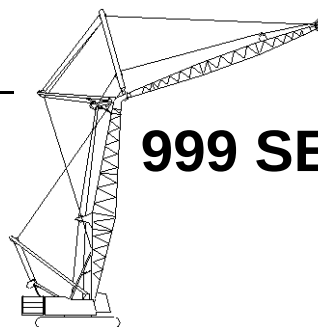




Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 1

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. and 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 with gantry up. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. 196199** (Boom No. 22EL) or **No. 196200** (Boom No. 82), Wire Rope Specification chart **No. 8250-A** and Luffing Jib Raising Procedure chart **No. 8248-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.

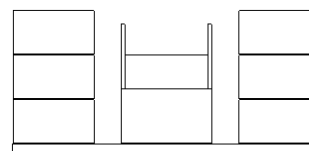
MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8249-A**.

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, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays and 149,600 Lb. counterweight.

Luffing Jib Position During Operation	
Luffing Jib Length - Feet	Boom To Luffing Jib Angle
70	140 Degrees
80 - 90	150 Degrees
100 - 120	160 Degrees
130 - 170	168 Degrees



149,600 Lb. Crane Counterweight
6 Side Boxes - 1 Center Box

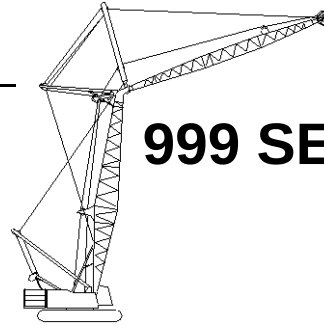
Consult Chart **No. 8270-A** for luffing jib capacities.



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



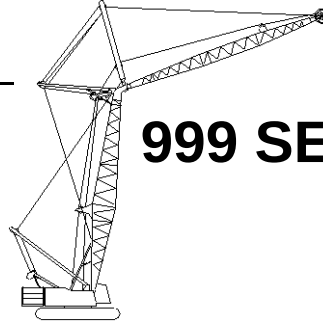
999 SERIES 1

70 Ft. Luffing Jib, Attached At 140 Degree Boom To Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	368,400 *
17	82.0	77.1	346,300 *
18	81.1	76.9	326,500 *
19	80.3	76.7	308,600 *
20	79.5	76.5	292,300 *
22	77.8	76.0	263,900 *
24	76.1	75.5	239,800 *
26	74.4	74.9	211,800
28	72.7	74.2	184,300
30	70.9	73.5	162,300
80 Ft. BOOM			
17	83.0	87.2	346,000 *
18	82.3	87.0	326,200 *
19	81.5	86.9	308,300 *
20	80.8	86.7	292,000 *
22	79.3	86.3	263,600 *
24	77.9	85.8	239,500 *
26	76.4	85.3	213,100
28	74.9	84.7	185,400
30	73.4	84.1	163,300
32	71.9	83.4	145,300
34	70.4	82.7	130,200
90 Ft. BOOM			
19	82.5	97.0	308,200 *
20	81.8	96.8	291,900 *
22	80.5	96.5	263,500 *
24	79.2	96.1	239,400 *
26	77.9	95.6	214,200
28	76.6	95.1	186,500
30	75.3	94.6	164,300
32	74.0	94.0	146,100
34	72.6	93.3	131,000
36	71.3	92.6	118,200
100 Ft. BOOM			
20	82.7	107.0	291,900 *
22	81.5	106.6	263,500 *
24	80.3	106.3	239,500 *
26	79.2	105.9	215,000
28	78.0	105.4	187,200
30	76.8	104.9	164,900
32	75.6	104.4	146,700
34	74.4	103.8	131,600
36	73.2	103.2	118,700
38	72.0	102.5	107,700
40	70.8	101.8	98,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	263,200 *
24	81.2	116.4	239,200 *
26	80.2	116.1	215,800
28	79.1	115.7	187,800
30	78.0	115.2	165,500
32	77.0	114.7	147,200
34	75.9	114.2	132,000
36	74.8	113.6	119,100
38	73.7	113.0	108,100
40	72.6	112.4	98,500
42	71.5	111.7	90,100
44	70.4	110.9	82,700
120 Ft. BOOM			
22	82.9	126.9	262,900 *
24	82.0	126.6	238,900 *
26	81.0	126.2	216,200
28	80.0	125.9	188,300
30	79.1	125.5	165,900
32	78.1	125.0	147,600
34	77.1	124.5	132,300
36	76.1	124.0	119,400
38	75.1	123.5	108,300
40	74.1	122.9	98,700
42	73.1	122.2	90,300
44	72.1	121.6	82,900
46	71.1	120.9	76,300
48	70.1	120.1	70,400
130 Ft. BOOM			
24	82.6	136.7	238,800 *
26	81.7	136.4	216,800
28	80.8	136.0	188,700
30	79.9	135.7	166,300
32	79.0	135.3	148,000
34	78.1	134.8	132,700
36	77.2	134.3	119,700
38	76.3	133.8	108,600
40	75.4	133.3	99,000
42	74.5	132.7	90,600
44	73.5	132.1	83,200
46	72.6	131.5	76,600
48	71.7	130.8	70,700
50	70.7	130.1	65,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
26	82.3	146.5	217,100
28	81.5	146.2	189,000
30	80.6	145.8	166,500
32	79.8	145.5	148,100
34	79.0	145.1	132,800
36	78.1	144.6	119,900
38	77.3	144.1	108,800
40	76.4	143.6	99,100
42	75.6	143.1	90,700
44	74.7	142.5	83,300
46	73.9	141.9	76,700
48	73.0	141.3	70,800
50	72.2	140.7	65,400
150 Ft. BOOM			
26	82.8	156.6	199,100 *
28	82.0	156.3	189,400
30	81.3	156.0	166,800
32	80.5	155.6	148,400
34	79.7	155.3	133,000
36	78.9	154.8	120,000
38	78.2	154.4	108,800
40	77.4	153.9	99,200
42	76.6	153.5	90,700
44	75.8	152.9	83,200
46	75.0	152.4	76,600
48	74.2	151.8	70,700
50	73.4	151.2	65,300
55	71.4	149.5	54,100
160 Ft. BOOM			
28	82.5	166.4	184,800 *
30	81.8	166.1	166,900
32	81.1	165.8	148,400
34	80.4	165.4	133,000
36	79.6	165.1	120,000
38	78.9	164.6	108,800
40	78.2	164.2	99,100
42	77.4	163.7	90,600
44	76.7	163.3	83,200
46	76.0	162.7	76,500
48	75.2	162.2	70,600
50	74.5	161.6	65,200
55	72.6	160.1	53,900
60	70.7	158.3	44,900



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

80 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
70 Ft. BOOM			
16	82.8	77.2	368,600 *
17	82.0	77.1	346,400 *
18	81.1	76.9	326,400 *
19	80.3	76.7	308,300 *
20	79.5	76.5	291,900 *
22	77.8	76.0	263,300 *
24	76.1	75.5	239,000 *
26	74.4	74.9	210,900
28	72.7	74.2	183,300
30	70.9	73.5	161,200
32	69.2	72.7	143,100
34	67.4	71.8	128,000
36	65.6	70.9	115,200
80 Ft. BOOM			
17	83.0	87.2	346,100 *
18	82.3	87.0	326,200 *
19	81.5	86.9	308,200 *
20	80.8	86.7	291,800 *
22	79.3	86.3	263,100 *
24	77.9	85.8	238,900 *
26	76.4	85.3	212,500
28	74.9	84.7	184,700
30	73.4	84.1	162,500
32	71.9	83.4	144,300
34	70.4	82.7	129,100
36	68.8	81.9	116,300
38	67.3	81.0	105,300
40	65.7	80.0	95,700
42	64.1	79.0	87,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	308,200 *
20	81.8	96.8	291,800 *
22	80.5	96.5	263,200 *
24	79.2	96.1	239,000 *
26	77.9	95.6	213,800
28	76.6	95.1	185,900
30	75.3	94.6	163,600
32	74.0	94.0	145,300
34	72.6	93.3	130,100
36	71.3	92.6	117,200
38	69.9	91.8	106,100
40	68.6	91.0	96,500
42	67.2	90.1	88,200
44	65.8	89.2	80,800
46	64.3	88.2	74,200
100 Ft. BOOM			
20	82.7	107.0	291,900 *
22	81.5	106.6	263,300 *
24	80.3	106.3	239,100 *
26	79.2	105.9	214,800
28	78.0	105.4	186,800
30	76.8	104.9	164,400
32	75.6	104.4	146,100
34	74.4	103.8	130,800
36	73.2	103.2	117,900
38	72.0	102.5	106,800
40	70.8	101.8	97,200
42	69.6	101.0	88,800
44	68.3	100.2	81,400
46	67.1	99.3	74,800
48	65.8	98.4	68,900
50	64.6	97.4	63,600

