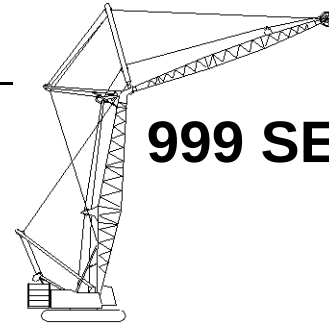




Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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 (*).

190 Ft. boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

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.

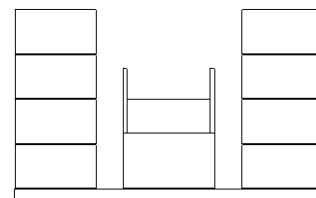
MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8249-A**.

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, 184,600 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

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



184,600 Lb. Crane Counterweight
8 Side Boxes - 1 Center Box

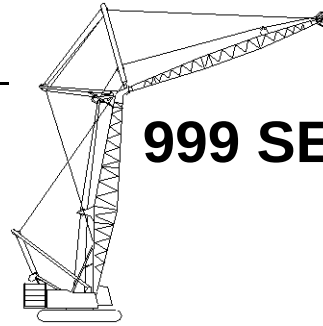
Consult Chart **No. 8271-A** for luffing jib capacities.



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	394,000 *
17	82.0	77.1	370,600 *
18	81.1	76.9	349,600 *
19	80.3	76.7	330,600 *
20	79.5	76.5	313,300 *
22	77.8	76.0	283,100 *
24	76.1	75.5	257,500 *
26	74.4	74.9	235,600 *
28	72.7	74.2	216,700 *
30	70.9	73.5	200,100 *
80 Ft. BOOM			
17	83.0	87.2	369,300 *
18	82.3	87.0	349,200 *
19	81.5	86.9	330,200 *
20	80.8	86.7	313,000 *
22	79.3	86.3	282,800 *
24	77.9	85.8	257,300 *
26	76.4	85.3	235,400 *
28	74.9	84.7	216,500 *
30	73.4	84.1	199,900 *
32	71.9	83.4	185,300 *
34	70.4	82.7	171,300 *
90 Ft. BOOM			
19	82.5	97.0	329,400 *
20	81.8	96.8	312,900 *
22	80.5	96.5	282,700 *
24	79.2	96.1	257,200 *
26	77.9	95.6	235,300 *
28	76.6	95.1	216,400 *
30	75.3	94.6	199,800 *
32	74.0	94.0	185,200 *
34	72.6	93.3	172,100 *
36	71.3	92.6	156,100 *

