New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

110 Ft. Luffing Jib, attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	150,800 *
24	81.6	136.0	139,300
26	80.7	135.6	119,100
28	79.8	135.3	103,200
30	78.9	134.9	90,200
32	78.0	134.4	79,400
34	77.1	134.0	70,300
36	76.2	133.5	62,600
38	75.3	132.9	55,900
40	74.4	132.4	50,100
45	72.1	130.8	38,400
50	69.7	129.0	29,500
55	67.4	127.0	22,500
60	64.9	124.7	16,900
65	62.5	122.1	12,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	134,600 *
26	81.4	145.8	120,000
28	80.6	145.4	103,900
30	79.7	145.1	90,800
32	78.9	144.7	80,000
34	78.1	144.2	70,900
36	77.2	143.8	63,100
38	76.4	143.3	56,400
40	75.5	142.7	50,500
45	73.4	141.3	38,700
50	71.3	139.6	29,800
55	69.1	137.8	22,800
60	66.8	135.7	17,100
65	64.6	133.4	12,500



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New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

120 Ft. Luffing Jib, attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	263,600 *
15	81.8	76.6	244,200 *
16	81.0	76.5	227,100 *
17	80.2	76.3	211,800 *
18	79.3	76.1	198,100 *
19	78.5	75.9	185,700 *
20	77.7	75.6	174,500 *
22	76.0	75.1	151,700
24	74.3	74.5	126,500
26	72.6	73.9	107,100
28	70.8	73.2	91,700
30	69.1	72.4	79,200
32	67.3	71.5	68,800
34	65.5	70.6	60,100
36	63.6	69.6	52,700
38	61.8	68.5	46,300
40	59.9	67.3	40,700
45	54.9	64.0	29,500
50	49.7	59.9	20,900
55	43.9	55.0	14,300
80 Ft. BOOM			
15	82.9	86.8	242,200 *
16	82.1	86.6	228,400 *
17	81.4	86.4	213,100 *
18	80.7	86.3	199,400 *
19	80.0	86.1	187,100 *
20	79.2	85.9	175,900 *
22	77.8	85.4	154,800
24	76.3	84.9	129,300
26	74.8	84.4	109,700
28	73.3	83.8	94,200
30	71.8	83.1	81,600
32	70.3	82.3	71,200
34	68.7	81.6	62,400
36	67.2	80.7	54,900
38	65.6	79.8	48,400
40	64.0	78.8	42,800
45	59.9	76.0	31,400
50	55.6	72.7	22,800
55	51.1	68.8	16,000
60	46.2	64.2	10,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	224,700 *
17	82.4	96.6	213,800 *
18	81.7	96.4	200,200 *
19	81.1	96.2	187,900 *
20	80.4	96.1	176,700 *
22	79.1	95.7	156,600
24	77.8	95.2	131,000
26	76.5	94.7	111,400
28	75.2	94.2	95,800
30	73.9	93.6	83,200
32	72.5	93.0	72,700
34	71.2	92.3	63,900
36	69.8	91.5	56,400
38	68.5	90.7	49,900
40	67.1	89.9	44,200
45	63.6	87.5	32,800
50	59.9	84.7	24,200
55	56.1	81.4	17,400
60	52.1	77.7	11,900
100 Ft. BOOM			
18	82.6	106.5	191,100 *
19	82.0	106.4	185,400 *
20	81.4	106.2	177,400 *
22	80.2	105.9	157,900 *
24	79.1	105.5	132,800
26	77.9	105.0	113,000
28	76.7	104.5	97,300
30	75.5	104.0	84,600
32	74.4	103.4	74,100
34	73.2	102.8	65,200
36	71.9	102.2	57,600
38	70.7	101.5	51,100
40	69.5	100.7	45,400
45	66.4	98.6	33,900
50	63.2	96.1	25,200
55	59.9	93.3	18,400
60	56.5	90.1	12,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	181,800 *
20	82.2	116.3	176,200 *
22	81.1	116.0	158,000 *
24	80.1	115.7	133,300
26	79.0	115.3	113,600
28	78.0	114.8	97,900
30	76.9	114.4	85,200
32	75.8	113.8	74,700
34	74.7	113.3	65,800
36	73.6	112.7	58,200
38	72.5	112.0	51,700
40	71.4	111.4	46,000
45	68.7	109.5	34,500
50	65.8	107.3	25,800
55	62.9	104.8	19,000
60	59.9	102.0	13,500
120 Ft. BOOM			
20	82.9	126.4	165,300 *
22	81.9	126.2	156,500 *
24	80.9	125.8	134,500
26	79.9	125.5	114,700
28	79.0	125.1	99,000
30	78.0	124.6	86,200
32	77.0	124.2	75,600
34	76.0	123.6	66,700
36	75.0	123.1	59,100
38	74.0	122.5	52,600
40	73.0	121.9	46,900
45	70.5	120.2	35,300
50	68.0	118.2	26,600
55	65.3	116.0	19,700
60	62.7	113.5	14,200