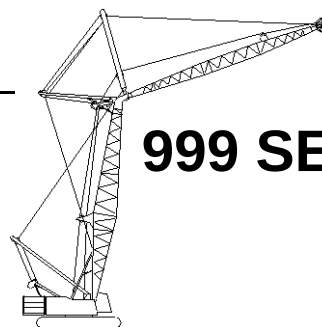
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	263,000 *
24	81.2	116.4	238,900 *
26	80.2	116.1	215,700
28	79.1	115.7	187,600
30	78.0	115.2	165,100
32	77.0	114.7	146,700
34	75.9	114.2	131,400
36	74.8	113.6	118,400
38	73.7	113.0	107,300
40	72.6	112.4	97,600
42	71.5	111.7	89,200
44	70.4	110.9	81,800
46	69.3	110.2	75,200
48	68.2	109.3	69,200
50	67.0	108.5	63,900
55	64.1	106.1	52,600
120 Ft. BOOM			
22	82.9	126.9	262,900 *
24	82.0	126.6	238,700 *
26	81.0	126.2	216,300
28	80.0	125.9	188,100
30	79.1	125.5	165,600
32	78.1	125.0	147,100
34	77.1	124.5	131,800
36	76.1	124.0	118,800
38	75.1	123.5	107,600
40	74.1	122.9	98,000
42	73.1	122.2	89,500
44	72.1	121.6	82,100
46	71.1	120.9	75,400
48	70.1	120.1	69,500
50	69.1	119.3	64,200
55	66.5	117.2	52,900



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

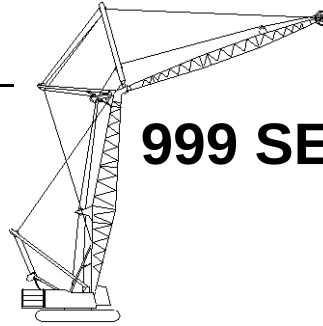


999 SERIES 1

80 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			
24	82.6	136.7	238,700 *
26	81.7	136.4	216,900
28	80.8	136.0	188,700
30	79.9	135.7	166,100
32	79.0	135.3	147,600
34	78.1	134.8	132,200
36	77.2	134.3	119,200
38	76.3	133.8	108,000
40	75.4	133.3	98,400
42	74.5	132.7	89,900
44	73.5	132.1	82,400
46	72.6	131.5	75,800
48	71.7	130.8	69,800
50	70.7	130.1	64,500
55	68.4	128.1	53,200
60	66.0	125.9	44,100
140 Ft. BOOM			
26	82.3	146.5	217,200
28	81.5	146.2	189,000
30	80.6	145.8	166,400
32	79.8	145.5	147,900
34	79.0	145.1	132,500
36	78.1	144.6	119,400
38	77.3	144.1	108,200
40	76.4	143.6	98,500
42	75.6	143.1	90,100
44	74.7	142.5	82,600
46	73.9	141.9	75,900
48	73.0	141.3	70,000
50	72.2	140.7	64,600
55	70.0	138.9	53,300
60	67.8	136.8	44,200
65	65.5	134.6	36,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	201,500 *
28	82.0	156.3	189,400
30	81.3	156.0	166,700
32	80.5	155.6	148,200
34	79.7	155.3	132,700
36	78.9	154.8	119,600
38	78.2	154.4	108,400
40	77.4	153.9	98,600
42	76.6	153.5	90,100
44	75.8	152.9	82,600
46	75.0	152.4	75,900
48	74.2	151.8	70,000
50	73.4	151.2	64,600
55	71.4	149.5	53,200
60	69.4	147.6	44,100
65	67.3	145.6	36,700
70	65.2	143.3	30,500
160 Ft. BOOM			
28	82.5	166.4	187,300 *
30	81.8	166.1	166,900
32	81.1	165.8	148,300
34	80.4	165.4	132,800
36	79.6	165.1	119,600
38	78.9	164.6	108,400
40	78.2	164.2	98,600
42	77.4	163.7	90,100
44	76.7	163.3	82,600
46	76.0	162.7	75,900
48	75.2	162.2	69,900
50	74.5	161.6	64,500
55	72.6	160.1	53,100
60	70.7	158.3	44,000
65	68.8	156.4	36,600
70	66.8	154.3	30,400
75	64.9	152.0	25,100



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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
70 Ft. BOOM			
16	82.8	77.2	364,200 *
17	82.0	77.1	342,100 *
18	81.1	76.9	322,300 *
19	80.3	76.7	304,300 *
20	79.5	76.5	288,000 *
22	77.8	76.0	259,500 *
24	76.1	75.5	235,400 *
26	74.4	74.9	206,700
28	72.7	74.2	179,400
30	70.9	73.5	157,600
32	69.2	72.7	139,700
34	67.4	71.8	124,800
36	65.6	70.9	112,200
80 Ft. BOOM			
17	83.0	87.2	342,000 *
18	82.3	87.0	322,200 *
19	81.5	86.9	304,200 *
20	80.8	86.7	288,000 *
22	79.3	86.3	259,500 *
24	77.9	85.8	235,400 *
26	76.4	85.3	208,400
28	74.9	84.7	180,900
30	73.4	84.1	159,000
32	71.9	83.4	141,000
34	70.4	82.7	126,000
36	68.8	81.9	113,300
38	67.3	81.0	102,400
40	65.7	80.0	93,000
42	64.1	79.0	84,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	304,300 *
20	81.8	96.8	288,000 *
22	80.5	96.5	259,600 *
24	79.2	96.1	235,500 *
26	77.9	95.6	209,900
28	76.6	95.1	182,300
30	75.3	94.6	160,200
32	74.0	94.0	142,100
34	72.6	93.3	127,000
36	71.3	92.6	114,300
38	69.9	91.8	103,400
40	68.6	91.0	93,900
42	67.2	90.1	85,600
44	65.8	89.2	78,300
46	64.3	88.2	71,800
100 Ft. BOOM			
20	82.7	107.0	288,200 *
22	81.5	106.6	259,800 *
24	80.3	106.3	235,800 *
26	79.2	105.9	210,900
28	78.0	105.4	183,200
30	76.8	104.9	161,100
32	75.6	104.4	143,000
34	74.4	103.8	127,900
36	73.2	103.2	115,100
38	72.0	102.5	104,200
40	70.8	101.8	94,700
42	69.6	101.0	86,400
44	68.3	100.2	79,000
46	67.1	99.3	72,500
48	65.8	98.4	66,700
50	64.6	97.4	61,500

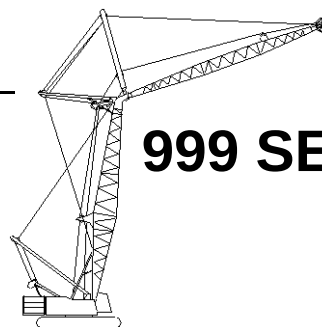
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	259,600 *
24	81.2	116.4	235,600 *
26	80.2	116.1	211,900
28	79.1	115.7	184,100
30	78.0	115.2	161,800
32	77.0	114.7	143,700
34	75.9	114.2	128,500
36	74.8	113.6	115,700
38	73.7	113.0	104,700
40	72.6	112.4	95,100
42	71.5	111.7	86,800
44	70.4	110.9	79,400
46	69.3	110.2	72,900
48	68.2	109.3	67,000
50	67.0	108.5	61,800
55	64.1	106.1	50,700
120 Ft. BOOM			
22	82.9	126.9	259,400 *
24	82.0	126.6	235,500 *
26	81.0	126.2	212,500
28	80.0	125.9	184,700
30	79.1	125.5	162,400
32	78.1	125.0	144,100
34	77.1	124.5	128,900
36	76.1	124.0	116,100
38	75.1	123.5	105,100
40	74.1	122.9	95,500
42	73.1	122.2	87,200
44	72.1	121.6	79,800
46	71.1	120.9	73,200
48	70.1	120.1	67,400
50	69.1	119.3	62,100
55	66.5	117.2	50,900



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

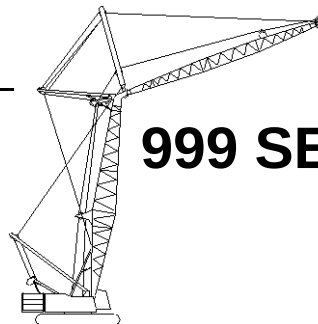


999 SERIES 1

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			
24	82.6	136.7	235,500 *
26	81.7	136.4	213,200
28	80.8	136.0	185,300
30	79.9	135.7	162,900
32	79.0	135.3	144,700
34	78.1	134.8	129,400
36	77.2	134.3	116,600
38	76.3	133.8	105,500
40	75.4	133.3	95,900
42	74.5	132.7	87,600
44	73.5	132.1	80,200
46	72.6	131.5	73,600
48	71.7	130.8	67,700
50	70.7	130.1	62,400
55	68.4	128.1	51,300
60	66.0	125.9	42,300
140 Ft. BOOM			
26	82.3	146.5	213,600
28	81.5	146.2	185,600
30	80.6	145.8	163,300
32	79.8	145.5	145,000
34	79.0	145.1	129,700
36	78.1	144.6	116,800
38	77.3	144.1	105,800
40	76.4	143.6	96,200
42	75.6	143.1	87,800
44	74.7	142.5	80,400
46	73.9	141.9	73,800
48	73.0	141.3	67,900
50	72.2	140.7	62,600
55	70.0	138.9	51,400
60	67.8	136.8	42,500
65	65.5	134.6	35,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	198,300 *
28	82.0	156.3	186,100
30	81.3	156.0	163,700
32	80.5	155.6	145,300
34	79.7	155.3	130,000
36	78.9	154.8	117,000
38	78.2	154.4	105,900
40	77.4	153.9	96,300
42	76.6	153.5	87,900
44	75.8	152.9	80,400
46	75.0	152.4	73,800
48	74.2	151.8	67,900
50	73.4	151.2	62,600
55	71.4	149.5	51,400
60	69.4	147.6	42,400
65	67.3	145.6	35,000
70	65.2	143.3	28,900
160 Ft. BOOM			
28	82.5	166.4	184,000 *
30	81.8	166.1	163,800
32	81.1	165.8	145,400
34	80.4	165.4	130,100
36	79.6	165.1	117,100
38	78.9	164.6	106,000
40	78.2	164.2	96,300
42	77.4	163.7	87,900
44	76.7	163.3	80,400
46	76.0	162.7	73,800
48	75.2	162.2	67,900
50	74.5	161.6	62,600
55	72.6	160.1	51,300
60	70.7	158.3	42,300
65	68.8	156.4	34,900
70	66.8	154.3	28,800
75	64.9	152.0	23,600