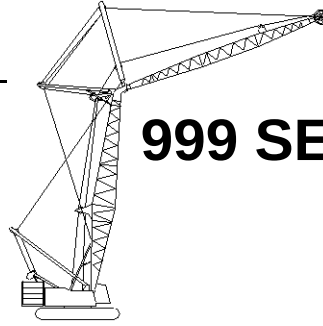
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	312,900 *
22	81.5	106.6	282,700 *
24	80.3	106.3	257,200 *
26	79.2	105.9	235,400 *
28	78.0	105.4	216,500 *
30	76.8	104.9	200,000 *
32	75.6	104.4	185,400 *
34	74.4	103.8	172,400 *
36	73.2	103.2	156,700 *
38	72.0	102.5	143,000 *
40	70.8	101.8	131,100 *
110 Ft. BOOM			
22	82.3	116.8	282,300 *
24	81.2	116.4	256,900 *
26	80.2	116.1	235,000 *
28	79.1	115.7	216,100 *
30	78.0	115.2	199,600 *
32	77.0	114.7	185,000 *
34	75.9	114.2	172,000 *
36	74.8	113.6	157,100 *
38	73.7	113.0	143,300 *
40	72.6	112.4	131,400 *
42	71.5	111.7	120,900 *
44	70.4	110.9	111,700 *
120 Ft. BOOM			
22	82.9	126.9	275,700 *
24	82.0	126.6	256,600 *
26	81.0	126.2	234,800 *
28	80.0	125.9	215,900 *
30	79.1	125.5	199,400 *
32	78.1	125.0	184,800 *
34	77.1	124.5	171,800 *
36	76.1	124.0	157,300 *
38	75.1	123.5	143,500 *
40	74.1	122.9	131,600 *
42	73.1	122.2	121,100 *
44	72.1	121.6	111,900 *
46	71.1	120.9	103,700 *
48	70.1	120.1	96,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	241,400 *
26	81.7	136.4	234,600 *
28	80.8	136.0	215,800 *
30	79.9	135.7	199,300 *
32	79.0	135.3	184,700 *
34	78.1	134.8	171,800 *
36	77.2	134.3	157,700 *
38	76.3	133.8	143,900 *
40	75.4	133.3	131,900 *
42	74.5	132.7	121,400 *
44	73.5	132.1	112,200 *
46	72.6	131.5	104,000 *
48	71.7	130.8	96,600 *
50	70.7	130.1	90,000 *
140 Ft. BOOM			
26	82.3	146.5	223,200 *
28	81.5	146.2	215,500 *
30	80.6	145.8	199,000 *
32	79.8	145.5	184,400 *
34	79.0	145.1	171,500 *
36	78.1	144.6	157,800 *
38	77.3	144.1	144,000 *
40	76.4	143.6	132,000 *
42	75.6	143.1	121,500 *
44	74.7	142.5	112,300 *
46	73.9	141.9	104,100 *
48	73.0	141.3	96,700 *
50	72.2	140.7	90,100 *
150 Ft. BOOM			
26	82.8	156.6	199,100 *
28	82.0	156.3	194,200 *
30	81.3	156.0	189,500 *
32	80.5	155.6	183,800 *
34	79.7	155.3	170,900 *
36	78.9	154.8	157,900 *
38	78.2	154.4	144,100 *
40	77.4	153.9	132,100 *
42	76.6	153.5	121,500 *
44	75.8	152.9	112,300 *
46	75.0	152.4	104,000 *
48	74.2	151.8	96,600 *
50	73.4	151.2	90,000 *
55	71.4	149.5	76,000 *

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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
160 Ft. BOOM			
28	82.5	166.4	184,800 *
30	81.8	166.1	180,300 *
32	81.1	165.8	175,900 *
34	80.4	165.4	170,400 *
36	79.6	165.1	157,900
38	78.9	164.6	144,000
40	78.2	164.2	132,000
42	77.4	163.7	121,500
44	76.7	163.3	112,200
46	76.0	162.7	103,900
48	75.2	162.2	96,500
50	74.5	161.6	89,900
55	72.6	160.1	75,800
60	70.7	158.3	64,600
170 Ft. BOOM			
28	83.0	176.5	169,000 *
30	82.3	176.2	165,500 *
32	81.6	175.9	162,100 *
34	80.9	175.6	158,700 *
36	80.3	175.2	155,300 *
38	79.6	174.9	144,100
40	78.9	174.4	132,000
42	78.2	174.0	121,500
44	77.5	173.6	112,200
46	76.8	173.1	103,900
48	76.1	172.6	96,500
50	75.4	172.0	89,900
55	73.7	170.6	75,800
60	71.9	168.9	64,600
65	70.1	167.1	55,400

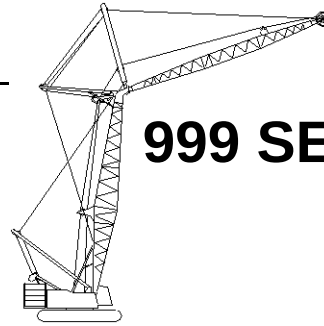
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	155,800 *
32	82.1	186.0	152,700 *
34	81.4	185.7	149,500 *
36	80.8	185.4	146,300 *
38	80.2	185.0	143,200 *
40	79.5	184.6	131,900
42	78.9	184.2	121,400
44	78.2	183.8	112,000
46	77.6	183.4	103,800
48	76.9	182.9	96,400
50	76.2	182.4	89,700
55	74.6	181.0	75,600
60	72.9	179.5	64,300
65	71.2	177.8	55,100
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	111,300
42	79.4	194.4	101,200
44	78.8	194.0	92,400
46	78.2	193.6	84,500
48	77.6	193.2	77,500
50	77.0	192.7	71,200
55	75.4	191.4	57,800
60	73.9	189.9	47,100
65	72.3	188.4	38,400
70	70.7	186.6	31,100