Liftcrane Boom Capacities With Luffing Jib Attached

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ANSI B30.5
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777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

120 Ft. Luffing Jib, attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	149,000 *
24	81.6	136.0	135,400
26	80.7	135.6	115,500
28	79.8	135.3	99,700
30	78.9	134.9	86,900
32	78.0	134.4	76,300
34	77.1	134.0	67,400
36	76.2	133.5	59,800
38	75.3	132.9	53,200
40	74.4	132.4	47,500
45	72.1	130.8	35,900
50	69.7	129.0	27,100
55	67.4	127.0	20,200
60	64.9	124.7	14,700
65	62.5	122.1	10,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	114,400
26	81.4	145.8	95,500
28	80.6	145.4	80,500
30	79.7	145.1	68,400
32	78.9	144.7	58,300
34	78.1	144.2	49,800
36	77.2	143.8	42,600
38	76.4	143.3	36,400
40	75.5	142.7	30,900
45	73.4	141.3	20,000
50	71.3	139.6	11,700



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code
Boom No. 78, Luffing Jib No. 139
105,000 Lb. Counterweight
360 Degree Rating

130 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	270,200 *
15	81.8	76.6	250,300 *
16	81.0	76.5	232,600 *
17	80.2	76.3	216,800 *
18	79.3	76.1	202,700 *
19	78.5	75.9	189,900 *
20	77.7	75.6	178,300 *
22	76.0	75.1	156,300
24	74.3	74.5	130,100
26	72.6	73.9	110,000
28	70.8	73.2	94,000
30	69.1	72.4	81,000
32	67.3	71.5	70,300
34	65.5	70.6	61,200
36	63.6	69.6	53,500
38	61.8	68.5	46,800
40	59.9	67.3	41,000
45	54.9	64.0	29,200
50	49.7	59.9	20,300
55	43.9	55.0	13,300
80 Ft. BOOM			
15	82.9	86.8	245,500 *
16	82.1	86.6	234,100 *
17	81.4	86.4	218,400 *
18	80.7	86.3	204,300 *
19	80.0	86.1	191,600 *
20	79.2	85.9	180,000 *
22	77.8	85.4	159,700
24	76.3	84.9	133,300
26	74.8	84.4	113,000
28	73.3	83.8	96,800
30	71.8	83.1	83,800
32	70.3	82.3	72,900
34	68.7	81.6	63,800
36	67.2	80.7	56,000
38	65.6	79.8	49,300
40	64.0	78.8	43,400
45	59.9	76.0	31,600
50	55.6	72.7	22,600
55	51.1	68.8	15,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	227,700 *
17	82.4	96.6	219,300 *
18	81.7	96.4	205,200 *
19	81.1	96.2	192,500 *