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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			
16	82.8	77.2	367,400 *
17	82.0	77.1	345,000 *
18	81.1	76.9	324,800 *
19	80.3	76.7	306,600 *
20	79.5	76.5	290,000 *
22	77.8	76.0	261,000 *
24	76.1	75.5	236,500 *
26	74.4	74.9	208,200
28	72.7	74.2	180,400
30	70.9	73.5	158,200
32	69.2	72.7	140,000
34	67.4	71.8	124,800
36	65.6	70.9	111,900
38	63.7	69.8	100,900
40	61.9	68.7	91,400
42	60.0	67.5	83,000
44	58.0	66.2	75,700
80 Ft. BOOM			
17	83.0	87.2	345,000 *
18	82.3	87.0	324,900 *
19	81.5	86.9	306,700 *
20	80.8	86.7	290,100 *
22	79.3	86.3	261,200 *
24	77.9	85.8	236,700 *
26	76.4	85.3	210,200
28	74.9	84.7	182,200
30	73.4	84.1	159,900
32	71.9	83.4	141,600
34	70.4	82.7	126,300
36	68.8	81.9	113,400
38	67.3	81.0	102,400
40	65.7	80.0	92,800
42	64.1	79.0	84,400
44	62.4	78.0	77,000
46	60.8	76.8	70,400
48	59.1	75.6	64,500
50	57.4	74.3	59,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	306,900 *
20	81.8	96.8	290,300 *
22	80.5	96.5	261,500 *
24	79.2	96.1	237,000 *
26	77.9	95.6	211,900
28	76.6	95.1	183,800
30	75.3	94.6	161,300
32	74.0	94.0	142,900
34	72.6	93.3	127,600
36	71.3	92.6	114,600
38	69.9	91.8	103,500
40	68.6	91.0	93,900
42	67.2	90.1	85,500
44	65.8	89.2	78,000
46	64.3	88.2	71,400
48	62.9	87.2	65,500
50	61.4	86.0	60,100
55	57.7	82.9	48,900
100 Ft. BOOM			
20	82.7	107.0	290,700 *
22	81.5	106.6	261,800 *
24	80.3	106.3	237,400 *
26	79.2	105.9	213,100
28	78.0	105.4	184,900
30	76.8	104.9	162,400
32	75.6	104.4	144,000
34	74.4	103.8	128,600
36	73.2	103.2	115,700
38	72.0	102.5	104,500
40	70.8	101.8	94,900
42	69.6	101.0	86,400
44	68.3	100.2	78,900
46	67.1	99.3	72,300
48	65.8	98.4	66,400
50	64.6	97.4	61,000
55	61.3	94.7	49,800
60	57.9	91.6	40,700

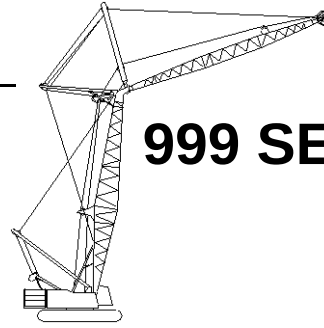
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	261,700 *
24	81.2	116.4	237,300 *
26	80.2	116.1	214,200
28	79.1	115.7	186,000
30	78.0	115.2	163,300
32	77.0	114.7	144,800
34	75.9	114.2	129,400
36	74.8	113.6	116,400
38	73.7	113.0	105,200
40	72.6	112.4	95,500
42	71.5	111.7	87,000
44	70.4	110.9	79,500
46	69.3	110.2	72,800
48	68.2	109.3	66,900
50	67.0	108.5	61,500
55	64.1	106.1	50,200
60	61.2	103.4	41,100
65	58.1	100.3	33,700
120 Ft. BOOM			
22	82.9	126.9	261,600 *
24	82.0	126.6	237,300 *
26	81.0	126.2	215,000
28	80.0	125.9	186,700
30	79.1	125.5	164,000
32	78.1	125.0	145,400
34	77.1	124.5	130,000
36	76.1	124.0	116,900
38	75.1	123.5	105,700
40	74.1	122.9	96,000
42	73.1	122.2	87,500
44	72.1	121.6	80,000
46	71.1	120.9	73,300
48	70.1	120.1	67,300
50	69.1	119.3	61,900
55	66.5	117.2	50,600
60	63.8	114.7	41,500
65	61.1	112.0	34,100
70	58.3	109.0	27,900



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

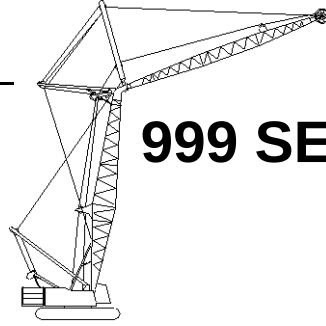


999 SERIES 1

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			
24	82.6	136.7	237,400 *
26	81.7	136.4	215,700
28	80.8	136.0	187,400
30	79.9	135.7	164,700
32	79.0	135.3	146,100
34	78.1	134.8	130,600
36	77.2	134.3	117,500
38	76.3	133.8	106,200
40	75.4	133.3	96,500
42	74.5	132.7	88,000
44	73.5	132.1	80,500
46	72.6	131.5	73,800
48	71.7	130.8	67,800
50	70.7	130.1	62,400
55	68.4	128.1	51,100
60	66.0	125.9	42,000
65	63.5	123.4	34,500
70	61.0	120.7	28,300
75	58.4	117.6	23,000
140 Ft. BOOM			
26	82.3	146.5	216,300
28	81.5	146.2	187,800
30	80.6	145.8	165,100
32	79.8	145.5	146,500
34	79.0	145.1	131,000
36	78.1	144.6	117,800
38	77.3	144.1	106,600
40	76.4	143.6	96,800
42	75.6	143.1	88,300
44	74.7	142.5	80,800
46	73.9	141.9	74,100
48	73.0	141.3	68,100
50	72.2	140.7	62,700
55	70.0	138.9	51,300
60	67.8	136.8	42,200
65	65.5	134.6	34,700
70	63.3	132.1	28,500
75	60.9	129.3	23,200
80	58.5	126.3	18,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	203,500 *
28	82.0	156.3	188,400
30	81.3	156.0	165,600
32	80.5	155.6	146,900
34	79.7	155.3	131,300
36	78.9	154.8	118,100
38	78.2	154.4	106,800
40	77.4	153.9	97,000
42	76.6	153.5	88,500
44	75.8	152.9	80,900
46	75.0	152.4	74,200
48	74.2	151.8	68,200
50	73.4	151.2	62,800
55	71.4	149.5	51,300
60	69.4	147.6	42,200
65	67.3	145.6	34,700
70	65.2	143.3	28,400
75	63.0	140.8	23,200
80	60.9	138.0	18,600
85	58.6	135.0	14,700
160 Ft. BOOM			
28	82.5	166.4	164,000
30	81.8	166.1	142,200
32	81.1	165.8	124,500
34	80.4	165.4	109,600
36	79.6	165.1	97,100
38	78.9	164.6	86,300
40	78.2	164.2	77,000
42	77.4	163.7	68,900
44	76.7	163.3	61,700
46	76.0	162.7	55,300
48	75.2	162.2	49,500
50	74.5	161.6	44,400
55	72.6	160.1	33,500
60	70.7	158.3	24,800
65	68.8	156.4	17,700
70	66.8	154.3	11,800



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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			
16	82.8	77.2	364,500 *
17	82.0	77.1	342,100 *
18	81.1	76.9	322,000 *
19	80.3	76.7	303,800 *
20	79.5	76.5	287,300 *
22	77.8	76.0	258,500 *
24	76.1	75.5	234,100 *
26	74.4	74.9	205,100
28	72.7	74.2	177,600
30	70.9	73.5	155,500
32	69.2	72.7	137,500
34	67.4	71.8	122,400
36	65.6	70.9	109,700
38	63.7	69.8	98,800
40	61.9	68.7	89,300
42	60.0	67.5	81,100
44	58.0	66.2	73,700
80 Ft. BOOM			
17	83.0	87.2	342,200 *
18	82.3	87.0	322,200 *
19	81.5	86.9	304,000 *
20	80.8	86.7	287,600 *
22	79.3	86.3	258,800 *
24	77.9	85.8	234,400 *
26	76.4	85.3	207,300
28	74.9	84.7	179,600
30	73.4	84.1	157,400
32	71.9	83.4	139,200
34	70.4	82.7	124,100
36	68.8	81.9	111,300
38	67.3	81.0	100,300
40	65.7	80.0	90,800
42	64.1	79.0	82,500
44	62.4	78.0	75,100
46	60.8	76.8	68,600
48	59.1	75.6	62,800
50	57.4	74.3	57,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	304,300 *
20	81.8	96.8	287,900 *
22	80.5	96.5	259,100 *
24	79.2	96.1	234,800 *
26	77.9	95.6	209,100
28	76.6	95.1	181,200
30	75.3	94.6	158,900
32	74.0	94.0	140,700
34	72.6	93.3	125,500
36	71.3	92.6	112,600
38	69.9	91.8	101,600
40	68.6	91.0	92,000
42	67.2	90.1	83,700
44	65.8	89.2	76,300
46	64.3	88.2	69,700
48	62.9	87.2	63,900
50	61.4	86.0	58,600
55	57.7	82.9	47,400
100 Ft. BOOM			
20	82.7	107.0	288,200 *
22	81.5	106.6	259,500 *
24	80.3	106.3	235,200 *
26	79.2	105.9	210,400
28	78.0	105.4	182,500
30	76.8	104.9	160,100
32	75.6	104.4	141,800
34	74.4	103.8	126,600
36	73.2	103.2	113,700
38	72.0	102.5	102,700
40	70.8	101.8	93,100
42	69.6	101.0	84,700
44	68.3	100.2	77,300
46	67.1	99.3	70,700
48	65.8	98.4	64,800
50	64.6	97.4	59,500
55	61.3	94.7	48,300
60	57.9	91.6	39,400