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	394,200 *
17	82.0	77.1	370,700 *
18	81.1	76.9	349,500 *
19	80.3	76.7	330,300 *
20	79.5	76.5	312,900 *
22	77.8	76.0	282,400 *
24	76.1	75.5	256,700 *
26	74.4	74.9	234,700 *
28	72.7	74.2	215,600 *
30	70.9	73.5	198,900 *
32	69.2	72.7	184,100 *
34	67.4	71.8	169,100
36	65.6	70.9	153,200
80 Ft. BOOM			
17	83.0	87.2	370,300 *
18	82.3	87.0	349,300 *
19	81.5	86.9	330,100 *
20	80.8	86.7	312,700 *
22	79.3	86.3	282,300 *
24	77.9	85.8	256,600 *
26	76.4	85.3	234,600 *
28	74.9	84.7	215,500 *
30	73.4	84.1	198,800 *
32	71.9	83.4	184,100 *
34	70.4	82.7	170,200
36	68.8	81.9	154,200
38	67.3	81.0	140,500
40	65.7	80.0	128,600
42	64.1	79.0	118,200

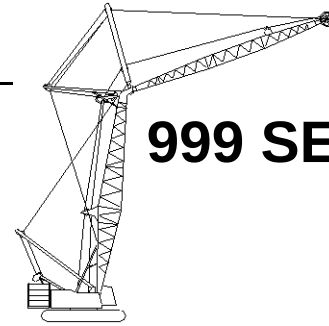
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	330,100 *
20	81.8	96.8	312,700 *
22	80.5	96.5	282,400 *
24	79.2	96.1	256,700 *
26	77.9	95.6	234,700 *
28	76.6	95.1	215,600 *
30	75.3	94.6	198,900 *
32	74.0	94.0	184,200 *
34	72.6	93.3	171,200
36	71.3	92.6	155,100
38	69.9	91.8	141,300
40	68.6	91.0	129,400
42	67.2	90.1	119,000
44	65.8	89.2	109,800
46	64.3	88.2	101,600
100 Ft. BOOM			
20	82.7	107.0	312,900 *
22	81.5	106.6	282,500 *
24	80.3	106.3	256,900 *
26	79.2	105.9	234,900 *
28	78.0	105.4	215,800 *
30	76.8	104.9	199,200 *
32	75.6	104.4	184,500 *
34	74.4	103.8	171,500 *
36	73.2	103.2	155,800
38	72.0	102.5	142,100
40	70.8	101.8	130,100
42	69.6	101.0	119,700
44	68.3	100.2	110,400
46	67.1	99.3	102,200
48	65.8	98.4	94,900
50	64.6	97.4	88,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	282,200 *
24	81.2	116.4	256,600 *
26	80.2	116.1	234,600 *
28	79.1	115.7	215,600 *
30	78.0	115.2	198,900 *
32	77.0	114.7	184,200 *
34	75.9	114.2	171,200 *
36	74.8	113.6	156,300
38	73.7	113.0	142,500
40	72.6	112.4	130,500
42	71.5	111.7	120,000
44	70.4	110.9	110,800
46	69.3	110.2	102,600
48	68.2	109.3	95,200
50	67.0	108.5	88,600
55	64.1	106.1	74,600
120 Ft. BOOM			
22	82.9	126.9	277,300 *
24	82.0	126.6	256,400 *
26	81.0	126.2	234,500 *
28	80.0	125.9	215,400 *
30	79.1	125.5	198,800 *
32	78.1	125.0	184,100 *
34	77.1	124.5	171,100 *
36	76.1	124.0	156,700
38	75.1	123.5	142,900
40	74.1	122.9	130,800
42	73.1	122.2	120,300
44	72.1	121.6	111,100
46	71.1	120.9	102,800
48	70.1	120.1	95,500
50	69.1	119.3	88,800
55	66.5	117.2	74,800