20	80.4	96.1	181,000 *
22	79.1	95.7	161,000 *
24	77.8	95.2	135,300
26	76.5	94.7	114,900
28	75.2	94.2	98,700
30	73.9	93.6	85,600
32	72.5	93.0	74,700
34	71.2	92.3	65,600
36	69.8	91.5	57,800
38	68.5	90.7	51,000
40	67.1	89.9	45,100
45	63.6	87.5	33,300
50	59.9	84.7	24,300
55	56.1	81.4	17,200
60	52.1	77.7	11,500
100 Ft. BOOM			
18	82.6	106.5	193,700 *
19	82.0	106.4	188,000 *
20	81.4	106.2	181,800 *
22	80.2	105.9	161,800 *
24	79.1	105.5	137,300
26	77.9	105.0	116,700
28	76.7	104.5	100,500
30	75.5	104.0	87,300
32	74.4	103.4	76,300
34	73.2	102.8	67,100
36	71.9	102.2	59,300
38	70.7	101.5	52,500
40	69.5	100.7	46,500
45	66.4	98.6	34,600
50	63.2	96.1	25,500
55	59.9	93.3	18,400
60	56.5	90.1	12,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	184,200 *
20	82.2	116.3	178,500 *
22	81.1	116.0	162,000 *
24	80.1	115.7	138,000
26	79.0	115.3	117,500
28	78.0	114.8	101,200
30	76.9	114.4	88,000
32	75.8	113.8	77,100
34	74.7	113.3	67,900
36	73.6	112.7	60,000
38	72.5	112.0	53,200
40	71.4	111.4	47,300
45	68.7	109.5	35,400
50	65.8	107.3	26,300
55	62.9	104.8	19,200
60	59.9	102.0	13,500
120 Ft. BOOM			
20	82.9	126.4	167,400 *
22	81.9	126.2	158,500 *
24	80.9	125.8	139,300
26	79.9	125.5	118,700
28	79.0	125.1	102,400
30	78.0	124.6	89,200
32	77.0	124.2	78,200
34	76.0	123.6	69,000
36	75.0	123.1	61,100
38	74.0	122.5	54,300
40	73.0	121.9	48,300
45	70.5	120.2	36,300
50	68.0	118.2	27,300
55	65.3	116.0	20,100
60	62.7	113.5	14,400

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

130 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	144,900
24	81.6	136.0	119,300
26	80.7	135.6	99,700
28	79.8	135.3	84,100
30	78.9	134.9	71,500
32	78.0	134.4	61,000
34	77.1	134.0	52,100
36	76.2	133.5	44,600
38	75.3	132.9	38,100
40	74.4	132.4	32,400
45	72.1	130.8	21,000
50	69.7	129.0	12,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	120,500
26	81.4	145.8	100,700
28	80.6	145.4	85,100
30	79.7	145.1	72,300
32	78.9	144.7	61,800
34	78.1	144.2	52,900
36	77.2	143.8	45,300
38	76.4	143.3	38,800
40	75.5	142.7	33,100
45	73.4	141.3	21,600
50	71.3	139.6	12,800