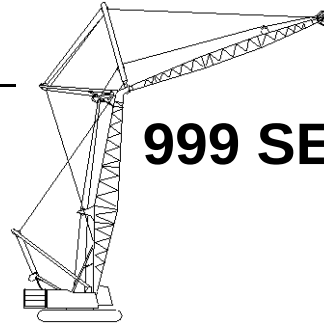
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	259,400 *
24	81.2	116.4	235,200 *
26	80.2	116.1	211,600
28	79.1	115.7	183,500
30	78.0	115.2	161,100
32	77.0	114.7	142,700
34	75.9	114.2	127,400
36	74.8	113.6	114,500
38	73.7	113.0	103,400
40	72.6	112.4	93,800
42	71.5	111.7	85,300
44	70.4	110.9	77,900
46	69.3	110.2	71,300
48	68.2	109.3	65,400
50	67.0	108.5	60,100
55	64.1	106.1	48,800
60	61.2	103.4	39,800
65	58.1	100.3	32,500
120 Ft. BOOM			
22	82.9	126.9	259,400 *
24	82.0	126.6	235,200 *
26	81.0	126.2	212,400
28	80.0	125.9	184,300
30	79.1	125.5	161,800
32	78.1	125.0	143,400
34	77.1	124.5	128,100
36	76.1	124.0	115,100
38	75.1	123.5	104,000
40	74.1	122.9	94,300
42	73.1	122.2	85,900
44	72.1	121.6	78,400
46	71.1	120.9	71,800
48	70.1	120.1	65,900
50	69.1	119.3	60,600
55	66.5	117.2	49,300
60	63.8	114.7	40,300
65	61.1	112.0	32,900
70	58.3	109.0	26,800



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

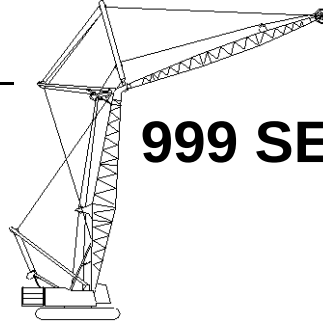


999 SERIES 1

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			
24	82.6	136.7	235,300 *
26	81.7	136.4	213,200
28	80.8	136.0	185,000
30	79.9	135.7	162,500
32	79.0	135.3	144,100
34	78.1	134.8	128,700
36	77.2	134.3	115,700
38	76.3	133.8	104,600
40	75.4	133.3	94,900
42	74.5	132.7	86,400
44	73.5	132.1	79,000
46	72.6	131.5	72,300
48	71.7	130.8	66,400
50	70.7	130.1	61,100
55	68.4	128.1	49,800
60	66.0	125.9	40,800
65	63.5	123.4	33,400
70	61.0	120.7	27,200
75	58.4	117.6	22,000
140 Ft. BOOM			
26	82.3	146.5	213,800
28	81.5	146.2	185,600
30	80.6	145.8	163,000
32	79.8	145.5	144,500
34	79.0	145.1	129,100
36	78.1	144.6	116,100
38	77.3	144.1	104,900
40	76.4	143.6	95,200
42	75.6	143.1	86,800
44	74.7	142.5	79,300
46	73.9	141.9	72,700
48	73.0	141.3	66,700
50	72.2	140.7	61,400
55	70.0	138.9	50,100
60	67.8	136.8	41,000
65	65.5	134.6	33,600
70	63.3	132.1	27,500
75	60.9	129.3	22,200
80	58.5	126.3	17,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	187,900
28	82.0	156.3	161,000
30	81.3	156.0	139,500
32	80.5	155.6	121,900
34	79.7	155.3	107,300
36	78.9	154.8	94,900
38	78.2	154.4	84,200
40	77.4	153.9	75,000
42	76.6	153.5	67,000
44	75.8	152.9	59,900
46	75.0	152.4	53,500
48	74.2	151.8	47,900
50	73.4	151.2	42,800
55	71.4	149.5	32,100
60	69.4	147.6	23,500
65	67.3	145.6	16,400
70	65.2	143.3	10,600
160 Ft. BOOM			
28	82.5	166.4	161,200
30	81.8	166.1	139,700
32	81.1	165.8	122,100
34	80.4	165.4	107,400
36	79.6	165.1	95,000
38	78.9	164.6	84,300
40	78.2	164.2	75,100
42	77.4	163.7	67,000
44	76.7	163.3	59,900
46	76.0	162.7	53,500
48	75.2	162.2	47,900
50	74.5	161.6	42,800
55	72.6	160.1	32,000
60	70.7	158.3	23,400
65	68.8	156.4	16,400
70	66.8	154.3	10,500



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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			
16	82.8	77.2	360,000 *
17	82.0	77.1	337,800 *
18	81.1	76.9	317,800 *
19	80.3	76.7	299,700 *
20	79.5	76.5	283,200 *
22	77.8	76.0	254,500 *
24	76.1	75.5	230,100 *
26	74.4	74.9	200,700
28	72.7	74.2	173,400
30	70.9	73.5	151,500
32	69.2	72.7	133,700
34	67.4	71.8	118,800
36	65.6	70.9	106,200
38	63.7	69.8	95,400
40	61.9	68.7	86,000
42	60.0	67.5	77,800
44	58.0	66.2	70,600
80 Ft. BOOM			
17	83.0	87.2	338,000 *
18	82.3	87.0	318,100 *
19	81.5	86.9	300,000 *
20	80.8	86.7	283,600 *
22	79.3	86.3	254,900 *
24	77.9	85.8	230,600 *
26	76.4	85.3	203,000
28	74.9	84.7	175,500
30	73.4	84.1	153,600
32	71.9	83.4	135,600
34	70.4	82.7	120,600
36	68.8	81.9	107,900
38	67.3	81.0	97,100
40	65.7	80.0	87,700
42	64.1	79.0	79,400
44	62.4	78.0	72,100
46	60.8	76.8	65,700
48	59.1	75.6	59,900
50	57.4	74.3	54,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	300,400 *
20	81.8	96.8	284,000 *
22	80.5	96.5	255,400 *
24	79.2	96.1	231,100 *
26	77.9	95.6	204,900
28	76.6	95.1	177,300
30	75.3	94.6	155,300
32	74.0	94.0	137,200
34	72.6	93.3	122,100
36	71.3	92.6	109,400
38	69.9	91.8	98,500
40	68.6	91.0	89,000
42	67.2	90.1	80,700
44	65.8	89.2	73,400
46	64.3	88.2	66,900
48	62.9	87.2	61,100
50	61.4	86.0	55,900
55	57.7	82.9	44,800
100 Ft. BOOM			
20	82.7	107.0	284,500 *
22	81.5	106.6	255,900 *
24	80.3	106.3	231,700 *
26	79.2	105.9	206,400
28	78.0	105.4	178,700
30	76.8	104.9	156,600
32	75.6	104.4	138,500
34	74.4	103.8	123,400
36	73.2	103.2	110,600
38	72.0	102.5	99,700
40	70.8	101.8	90,200
42	69.6	101.0	81,900
44	68.3	100.2	74,500
46	67.1	99.3	68,000
48	65.8	98.4	62,200
50	64.6	97.4	57,000
55	61.3	94.7	45,900
60	57.9	91.6	37,000

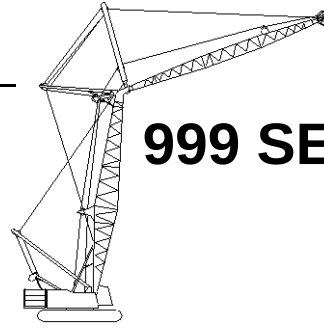
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	255,800 *
24	81.2	116.4	231,700 *
26	80.2	116.1	207,700
28	79.1	115.7	179,900
30	78.0	115.2	157,700
32	77.0	114.7	139,500
34	75.9	114.2	124,300
36	74.8	113.6	111,500
38	73.7	113.0	100,500
40	72.6	112.4	91,000
42	71.5	111.7	82,600
44	70.4	110.9	75,300
46	69.3	110.2	68,700
48	68.2	109.3	62,900
50	67.0	108.5	57,600
55	64.1	106.1	46,500
60	61.2	103.4	37,600
65	58.1	100.3	30,300
120 Ft. BOOM			
22	82.9	126.9	255,900 *
24	82.0	126.6	231,800 *
26	81.0	126.2	208,600
28	80.0	125.9	180,700
30	79.1	125.5	158,400
32	78.1	125.0	140,200
34	77.1	124.5	125,000
36	76.1	124.0	112,200
38	75.1	123.5	101,100
40	74.1	122.9	91,600
42	73.1	122.2	83,200
44	72.1	121.6	75,800
46	71.1	120.9	69,300
48	70.1	120.1	63,400
50	69.1	119.3	58,100
55	66.5	117.2	47,000
60	63.8	114.7	38,100
65	61.1	112.0	30,800
70	58.3	109.0	24,700