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	243,700 *
26	81.7	136.4	234,400 *
28	80.8	136.0	215,400 *
30	79.9	135.7	198,800 *
32	79.0	135.3	184,100 *
34	78.1	134.8	171,100 *
36	77.2	134.3	157,100
38	76.3	133.8	143,300
40	75.4	133.3	131,200
42	74.5	132.7	120,700
44	73.5	132.1	111,400
46	72.6	131.5	103,200
48	71.7	130.8	95,800
50	70.7	130.1	89,100
55	68.4	128.1	75,100
60	66.0	125.9	63,900
140 Ft. BOOM			
26	82.3	146.5	225,600 *
28	81.5	146.2	215,200 *
30	80.6	145.8	198,600 *
32	79.8	145.5	183,900 *
34	79.0	145.1	170,900 *
36	78.1	144.6	157,400
38	77.3	144.1	143,500
40	76.4	143.6	131,400
42	75.6	143.1	120,900
44	74.7	142.5	111,600
46	73.9	141.9	103,300
48	73.0	141.3	95,900
50	72.2	140.7	89,300
55	70.0	138.9	75,200
60	67.8	136.8	64,000
65	65.5	134.6	54,800
150 Ft. BOOM			
26	82.8	156.6	201,500 *
28	82.0	156.3	196,500 *
30	81.3	156.0	191,500 *
32	80.5	155.6	183,400 *
34	79.7	155.3	170,300 *
36	78.9	154.8	157,500
38	78.2	154.4	143,600
40	77.4	153.9	131,500
42	76.6	153.5	120,900
44	75.8	152.9	111,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
46	75.0	152.4	103,300
48	74.2	151.8	95,900
50	73.4	151.2	89,200
55	71.4	149.5	75,100
60	69.4	147.6	63,900
65	67.3	145.6	54,600
70	65.2	143.3	46,900
160 Ft. BOOM			
28	82.5	166.4	187,300 *
30	81.8	166.1	182,700 *
32	81.1	165.8	178,100 *
34	80.4	165.4	169,900 *
36	79.6	165.1	157,600
38	78.9	164.6	143,600
40	78.2	164.2	131,500
42	77.4	163.7	120,900
44	76.7	163.3	111,600
46	76.0	162.7	103,300
48	75.2	162.2	95,900
50	74.5	161.6	89,200
55	72.6	160.1	75,000
60	70.7	158.3	63,700
65	68.8	156.4	54,500
70	66.8	154.3	46,800
75	64.9	152.0	40,300
170 Ft. BOOM			
28	83.0	176.5	171,600 *
30	82.3	176.2	167,900 *
32	81.6	175.9	164,300 *
34	80.9	175.6	160,800 *
36	80.3	175.2	157,200 *
38	79.6	174.9	143,700
40	78.9	174.4	131,600
42	78.2	174.0	121,000
44	77.5	173.6	111,600
46	76.8	173.1	103,300
48	76.1	172.6	95,900
50	75.4	172.0	89,200
55	73.7	170.6	75,100
60	71.9	168.9	63,800
65	70.1	167.1	54,500
70	68.3	165.2	46,800
75	66.4	163.0	40,300
80	64.6	160.6	34,700

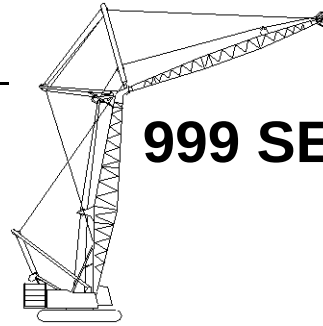
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	158,500 *
32	82.1	186.0	155,200 *
34	81.4	185.7	150,500
36	80.8	185.4	135,000
38	80.2	185.0	121,700
40	79.5	184.6	110,200
42	78.9	184.2	100,100
44	78.2	183.8	91,200
46	77.6	183.4	83,300
48	76.9	182.9	76,300
50	76.2	182.4	69,900
55	74.6	181.0	56,500
60	72.9	179.5	45,700
65	71.2	177.8	36,900
70	69.5	175.9	29,600
75	67.8	173.9	23,400
80	66.1	171.7	18,100
85	64.3	169.3	13,500
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	110,800
42	79.4	194.4	100,700
44	78.8	194.0	91,800
46	78.2	193.6	83,800
48	77.6	193.2	76,800
50	77.0	192.7	70,400
55	75.4	191.4	56,900
60	73.9	189.9	46,100
65	72.3	188.4	37,300
70	70.7	186.6	30,000
75	69.1	184.7	23,800
80	67.4	182.7	18,400
85	65.8	180.4	13,800