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

140 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	266,100 *
15	81.8	76.6	246,200 *
16	81.0	76.5	228,600 *
17	80.2	76.3	212,800 *
18	79.3	76.1	198,700 *
19	78.5	75.9	186,000 *
20	77.7	75.6	174,500 *
22	76.0	75.1	151,800
24	74.3	74.5	125,900
26	72.6	73.9	106,000
28	70.8	73.2	90,200
30	69.1	72.4	77,300
32	67.3	71.5	66,700
34	65.5	70.6	57,700
36	63.6	69.6	50,100
38	61.8	68.5	43,500
40	59.9	67.3	37,800
45	54.9	64.0	26,100
50	49.7	59.9	17,300
55	43.9	55.0	10,400
80 Ft. BOOM			
15	82.9	86.8	243,300 *
16	82.1	86.6	230,300 *
17	81.4	86.4	214,600 *
18	80.7	86.3	200,500 *
19	80.0	86.1	187,900 *
20	79.2	85.9	176,300 *
22	77.8	85.4	155,500
24	76.3	84.9	129,300
26	74.8	84.4	109,200
28	73.3	83.8	93,300
30	71.8	83.1	80,300
32	70.3	82.3	69,600
34	68.7	81.6	60,600
36	67.2	80.7	52,900
38	65.6	79.8	46,200
40	64.0	78.8	40,400
45	59.9	76.0	28,700
50	55.6	72.7	19,800
55	51.1	68.8	12,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	225,600 *
17	82.4	96.6	215,600 *
18	81.7	96.4	201,600 *
19	81.1	96.2	189,000 *
20	80.4	96.1	177,500 *
22	79.1	95.7	157,500 *
24	77.8	95.2	131,500
26	76.5	94.7	111,300
28	75.2	94.2	95,300
30	73.9	93.6	82,300
32	72.5	93.0	71,600
34	71.2	92.3	62,500
36	69.8	91.5	54,800
38	68.5	90.7	48,100
40	67.1	89.9	42,300
45	63.6	87.5	30,600
50	59.9	84.7	21,600
55	56.1	81.4	14,700
100 Ft. BOOM			
18	82.6	106.5	191,800 *
19	82.0	106.4	186,000 *
20	81.4	106.2	178,400 *
22	80.2	105.9	158,500 *
24	79.1	105.5	133,700
26	77.9	105.0	113,300
28	76.7	104.5	97,200
30	75.5	104.0	84,200
32	74.4	103.4	73,300
34	73.2	102.8	64,200
36	71.9	102.2	56,400
38	70.7	101.5	49,700
40	69.5	100.7	43,800
45	66.4	98.6	32,000
50	63.2	96.1	23,000
55	59.9	93.3	16,000
60	56.5	90.1	10,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	182,400 *
20	82.2	116.3	176,700 *
22	81.1	116.0	158,800 *
24	80.1	115.7	134,500
26	79.0	115.3	114,200
28	78.0	114.8	98,100
30	76.9	114.4	85,000
32	75.8	113.8	74,200
34	74.7	113.3	65,100
36	73.6	112.7	57,300
38	72.5	112.0	50,600
40	71.4	111.4	44,700
45	68.7	109.5	32,900
50	65.8	107.3	24,000
55	62.9	104.8	16,900
60	59.9	102.0	11,300
120 Ft. BOOM			
20	82.9	126.4	165,700 *
22	81.9	126.2	139,200
24	80.9	125.8	114,000
26	79.9	125.5	94,600
28	79.0	125.1	79,300
30	78.0	124.6	66,800
32	77.0	124.2	56,500
34	76.0	123.6	47,800
36	75.0	123.1	40,400
38	74.0	122.5	34,000
40	73.0	121.9	28,400
45	70.5	120.2	17,100

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

140 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	140,500
24	81.6	136.0	115,200
26	80.7	135.6	95,800
28	79.8	135.3	80,400
30	78.9	134.9	67,900
32	78.0	134.4	57,500
34	77.1	134.0	48,800
36	76.2	133.5	41,400
38	75.3	132.9	34,900
40	74.4	132.4	29,300
45	72.1	130.8	18,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	116,500
26	81.4	145.8	97,000
28	80.6	145.4	81,500
30	79.7	145.1	68,900
32	78.9	144.7	58,400
34	78.1	144.2	49,700
36	77.2	143.8	42,200
38	76.4	143.3	35,700
40	75.5	142.7	30,000
45	73.4	141.3	18,700
50	71.3	139.6	10,000