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

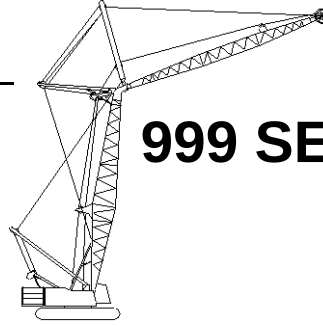


999 SERIES 1

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			
24	82.6	136.7	232,000 *
26	81.7	136.4	209,500
28	80.8	136.0	181,600
30	79.9	135.7	159,200
32	79.0	135.3	141,000
34	78.1	134.8	125,700
36	77.2	134.3	112,800
38	76.3	133.8	101,800
40	75.4	133.3	92,200
42	74.5	132.7	83,900
44	73.5	132.1	76,500
46	72.6	131.5	69,900
48	71.7	130.8	64,000
50	70.7	130.1	58,700
55	68.4	128.1	47,500
60	66.0	125.9	38,600
65	63.5	123.4	31,300
70	61.0	120.7	25,200
75	58.4	117.6	20,000
140 Ft. BOOM			
26	82.3	146.5	182,600
28	81.5	146.2	156,200
30	80.6	145.8	135,000
32	79.8	145.5	117,700
34	79.0	145.1	103,200
36	78.1	144.6	91,000
38	77.3	144.1	80,600
40	76.4	143.6	71,500
42	75.6	143.1	63,600
44	74.7	142.5	56,600
46	73.9	141.9	50,400
48	73.0	141.3	44,800
50	72.2	140.7	39,800
55	70.0	138.9	29,200
60	67.8	136.8	20,800
65	65.5	134.6	13,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	183,300
28	82.0	156.3	156,700
30	81.3	156.0	135,500
32	80.5	155.6	118,100
34	79.7	155.3	103,600
36	78.9	154.8	91,300
38	78.2	154.4	80,800
40	77.4	153.9	71,700
42	76.6	153.5	63,800
44	75.8	152.9	56,700
46	75.0	152.4	50,500
48	74.2	151.8	44,900
50	73.4	151.2	39,900
55	71.4	149.5	29,200
60	69.4	147.6	20,800
65	67.3	145.6	13,800
160 Ft. BOOM			
28	82.5	166.4	157,000
30	81.8	166.1	135,700
32	81.1	165.8	118,300
34	80.4	165.4	103,800
36	79.6	165.1	91,500
38	78.9	164.6	81,000
40	78.2	164.2	71,800
42	77.4	163.7	63,800
44	76.7	163.3	56,800
46	76.0	162.7	50,500
48	75.2	162.2	44,900
50	74.5	161.6	39,900
55	72.6	160.1	29,300
60	70.7	158.3	20,800
65	68.8	156.4	13,800



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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			
16	82.8	77.2	365,900 *
17	82.0	77.1	343,200 *
18	81.1	76.9	322,700 *
19	80.3	76.7	304,200 *
20	79.5	76.5	287,400 *
22	77.8	76.0	258,000 *
24	76.1	75.5	233,200 *
26	74.4	74.9	204,300 *
28	72.7	74.2	176,300 *
30	70.9	73.5	153,900 *
32	69.2	72.7	135,600 *
34	67.4	71.8	120,300 *
36	65.6	70.9	107,300 *
38	63.7	69.8	96,200 *
40	61.9	68.7	86,600 *
42	60.0	67.5	78,200 *
44	58.0	66.2	70,800 *
46	56.0	64.8	64,200 *
48	54.0	63.4	58,200 *
50	51.9	61.7	52,900 *
80 Ft. BOOM			
17	83.0	87.2	343,600 *
18	82.3	87.0	323,200 *
19	81.5	86.9	304,800 *
20	80.8	86.7	288,000 *
22	79.3	86.3	258,700 *
24	77.9	85.8	233,900 *
26	76.4	85.3	207,000 *
28	74.9	84.7	178,800 *
30	73.4	84.1	156,300 *
32	71.9	83.4	137,800 *
34	70.4	82.7	122,500 *
36	68.8	81.9	109,500 *
38	67.3	81.0	98,300 *
40	65.7	80.0	88,600 *
42	64.1	79.0	80,200 *
44	62.4	78.0	72,700 *
46	60.8	76.8	66,000 *
48	59.1	75.6	60,100 *
50	57.4	74.3	54,700 *
55	52.9	70.6	43,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	305,300 *
20	81.8	96.8	288,600 *
22	80.5	96.5	259,300 *
24	79.2	96.1	234,600 *
26	77.9	95.6	209,100 *
28	76.6	95.1	180,900 *
30	75.3	94.6	158,200 *
32	74.0	94.0	139,700 *
34	72.6	93.3	124,200 *
36	71.3	92.6	111,200 *
38	69.9	91.8	100,000 *
40	68.6	91.0	90,300 *
42	67.2	90.1	81,800 *
44	65.8	89.2	74,200 *
46	64.3	88.2	67,600 *
48	62.9	87.2	61,600 *
50	61.4	86.0	56,200 *
55	57.7	82.9	44,900 *
60	53.8	79.3	35,700 *
100 Ft. BOOM			
20	82.7	107.0	289,100 *
22	81.5	106.6	259,900 *
24	80.3	106.3	235,300 *
26	79.2	105.9	210,800 *
28	78.0	105.4	182,400 *
30	76.8	104.9	159,700 *
32	75.6	104.4	141,200 *
34	74.4	103.8	125,700 *
36	73.2	103.2	112,600 *
38	72.0	102.5	101,300 *
40	70.8	101.8	91,600 *
42	69.6	101.0	83,100 *
44	68.3	100.2	75,600 *
46	67.1	99.3	68,900 *
48	65.8	98.4	62,900 *
50	64.6	97.4	57,500 *
55	61.3	94.7	46,100 *
60	57.9	91.6	37,000 *
65	54.4	88.1	29,500 *

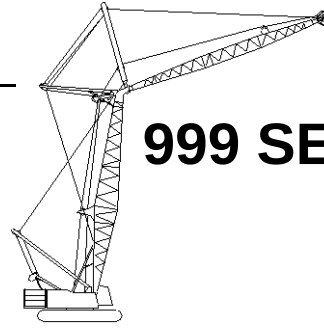
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	260,000 *
24	81.2	116.4	235,400 *
26	80.2	116.1	212,200 *
28	79.1	115.7	183,700 *
30	78.0	115.2	161,000 *
32	77.0	114.7	142,300 *
34	75.9	114.2	126,800 *
36	74.8	113.6	113,600 *
38	73.7	113.0	102,300 *
40	72.6	112.4	92,600 *
42	71.5	111.7	84,000 *
44	70.4	110.9	76,400 *
46	69.3	110.2	69,700 *
48	68.2	109.3	63,700 *
50	67.0	108.5	58,300 *
55	64.1	106.1	46,900 *
60	61.2	103.4	37,700 *
65	58.1	100.3	30,200 *
70	55.0	96.8	24,000 *
75	51.7	93.0	18,700 *
120 Ft. BOOM			
22	82.9	126.9	260,200 *
24	82.0	126.6	235,600 *
26	81.0	126.2	213,300 *
28	80.0	125.9	184,700 *
30	79.1	125.5	161,900 *
32	78.1	125.0	143,200 *
34	77.1	124.5	127,600 *
36	76.1	124.0	114,400 *
38	75.1	123.5	103,100 *
40	74.1	122.9	93,300 *
42	73.1	122.2	84,700 *
44	72.1	121.6	77,200 *
46	71.1	120.9	70,400 *
48	70.1	120.1	64,400 *
50	69.1	119.3	59,000 *
55	66.5	117.2	47,600 *
60	63.8	114.7	38,400 *
65	61.1	112.0	30,900 *
70	58.3	109.0	24,600 *
75	55.4	105.6	19,300 *
80	52.4	101.8	14,800 *



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

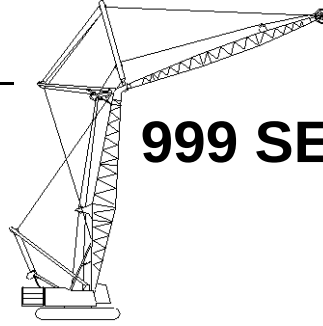


999 SERIES 1

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			
24	82.6	136.7	223,000
26	81.7	136.4	187,900
28	80.8	136.0	160,700
30	79.9	135.7	138,900
32	79.0	135.3	121,000
34	78.1	134.8	106,100
36	77.2	134.3	93,600
38	76.3	133.8	82,800
40	75.4	133.3	73,400
42	74.5	132.7	65,200
44	73.5	132.1	58,000
46	72.6	131.5	51,600
48	71.7	130.8	45,900
50	70.7	130.1	40,700
55	68.4	128.1	29,800
60	66.0	125.9	21,000
65	63.5	123.4	13,900
140 Ft. BOOM			
26	82.3	146.5	188,700
28	81.5	146.2	161,400
30	80.6	145.8	139,500
32	79.8	145.5	121,600
34	79.0	145.1	106,700
36	78.1	144.6	94,100
38	77.3	144.1	83,300
40	76.4	143.6	74,000
42	75.6	143.1	65,800
44	74.7	142.5	58,500
46	73.9	141.9	52,100
48	73.0	141.3	46,300
50	72.2	140.7	41,200
55	70.0	138.9	30,200
60	67.8	136.8	21,500
65	65.5	134.6	14,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	189,500
28	82.0	156.3	162,000
30	81.3	156.0	140,100
32	80.5	155.6	122,100
34	79.7	155.3	107,200
36	78.9	154.8	94,500
38	78.2	154.4	83,700
40	77.4	153.9	74,300
42	76.6	153.5	66,000
44	75.8	152.9	58,800
46	75.0	152.4	52,300
48	74.2	151.8	46,500
50	73.4	151.2	41,300
55	71.4	149.5	30,400
60	69.4	147.6	21,600
65	67.3	145.6	14,400
160 Ft. BOOM			
28	82.5	166.4	162,400
30	81.8	166.1	140,400
32	81.1	165.8	122,400
34	80.4	165.4	107,500
36	79.6	165.1	94,800
38	78.9	164.6	83,900
40	78.2	164.2	74,500
42	77.4	163.7	66,200
44	76.7	163.3	58,900
46	76.0	162.7	52,500
48	75.2	162.2	46,700
50	74.5	161.6	41,500
55	72.6	160.1	30,500
60	70.7	158.3	21,700
65	68.8	156.4	14,400