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	389,800 *
17	82.0	77.1	366,400 *
18	81.1	76.9	345,300 *
19	80.3	76.7	326,300 *
20	79.5	76.5	309,000 *
22	77.8	76.0	278,700 *
24	76.1	75.5	253,100 *
26	74.4	74.9	231,200 *
28	72.7	74.2	212,200 *
30	70.9	73.5	195,600 *
32	69.2	72.7	181,000 *
34	67.4	71.8	165,900 *
36	65.6	70.9	150,100 *
80 Ft. BOOM			
17	83.0	87.2	366,300 *
18	82.3	87.0	345,200 *
19	81.5	86.9	326,200 *
20	80.8	86.7	308,900 *
22	79.3	86.3	278,700 *
24	77.9	85.8	253,100 *
26	76.4	85.3	231,200 *
28	74.9	84.7	212,300 *
30	73.4	84.1	195,700 *
32	71.9	83.4	181,100 *
34	70.4	82.7	167,100 *
36	68.8	81.9	151,200 *
38	67.3	81.0	137,700 *
40	65.7	80.0	125,900 *
42	64.1	79.0	115,600 *
90 Ft. BOOM			
19	82.5	97.0	326,300 *
20	81.8	96.8	309,000 *
22	80.5	96.5	278,800 *
24	79.2	96.1	253,200 *
26	77.9	95.6	231,400 *
28	76.6	95.1	212,400 *
30	75.3	94.6	195,900 *
32	74.0	94.0	181,300 *
34	72.6	93.3	168,100 *
36	71.3	92.6	152,200 *
38	69.9	91.8	138,600 *
40	68.6	91.0	126,800 *
42	67.2	90.1	116,400 *
44	65.8	89.2	107,300 *
46	64.3	88.2	99,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	309,200 *
22	81.5	106.6	279,000 *
24	80.3	106.3	253,500 *
26	79.2	105.9	231,700 *
28	78.0	105.4	212,700 *
30	76.8	104.9	196,200 *
32	75.6	104.4	181,600 *
34	74.4	103.8	168,600 *
36	73.2	103.2	153,000 *
38	72.0	102.5	139,400 *
40	70.8	101.8	127,600 *
42	69.6	101.0	117,200 *
44	68.3	100.2	108,100 *
46	67.1	99.3	99,900 *
48	65.8	98.4	92,700 *
50	64.6	97.4	86,100 *
110 Ft. BOOM			
22	82.3	116.8	278,800 *
24	81.2	116.4	253,300 *
26	80.2	116.1	231,400 *
28	79.1	115.7	212,500 *
30	78.0	115.2	196,000 *
32	77.0	114.7	181,400 *
34	75.9	114.2	168,400 *
36	74.8	113.6	153,600 *
38	73.7	113.0	139,900 *
40	72.6	112.4	128,000 *
42	71.5	111.7	117,600 *
44	70.4	110.9	108,500 *
46	69.3	110.2	100,300 *
48	68.2	109.3	93,000 *
50	67.0	108.5	86,400 *
55	64.1	106.1	72,600 *
120 Ft. BOOM			
22	82.9	126.9	274,400 *
24	82.0	126.6	253,200 *
26	81.0	126.2	231,300 *
28	80.0	125.9	212,400 *
30	79.1	125.5	195,900 *
32	78.1	125.0	181,300 *
34	77.1	124.5	168,400 *
36	76.1	124.0	154,000 *
38	75.1	123.5	140,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
40	74.1	122.9	128,400 *
42	73.1	122.2	118,000 *
44	72.1	121.6	108,800 *
46	71.1	120.9	100,600 *
48	70.1	120.1	93,300 *
50	69.1	119.3	86,700 *
55	66.5	117.2	72,800 *
130 Ft. BOOM			
24	82.6	136.7	240,300 *
26	81.7	136.4	231,400 *
28	80.8	136.0	212,500 *
30	79.9	135.7	196,000 *
32	79.0	135.3	181,400 *
34	78.1	134.8	168,400 *
36	77.2	134.3	154,500 *
38	76.3	133.8	140,700 *
40	75.4	133.3	128,800 *
42	74.5	132.7	118,400 *
44	73.5	132.1	109,200 *
46	72.6	131.5	101,000 *
48	71.7	130.8	93,700 *
50	70.7	130.1	87,100 *
55	68.4	128.1	73,200 *
60	66.0	125.9	62,100 *
140 Ft. BOOM			
26	82.3	146.5	222,200 *
28	81.5	146.2	212,200 *
30	80.6	145.8	195,700 *
32	79.8	145.5	181,200 *
34	79.0	145.1	168,300 *
36	78.1	144.6	154,800 *
38	77.3	144.1	141,000 *
40	76.4	143.6	129,000 *
42	75.6	143.1	118,600 *
44	74.7	142.5	109,400 *
46	73.9	141.9	101,200 *
48	73.0	141.3	93,900 *
50	72.2	140.7	87,300 *
55	70.0	138.9	73,300 *
60	67.8	136.8	62,200 *
65	65.5	134.6	53,100 *