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

150 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	263,000 *
15	81.8	76.6	243,200 *
16	81.0	76.5	225,600 *
17	80.2	76.3	210,000 *
18	79.3	76.1	195,900 *
19	78.5	75.9	183,200 *
20	77.7	75.6	171,700 *
22	76.0	75.1	148,400
24	74.3	74.5	122,700
26	72.6	73.9	103,000
28	70.8	73.2	87,300
30	69.1	72.4	74,600
32	67.3	71.5	64,100
34	65.5	70.6	55,300
36	63.6	69.6	47,700
38	61.8	68.5	41,200
40	59.9	67.3	35,500
45	54.9	64.0	24,000
50	49.7	59.9	15,300
80 Ft. BOOM			
15	82.9	86.8	241,700 *
16	82.1	86.6	227,500 *
17	81.4	86.4	211,900 *
18	80.7	86.3	197,800 *
19	80.0	86.1	185,200 *
20	79.2	85.9	173,700 *
22	77.8	85.4	152,200
24	76.3	84.9	126,300
26	74.8	84.4	106,400
28	73.3	83.8	90,600
30	71.8	83.1	77,800
32	70.3	82.3	67,200
34	68.7	81.6	58,300
36	67.2	80.7	50,600
38	65.6	79.8	44,100
40	64.0	78.8	38,300
45	59.9	76.0	26,700
50	55.6	72.7	17,900
55	51.1	68.8	11,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	224,100 *
17	82.4	96.6	213,000 *
18	81.7	96.4	199,000 *
19	81.1	96.2	186,500 *
20	80.4	96.1	175,000 *
22	79.1	95.7	154,700
24	77.8	95.2	128,700
26	76.5	94.7	108,700
28	75.2	94.2	92,800
30	73.9	93.6	80,000
32	72.5	93.0	69,300
34	71.2	92.3	60,400
36	69.8	91.5	52,700
38	68.5	90.7	46,100
40	67.1	89.9	40,300
45	63.6	87.5	28,700
50	59.9	84.7	19,900
55	56.1	81.4	13,000
100 Ft. BOOM			
18	82.6	106.5	190,400 *
19	82.0	106.4	184,600 *
20	81.4	106.2	176,000 *
22	80.2	105.9	156,200 *
24	79.1	105.5	131,000
26	77.9	105.0	110,800
28	76.7	104.5	94,900
30	75.5	104.0	81,900
32	74.4	103.4	71,200
34	73.2	102.8	62,200
36	71.9	102.2	54,500
38	70.7	101.5	47,800
40	69.5	100.7	42,000
45	66.4	98.6	30,300
50	63.2	96.1	21,400
55	59.9	93.3	14,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	181,100 *
20	82.2	116.3	167,600
22	81.1	116.0	134,000
24	80.1	115.7	109,100
26	79.0	115.3	90,000
28	78.0	114.8	74,900
30	76.9	114.4	62,600
32	75.8	113.8	52,500
34	74.7	113.3	43,900
36	73.6	112.7	36,600
38	72.5	112.0	30,300
40	71.4	111.4	24,800
45	68.7	109.5	13,700
120 Ft. BOOM			
20	82.9	126.4	164,500 *
22	81.9	126.2	135,800
24	80.9	125.8	110,900
26	79.9	125.5	91,700
28	79.0	125.1	76,500
30	78.0	124.6	64,200
32	77.0	124.2	54,000
34	76.0	123.6	45,400
36	75.0	123.1	38,100
38	74.0	122.5	31,700
40	73.0	121.9	26,200
45	70.5	120.2	15,100

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

150 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
22	82.5	136.3	137,200
24	81.6	136.0	112,200
26	80.7	135.6	93,000
28	79.8	135.3	77,700
30	78.9	134.9	65,400
32	78.0	134.4	55,100
34	77.1	134.0	46,500
36	76.2	133.5	39,100
38	75.3	132.9	32,800
40	74.4	132.4	27,200
45	72.1	130.8	16,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
24	82.2	146.1	113,600
26	81.4	145.8	94,200
28	80.6	145.4	78,900
30	79.7	145.1	66,400
32	78.9	144.7	56,100
34	78.1	144.2	47,400
36	77.2	143.8	40,000
38	76.4	143.3	33,600
40	75.5	142.7	28,000
45	73.4	141.3	16,800