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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			
16	82.8	77.2	362,300 *
17	82.0	77.1	339,600 *
18	81.1	76.9	319,100 *
19	80.3	76.7	300,700 *
20	79.5	76.5	283,900 *
22	77.8	76.0	254,500 *
24	76.1	75.5	229,700 *
26	74.4	74.9	200,300
28	72.7	74.2	172,500
30	70.9	73.5	150,200
32	69.2	72.7	132,000
34	67.4	71.8	116,800
36	65.6	70.9	104,000
38	63.7	69.8	93,000
40	61.9	68.7	83,400
42	60.0	67.5	75,100
44	58.0	66.2	67,700
46	56.0	64.8	61,100
48	54.0	63.4	55,200
50	51.9	61.7	49,900
80 Ft. BOOM			
17	83.0	87.2	340,100 *
18	82.3	87.0	319,800 *
19	81.5	86.9	301,300 *
20	80.8	86.7	284,600 *
22	79.3	86.3	255,300 *
24	77.9	85.8	230,600 *
26	76.4	85.3	203,200
28	74.9	84.7	175,200
30	73.4	84.1	152,800
32	71.9	83.4	134,500
34	70.4	82.7	119,300
36	68.8	81.9	106,300
38	67.3	81.0	95,300
40	65.7	80.0	85,700
42	64.1	79.0	77,200
44	62.4	78.0	69,800
46	60.8	76.8	63,200
48	59.1	75.6	57,300
50	57.4	74.3	52,000
55	52.9	70.6	40,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	302,000 *
20	81.8	96.8	285,300 *
22	80.5	96.5	256,100 *
24	79.2	96.1	231,400 *
26	77.9	95.6	205,600
28	76.6	95.1	177,500
30	75.3	94.6	155,000
32	74.0	94.0	136,600
34	72.6	93.3	121,200
36	71.3	92.6	108,200
38	69.9	91.8	97,100
40	68.6	91.0	87,400
42	67.2	90.1	79,000
44	65.8	89.2	71,500
46	64.3	88.2	64,900
48	62.9	87.2	59,000
50	61.4	86.0	53,600
55	57.7	82.9	42,300
60	53.8	79.3	33,300
100 Ft. BOOM			
20	82.7	107.0	286,000 *
22	81.5	106.6	256,800 *
24	80.3	106.3	232,200 *
26	79.2	105.9	207,400
28	78.0	105.4	179,200
30	76.8	104.9	156,600
32	75.6	104.4	138,200
34	74.4	103.8	122,800
36	73.2	103.2	109,800
38	72.0	102.5	98,600
40	70.8	101.8	88,900
42	69.6	101.0	80,500
44	68.3	100.2	73,000
46	67.1	99.3	66,400
48	65.8	98.4	60,400
50	64.6	97.4	55,100
55	61.3	94.7	43,800
60	57.9	91.6	34,700
65	54.4	88.1	27,300

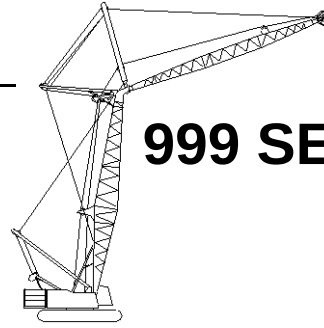
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	257,000 *
24	81.2	116.4	232,400 *
26	80.2	116.1	208,900
28	79.1	115.7	180,600
30	78.0	115.2	158,000
32	77.0	114.7	139,400
34	75.9	114.2	124,000
36	74.8	113.6	110,900
38	73.7	113.0	99,700
40	72.6	112.4	90,000
42	71.5	111.7	81,500
44	70.4	110.9	74,000
46	69.3	110.2	67,300
48	68.2	109.3	61,300
50	67.0	108.5	56,000
55	64.1	106.1	44,600
60	61.2	103.4	35,500
65	58.1	100.3	28,100
70	55.0	96.8	21,900
75	51.7	93.0	16,600
120 Ft. BOOM			
22	82.9	126.9	257,300 *
24	82.0	126.6	217,500
26	81.0	126.2	182,800
28	80.0	125.9	155,800
30	79.1	125.5	134,200
32	78.1	125.0	116,500
34	77.1	124.5	101,800
36	76.1	124.0	89,300
38	75.1	123.5	78,600
40	74.1	122.9	69,400
42	73.1	122.2	61,200
44	72.1	121.6	54,100
46	71.1	120.9	47,700
48	70.1	120.1	42,000
50	69.1	119.3	36,900
55	66.5	117.2	26,100
60	63.8	114.7	17,400
65	61.1	112.0	10,300



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

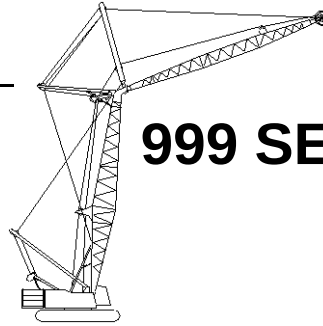


999 SERIES 1

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			
24	82.6	136.7	218,800
26	81.7	136.4	184,000
28	80.8	136.0	156,900
30	79.9	135.7	135,300
32	79.0	135.3	117,600
34	78.1	134.8	102,800
36	77.2	134.3	90,300
38	76.3	133.8	79,600
40	75.4	133.3	70,300
42	74.5	132.7	62,200
44	73.5	132.1	55,000
46	72.6	131.5	48,700
48	71.7	130.8	43,000
50	70.7	130.1	37,800
55	68.4	128.1	27,000
60	66.0	125.9	18,300
65	63.5	123.4	11,200
140 Ft. BOOM			
26	82.3	146.5	184,800
28	81.5	146.2	157,700
30	80.6	145.8	136,000
32	79.8	145.5	118,300
34	79.0	145.1	103,500
36	78.1	144.6	91,000
38	77.3	144.1	80,300
40	76.4	143.6	71,000
42	75.6	143.1	62,800
44	74.7	142.5	55,600
46	73.9	141.9	49,300
48	73.0	141.3	43,500
50	72.2	140.7	38,400
55	70.0	138.9	27,500
60	67.8	136.8	18,900
65	65.5	134.6	11,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	185,700
28	82.0	156.3	158,500
30	81.3	156.0	136,700
32	80.5	155.6	118,900
34	79.7	155.3	104,000
36	78.9	154.8	91,400
38	78.2	154.4	80,700
40	77.4	153.9	71,300
42	76.6	153.5	63,200
44	75.8	152.9	56,000
46	75.0	152.4	49,500
48	74.2	151.8	43,800
50	73.4	151.2	38,600
55	71.4	149.5	27,700
60	69.4	147.6	19,000
65	67.3	145.6	11,900
160 Ft. BOOM			
28	82.5	166.4	158,900
30	81.8	166.1	137,100
32	81.1	165.8	119,200
34	80.4	165.4	104,400
36	79.6	165.1	91,800
38	78.9	164.6	81,000
40	78.2	164.2	71,600
42	77.4	163.7	63,400
44	76.7	163.3	56,200
46	76.0	162.7	49,800
48	75.2	162.2	44,000
50	74.5	161.6	38,800
55	72.6	160.1	27,900
60	70.7	158.3	19,200
65	68.8	156.4	12,000