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code
Boom No. 78, Luffing Jib No. 139
105,000 Lb. Counterweight
360 Degree Rating

160 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	258,700 *
15	81.8	76.6	238,900 *
16	81.0	76.5	221,400 *
17	80.2	76.3	205,800 *
18	79.3	76.1	191,800 *
19	78.5	75.9	179,100 *
20	77.7	75.6	167,700 *
22	76.0	75.1	143,600
24	74.3	74.5	118,200
26	72.6	73.9	98,700
28	70.8	73.2	83,300
30	69.1	72.4	70,800
32	67.3	71.5	60,400
34	65.5	70.6	51,600
36	63.6	69.6	44,100
38	61.8	68.5	37,700
40	59.9	67.3	32,100
45	54.9	64.0	20,700
50	49.7	59.9	12,200
80 Ft. BOOM			
15	82.9	86.8	239,300 *
16	82.1	86.6	223,400 *
17	81.4	86.4	207,900 *
18	80.7	86.3	193,900 *
19	80.0	86.1	181,300 *
20	79.2	85.9	169,900 *
22	77.8	85.4	147,700
24	76.3	84.9	122,100
26	74.8	84.4	102,500
28	73.3	83.8	86,900
30	71.8	83.1	74,200
32	70.3	82.3	63,700
34	68.7	81.6	54,900
36	67.2	80.7	47,300
38	65.6	79.8	40,800
40	64.0	78.8	35,100
45	59.9	76.0	23,700
50	55.6	72.7	15,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	221,900 *
17	82.4	96.6	209,200 *
18	81.7	96.4	195,300 *
19	81.1	96.2	182,700 *
20	80.4	96.1	171,300 *
22	79.1	95.7	150,400
24	77.8	95.2	124,700
26	76.5	94.7	104,900
28	75.2	94.2	89,300
30	73.9	93.6	76,600
32	72.5	93.0	66,000
34	71.2	92.3	57,200
36	69.8	91.5	49,600
38	68.5	90.7	43,100
40	67.1	89.9	37,400
45	63.6	87.5	25,900
50	59.9	84.7	17,200
55	56.1	81.4	10,300
100 Ft. BOOM			
18	82.6	106.5	188,300 *
19	82.0	106.4	182,500 *
20	81.4	106.2	161,000
22	80.2	105.9	127,700
24	79.1	105.5	103,200
26	77.9	105.0	84,300
28	76.7	104.5	69,400
30	75.5	104.0	57,300
32	74.4	103.4	47,200
34	73.2	102.8	38,800
36	71.9	102.2	31,600
38	70.7	101.5	25,300
40	69.5	100.7	19,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
19	82.7	116.5	179,100 *
20	82.2	116.3	162,300
22	81.1	116.0	129,100
24	80.1	115.7	104,500
26	79.0	115.3	85,700
28	78.0	114.8	70,800
30	76.9	114.4	58,600
32	75.8	113.8	48,600
34	74.7	113.3	40,200
36	73.6	112.7	32,900
38	72.5	112.0	26,700
40	71.4	111.4	21,300
45	68.7	109.5	10,400
120 Ft. BOOM			
20	82.9	126.4	162,700 *
22	81.9	126.2	131,100
24	80.9	125.8	106,400
26	79.9	125.5	87,500
28	79.0	125.1	72,500
30	78.0	124.6	60,300
32	77.0	124.2	50,300
34	76.0	123.6	41,800
36	75.0	123.1	34,500
38	74.0	122.5	28,300
40	73.0	121.9	22,800
45	70.5	120.2	11,900
130 Ft. BOOM			
22	82.5	136.3	132,600
24	81.6	136.0	107,900
26	80.7	135.6	88,900
28	79.8	135.3	73,800
30	78.9	134.9	61,600
32	78.0	134.4	51,500
34	77.1	134.0	43,000
36	76.2	133.5	35,700
38	75.3	132.9	29,400
40	74.4	132.4	24,000
45	72.1	130.8	12,900



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 1

New York City Code

Boom No. 78, Luffing Jib No. 139

105,000 Lb. Counterweight

360 Degree Rating

170 Ft. Luffing Jib, attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
14	82.7	76.8	254,600 *
15	81.8	76.6	234,900 *
16	81.0	76.5	217,400 *
17	80.2	76.3	201,900 *
18	79.3	76.1	187,900 *
19	78.5	75.9	175,300 *
20	77.7	75.6	163,900 *
22	76.0	75.1	139,000
24	74.3	74.5	114,000
26	72.6	73.9	94,800
28	70.8	73.2	79,500
30	69.1	72.4	67,100
32	67.3	71.5	56,900
34	65.5	70.6	48,200
36	63.6	69.6	40,900
38	61.8	68.5	34,500
40	59.9	67.3	28,900
45	54.9	64.0	17,800
80 Ft. BOOM			
15	82.9	86.8	237,000 *
16	82.1	86.6	219,600 *
17	81.4	86.4	204,100 *
18	80.7	86.3	190,200 *
19	80.0	86.1	177,700 *
20	79.2	85.9	166,300 *
22	77.8	85.4	143,500
24	76.3	84.9	118,200
26	74.8	84.4	98,700
28	73.3	83.8	83,300
30	71.8	83.1	70,800
32	70.3	82.3	60,400
34	68.7	81.6	51,700
36	67.2	80.7	44,300
38	65.6	79.8	37,800
40	64.0	78.8	32,200
45	59.9	76.0	20,900
50	55.6	72.7	12,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
16	83.0	96.7	220,200 *
17	82.4	96.6	205,600 *
18	81.7	96.4	191,700 *
19	81.1	96.2	173,200
20	80.4	96.1	152,200
22	79.1	95.7	119,700
24	77.8	95.2	95,700
26	76.5	94.7	77,200
28	75.2	94.2	62,600
30	73.9	93.6	50,700
32	72.5	93.0	40,900
34	71.2	92.3	32,700
36	69.8	91.5	25,600
38	68.5	90.7	19,500
40	67.1	89.9	14,200
100 Ft. BOOM			
18	82.6	106.5	186,700 *
19	82.0	106.4	176,900
20	81.4	106.2	155,700
22	80.2	105.9	122,900
24	79.1	105.5	98,700
26	77.9	105.0	80,100
28	76.7	104.5	65,400
30	75.5	104.0	53,400
32	74.4	103.4	43,500
34	73.2	102.8	35,200
36	71.9	102.2	28,100
38	70.7	101.5	21,900
40	69.5	100.7	16,600
110 Ft. BOOM			
19	82.7	116.5	177,600 *
20	82.2	116.3	157,200
22	81.1	116.0	124,400
24	80.1	115.7	100,200
26	79.0	115.3	81,600
28	78.0	114.8	66,900
30	76.9	114.4	54,900
32	75.8	113.8	45,000
34	74.7	113.3	36,700
36	73.6	112.7	29,600
38	72.5	112.0	23,500
40	71.4	111.4	18,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
20	82.9	126.4	159,500
22	81.9	126.2	126,600
24	80.9	125.8	102,300
26	79.9	125.5	83,600
28	79.0	125.1	68,800
30	78.0	124.6	56,800
32	77.0	124.2	46,800
34	76.0	123.6	38,500
36	75.0	123.1	31,300
38	74.0	122.5	25,200
40	73.0	121.9	19,800
130 Ft. BOOM			
22	82.5	136.3	128,200
24	81.6	136.0	103,800
26	80.7	135.6	85,100
28	79.8	135.3	70,200
30	78.9	134.9	58,200
32	78.0	134.4	48,200
34	77.1	134.0	39,800
36	76.2	133.5	32,600
38	75.3	132.9	26,400
40	74.4	132.4	21,000
45	72.1	130.8	10,100