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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			
16	82.8	77.2	359,600 *
17	82.0	77.1	336,900 *
18	81.1	76.9	316,500 *
19	80.3	76.7	298,100 *
20	79.5	76.5	281,300 *
22	77.8	76.0	252,000 *
24	76.1	75.5	227,200 *
26	74.4	74.9	197,200
28	72.7	74.2	169,600
30	70.9	73.5	147,500
32	69.2	72.7	129,400
34	67.4	71.8	114,300
36	65.6	70.9	101,600
38	63.7	69.8	90,600
40	61.9	68.7	81,200
42	60.0	67.5	72,900
44	58.0	66.2	65,500
46	56.0	64.8	59,000
48	54.0	63.4	53,200
50	51.9	61.7	47,900
80 Ft. BOOM			
17	83.0	87.2	337,600 *
18	82.3	87.0	317,300 *
19	81.5	86.9	298,900 *
20	80.8	86.7	282,200 *
22	79.3	86.3	253,000 *
24	77.9	85.8	228,300 *
26	76.4	85.3	200,300
28	74.9	84.7	172,500
30	73.4	84.1	150,300
32	71.9	83.4	132,100
34	70.4	82.7	116,900
36	68.8	81.9	104,100
38	67.3	81.0	93,100
40	65.7	80.0	83,500
42	64.1	79.0	75,200
44	62.4	78.0	67,800
46	60.8	76.8	61,300
48	59.1	75.6	55,400
50	57.4	74.3	50,100
55	52.9	70.6	39,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	299,600 *
20	81.8	96.8	283,000 *
22	80.5	96.5	253,800 *
24	79.2	96.1	229,200 *
26	77.9	95.6	202,900
28	76.6	95.1	174,900
30	75.3	94.6	152,600
32	74.0	94.0	134,300
34	72.6	93.3	119,000
36	71.3	92.6	106,100
38	69.9	91.8	95,100
40	68.6	91.0	85,500
42	67.2	90.1	77,100
44	65.8	89.2	69,700
46	64.3	88.2	63,100
48	62.9	87.2	57,200
50	61.4	86.0	51,900
55	57.7	82.9	40,700
60	53.8	79.3	31,700
100 Ft. BOOM			
20	82.7	107.0	283,700 *
22	81.5	106.6	254,700 *
24	80.3	106.3	230,100 *
26	79.2	105.9	204,800
28	78.0	105.4	176,700
30	76.8	104.9	154,300
32	75.6	104.4	136,000
34	74.4	103.8	120,700
36	73.2	103.2	107,800
38	72.0	102.5	96,700
40	70.8	101.8	87,100
42	69.6	101.0	78,700
44	68.3	100.2	71,200
46	67.1	99.3	64,600
48	65.8	98.4	58,700
50	64.6	97.4	53,400
55	61.3	94.7	42,200
60	57.9	91.6	33,200
65	54.4	88.1	25,800

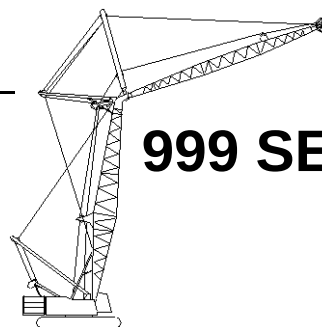
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	254,900 *
24	81.2	116.4	212,800
26	80.2	116.1	178,400
28	79.1	115.7	151,700
30	78.0	115.2	130,300
32	77.0	114.7	112,800
34	75.9	114.2	98,200
36	74.8	113.6	85,800
38	73.7	113.0	75,300
40	72.6	112.4	66,100
42	71.5	111.7	58,100
44	70.4	110.9	51,000
46	69.3	110.2	44,700
48	68.2	109.3	39,100
50	67.0	108.5	34,000
55	64.1	106.1	23,300
60	61.2	103.4	14,700
120 Ft. BOOM			
22	82.9	126.9	255,200 *
24	82.0	126.6	214,300
26	81.0	126.2	179,800
28	80.0	125.9	153,000
30	79.1	125.5	131,500
32	78.1	125.0	114,000
34	77.1	124.5	99,300
36	76.1	124.0	87,000
38	75.1	123.5	76,400
40	74.1	122.9	67,200
42	73.1	122.2	59,100
44	72.1	121.6	52,000
46	71.1	120.9	45,700
48	70.1	120.1	40,100
50	69.1	119.3	35,000
55	66.5	117.2	24,300
60	63.8	114.7	15,700



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

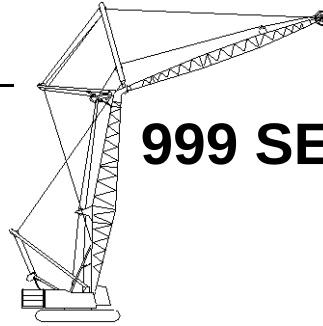


999 SERIES 1

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			
24	82.6	136.7	215,600
26	81.7	136.4	181,100
28	80.8	136.0	154,200
30	79.9	135.7	132,700
32	79.0	135.3	115,100
34	78.1	134.8	100,500
36	77.2	134.3	88,100
38	76.3	133.8	77,400
40	75.4	133.3	68,200
42	74.5	132.7	60,200
44	73.5	132.1	53,000
46	72.6	131.5	46,700
48	71.7	130.8	41,100
50	70.7	130.1	36,000
55	68.4	128.1	25,200
60	66.0	125.9	16,600
140 Ft. BOOM			
26	82.3	146.5	182,000
28	81.5	146.2	155,100
30	80.6	145.8	133,500
32	79.8	145.5	115,900
34	79.0	145.1	101,200
36	78.1	144.6	88,800
38	77.3	144.1	78,100
40	76.4	143.6	68,900
42	75.6	143.1	60,800
44	74.7	142.5	53,700
46	73.9	141.9	47,400
48	73.0	141.3	41,700
50	72.2	140.7	36,600
55	70.0	138.9	25,800
60	67.8	136.8	17,200
65	65.5	134.6	10,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	182,900
28	82.0	156.3	155,900
30	81.3	156.0	134,200
32	80.5	155.6	116,500
34	79.7	155.3	101,800
36	78.9	154.8	89,300
38	78.2	154.4	78,600
40	77.4	153.9	69,400
42	76.6	153.5	61,200
44	75.8	152.9	54,100
46	75.0	152.4	47,700
48	74.2	151.8	42,000
50	73.4	151.2	36,900
55	71.4	149.5	26,100
60	69.4	147.6	17,400
65	67.3	145.6	10,400
160 Ft. BOOM			
28	82.5	166.4	156,400
30	81.8	166.1	134,700
32	81.1	165.8	117,000
34	80.4	165.4	102,200
36	79.6	165.1	89,700
38	78.9	164.6	79,000
40	78.2	164.2	69,700
42	77.4	163.7	61,600
44	76.7	163.3	54,400
46	76.0	162.7	48,000
48	75.2	162.2	42,300
50	74.5	161.6	37,200
55	72.6	160.1	26,300
60	70.7	158.3	17,700
65	68.8	156.4	10,600



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 1

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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			
16	82.8	77.2	355,800 *
17	82.0	77.1	333,100 *
18	81.1	76.9	312,700 *
19	80.3	76.7	294,300 *
20	79.5	76.5	277,600 *
22	77.8	76.0	248,300 *
24	76.1	75.5	223,600 *
26	74.4	74.9	193,000
28	72.7	74.2	165,600
30	70.9	73.5	143,700
32	69.2	72.7	125,700
34	67.4	71.8	110,700
36	65.6	70.9	98,100
38	63.7	69.8	87,200
40	61.9	68.7	77,800
42	60.0	67.5	69,500
44	58.0	66.2	62,300
46	56.0	64.8	55,800
48	54.0	63.4	50,000
50	51.9	61.7	44,800
80 Ft. BOOM			
17	83.0	87.2	333,900 *
18	82.3	87.0	313,600 *
19	81.5	86.9	295,300 *
20	80.8	86.7	278,600 *
22	79.3	86.3	249,500 *
24	77.9	85.8	224,800 *
26	76.4	85.3	196,400
28	74.9	84.7	168,800
30	73.4	84.1	146,700
32	71.9	83.4	128,600
34	70.4	82.7	113,600
36	68.8	81.9	100,800
38	67.3	81.0	89,900
40	65.7	80.0	80,400
42	64.1	79.0	72,100
44	62.4	78.0	64,800
46	60.8	76.8	58,300
48	59.1	75.6	52,500
50	57.4	74.3	47,200
55	52.9	70.6	36,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	296,200 *
20	81.8	96.8	279,500 *
22	80.5	96.5	250,500 *
24	79.2	96.1	225,900 *
26	77.9	95.6	199,100
28	76.6	95.1	171,300
30	75.3	94.6	149,100
32	74.0	94.0	131,000
34	72.6	93.3	115,800
36	71.3	92.6	103,000
38	69.9	91.8	92,000
40	68.6	91.0	82,500
42	67.2	90.1	74,200
44	65.8	89.2	66,800
46	64.3	88.2	60,300
48	62.9	87.2	54,400
50	61.4	86.0	49,200
55	57.7	82.9	38,000
60	53.8	79.3	29,100
100 Ft. BOOM			
20	82.7	107.0	280,400 *
22	81.5	106.6	251,300
24	80.3	106.3	206,000
26	79.2	105.9	172,100
28	78.0	105.4	145,700
30	76.8	104.9	124,500
32	75.6	104.4	107,300
34	74.4	103.8	92,900
36	73.2	103.2	80,700
38	72.0	102.5	70,200
40	70.8	101.8	61,200
42	69.6	101.0	53,300
44	68.3	100.2	46,300
46	67.1	99.3	40,100
48	65.8	98.4	34,500
50	64.6	97.4	29,500
55	61.3	94.7	19,000
60	57.9	91.6	10,500

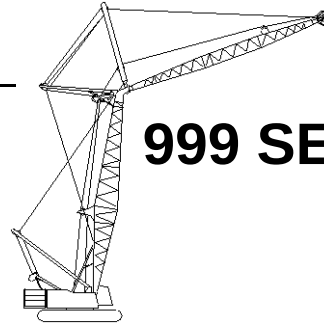
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	251,800 *
24	81.2	116.4	208,100
26	80.2	116.1	174,000
28	79.1	115.7	147,500
30	78.0	115.2	126,300
32	77.0	114.7	108,900
34	75.9	114.2	94,400
36	74.8	113.6	82,200
38	73.7	113.0	71,700
40	72.6	112.4	62,600
42	71.5	111.7	54,700
44	70.4	110.9	47,600
46	69.3	110.2	41,400
48	68.2	109.3	35,800
50	67.0	108.5	30,800
55	64.1	106.1	20,200
60	61.2	103.4	11,700
120 Ft. BOOM			
22	82.9	126.9	252,100 *
24	82.0	126.6	209,700
26	81.0	126.2	175,500
28	80.0	125.9	148,900
30	79.1	125.5	127,600
32	78.1	125.0	110,200
34	77.1	124.5	95,700
36	76.1	124.0	83,400
38	75.1	123.5	72,900
40	74.1	122.9	63,800
42	73.1	122.2	55,800
44	72.1	121.6	48,800
46	71.1	120.9	42,500
48	70.1	120.1	36,900
50	69.1	119.3	31,900
55	66.5	117.2	21,300
60	63.8	114.7	12,700



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 1

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
130 Ft. BOOM			
24	82.6	136.7	211,200
26	81.7	136.4	176,900
28	80.8	136.0	150,300
30	79.9	135.7	128,900
32	79.0	135.3	111,500
34	78.1	134.8	97,000
36	77.2	134.3	84,700
38	76.3	133.8	74,100
40	75.4	133.3	65,000
42	74.5	132.7	57,000
44	73.5	132.1	49,900
46	72.6	131.5	43,700
48	71.7	130.8	38,000
50	70.7	130.1	33,000
55	68.4	128.1	22,300
60	66.0	125.9	13,800
140 Ft. BOOM			
26	82.3	146.5	177,900
28	81.5	146.2	151,200
30	80.6	145.8	129,800
32	79.8	145.5	112,400
34	79.0	145.1	97,800
36	78.1	144.6	85,500
38	77.3	144.1	74,900
40	76.4	143.6	65,800
42	75.6	143.1	57,700
44	74.7	142.5	50,700
46	73.9	141.9	44,400
48	73.0	141.3	38,800
50	72.2	140.7	33,700
55	70.0	138.9	23,000
60	67.8	136.8	14,500

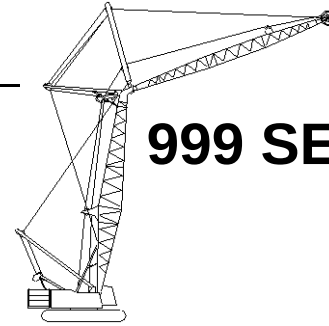
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	179,000
28	82.0	156.3	152,100
30	81.3	156.0	130,700
32	80.5	155.6	113,100
34	79.7	155.3	98,500
36	78.9	154.8	86,100
38	78.2	154.4	75,500
40	77.4	153.9	66,300
42	76.6	153.5	58,200
44	75.8	152.9	51,100
46	75.0	152.4	44,800
48	74.2	151.8	39,200
50	73.4	151.2	34,100
55	71.4	149.5	23,400
60	69.4	147.6	14,800
160 Ft. BOOM			
28	82.5	166.4	152,700
30	81.8	166.1	131,200
32	81.1	165.8	113,600
34	80.4	165.4	98,900
36	79.6	165.1	86,500
38	78.9	164.6	75,900
40	78.2	164.2	66,700
42	77.4	163.7	58,600
44	76.7	163.3	51,500
46	76.0	162.7	45,200
48	75.2	162.2	39,500
50	74.5	161.6	34,400
55	72.6	160.1	23,700
60	70.7	158.3	15,100



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
149,600 Lb. Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 1

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			
16	82.8	77.2	352,100 *
17	82.0	77.1	329,500 *
18	81.1	76.9	309,200 *
19	80.3	76.7	290,800 *
20	79.5	76.5	274,100 *
22	77.8	76.0	244,900 *
24	76.1	75.5	220,200 *
26	74.4	74.9	189,000
28	72.7	74.2	161,800
30	70.9	73.5	140,000
32	69.2	72.7	122,200
34	67.4	71.8	107,300
36	65.6	70.9	94,800
38	63.7	69.8	84,000
40	61.9	68.7	74,700
42	60.0	67.5	66,500
44	58.0	66.2	59,300
46	56.0	64.8	52,900
48	54.0	63.4	47,100
50	51.9	61.7	42,000
80 Ft. BOOM			
17	83.0	87.2	330,500 *
18	82.3	87.0	310,300 *
19	81.5	86.9	292,000 *
20	80.8	86.7	275,300 *
22	79.3	86.3	246,200 *
24	77.9	85.8	221,600 *
26	76.4	85.3	192,600
28	74.9	84.7	165,200
30	73.4	84.1	143,300
32	71.9	83.4	125,300
34	70.4	82.7	110,400
36	68.8	81.9	97,800
38	67.3	81.0	86,900
40	65.7	80.0	77,500
42	64.1	79.0	69,300
44	62.4	78.0	62,000
46	60.8	76.8	55,600
48	59.1	75.6	49,800
50	57.4	74.3	44,600
55	52.9	70.6	33,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	293,000 *
20	81.8	96.8	276,400 *
22	80.5	96.5	243,500
24	79.2	96.1	198,800
26	77.9	95.6	165,200
28	76.6	95.1	139,100
30	75.3	94.6	118,200
32	74.0	94.0	101,100
34	72.6	93.3	86,900
36	71.3	92.6	74,900
38	69.9	91.8	64,500
40	68.6	91.0	55,600
42	67.2	90.1	47,800
44	65.8	89.2	40,900
46	64.3	88.2	34,700
48	62.9	87.2	29,200
50	61.4	86.0	24,300
55	57.7	82.9	13,900
100 Ft. BOOM			
20	82.7	107.0	277,300 *
22	81.5	106.6	246,300
24	80.3	106.3	201,400
26	79.2	105.9	167,800
28	78.0	105.4	141,600
30	76.8	104.9	120,600
32	75.6	104.4	103,500
34	74.4	103.8	89,300
36	73.2	103.2	77,200
38	72.0	102.5	66,800
40	70.8	101.8	57,900
42	69.6	101.0	50,000
44	68.3	100.2	43,100
46	67.1	99.3	36,900
48	65.8	98.4	31,400
50	64.6	97.4	26,500
55	61.3	94.7	16,000

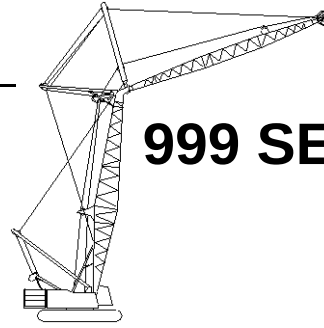
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	248,800 *
24	81.2	116.4	203,700
26	80.2	116.1	169,900
28	79.1	115.7	143,600
30	78.0	115.2	122,500
32	77.0	114.7	105,300
34	75.9	114.2	91,000
36	74.8	113.6	78,800
38	73.7	113.0	68,400
40	72.6	112.4	59,400
42	71.5	111.7	51,500
44	70.4	110.9	44,600
46	69.3	110.2	38,400
48	68.2	109.3	32,900
50	67.0	108.5	27,900
55	64.1	106.1	17,400
120 Ft. BOOM			
22	82.9	126.9	249,300 *
24	82.0	126.6	205,400
26	81.0	126.2	171,500
28	80.0	125.9	145,100
30	79.1	125.5	124,000
32	78.1	125.0	106,800
34	77.1	124.5	92,400
36	76.1	124.0	80,200
38	75.1	123.5	69,800
40	74.1	122.9	60,800
42	73.1	122.2	52,800
44	72.1	121.6	45,900
46	71.1	120.9	39,700
48	70.1	120.1	34,100
50	69.1	119.3	29,100
55	66.5	117.2	18,600
60	63.8	114.7	10,200



Liftcrane Boom Capacities With Luffing Jib Attached

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999 SERIES 1

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
130 Ft. BOOM			
24	82.6	136.7	207,000
26	81.7	136.4	173,000
28	80.8	136.0	146,600
30	79.9	135.7	125,400
32	79.0	135.3	108,100
34	78.1	134.8	93,700
36	77.2	134.3	81,500
38	76.3	133.8	71,100
40	75.4	133.3	62,000
42	74.5	132.7	54,100
44	73.5	132.1	47,100
46	72.6	131.5	40,900
48	71.7	130.8	35,300
50	70.7	130.1	30,300
55	68.4	128.1	19,800
60	66.0	125.9	11,300
140 Ft. BOOM			
26	82.3	146.5	174,100
28	81.5	146.2	147,600
30	80.6	145.8	126,400
32	79.8	145.5	109,100
34	79.0	145.1	94,700
36	78.1	144.6	82,400
38	77.3	144.1	72,000
40	76.4	143.6	62,900
42	75.6	143.1	55,000
44	74.7	142.5	48,000
46	73.9	141.9	41,700
48	73.0	141.3	36,200
50	72.2	140.7	31,100
55	70.0	138.9	20,600
60	67.8	136.8	12,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	175,200
28	82.0	156.3	148,600
30	81.3	156.0	127,300
32	80.5	155.6	109,900
34	79.7	155.3	95,400
36	78.9	154.8	83,100
38	78.2	154.4	72,600
40	77.4	153.9	63,500
42	76.6	153.5	55,500
44	75.8	152.9	48,500
46	75.0	152.4	42,200
48	74.2	151.8	36,600
50	73.4	151.2	31,600
55	71.4	149.5	21,000
60	69.4	147.6	12,500
160 Ft. BOOM			
28	82.5	166.4	149,300
30	81.8	166.1	127,900
32	81.1	165.8	110,500
34	80.4	165.4	95,900
36	79.6	165.1	83,600
38	78.9	164.6	73,100
40	78.2	164.2	64,000
42	77.4	163.7	56,000
44	76.7	163.3	48,900
46	76.0	162.7	42,600
48	75.2	162.2	37,000
50	74.5	161.6	32,000
55	72.6	160.1	21,300
60	70.7	158.3	12,800