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82 or 22EL

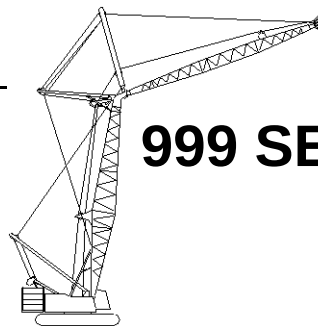
Luffing Jib No. 135

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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
150 Ft. BOOM			
26	82.8	156.6	198,300 *
28	82.0	156.3	193,300 *
30	81.3	156.0	188,400 *
32	80.5	155.6	180,700 *
34	79.7	155.3	167,700 *
36	78.9	154.8	155,000
38	78.2	154.4	141,200
40	77.4	153.9	129,200
42	76.6	153.5	118,700
44	75.8	152.9	109,500
46	75.0	152.4	101,200
48	74.2	151.8	93,900
50	73.4	151.2	87,300
55	71.4	149.5	73,300
60	69.4	147.6	62,100
65	67.3	145.6	53,000
70	65.2	143.3	45,300
160 Ft. BOOM			
28	82.5	166.4	184,000 *
30	81.8	166.1	179,400 *
32	81.1	165.8	174,900 *
34	80.4	165.4	167,400 *
36	79.6	165.1	155,000
38	78.9	164.6	141,200
40	78.2	164.2	129,200
42	77.4	163.7	118,700
44	76.7	163.3	109,400
46	76.0	162.7	101,200
48	75.2	162.2	93,900
50	74.5	161.6	87,200
55	72.6	160.1	73,200
60	70.7	158.3	62,000
65	68.8	156.4	52,900
70	66.8	154.3	45,200
75	64.9	152.0	38,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.5	168,400 *
30	82.3	176.2	164,900 *
32	81.6	175.9	161,300 *
34	80.9	175.6	147,200
36	80.3	175.2	131,900
38	79.6	174.9	118,800
40	78.9	174.4	107,400
42	78.2	174.0	97,500
44	77.5	173.6	88,700
46	76.8	173.1	80,900
48	76.1	172.6	73,900
50	75.4	172.0	67,700
55	73.7	170.6	54,400
60	71.9	168.9	43,800
65	70.1	167.1	35,100
70	68.3	165.2	27,900
75	66.4	163.0	21,800
80	64.6	160.6	16,600
180 Ft. BOOM			
30	82.7	186.3	155,400 *
32	82.1	186.0	152,100 *
34	81.4	185.7	147,100
36	80.8	185.4	131,800
38	80.2	185.0	118,600
40	79.5	184.6	107,300
42	78.9	184.2	97,300
44	78.2	183.8	88,500
46	77.6	183.4	80,700
48	76.9	182.9	73,700
50	76.2	182.4	67,400
55	74.6	181.0	54,200
60	72.9	179.5	43,600
65	71.2	177.8	34,900
70	69.5	175.9	27,600
75	67.8	173.9	21,500
80	66.1	171.7	16,300
85	64.3	169.3	11,700

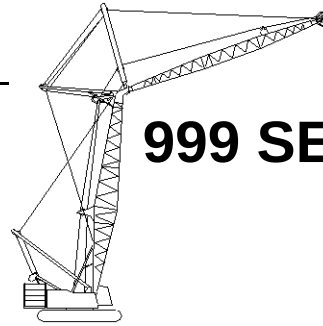
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	107,900
42	79.4	194.4	97,900
44	78.8	194.0	89,100
46	78.2	193.6	81,300
48	77.6	193.2	74,300
50	77.0	192.7	67,900
55	75.4	191.4	54,600
60	73.9	189.9	44,000
65	72.3	188.4	35,300
70	70.7	186.6	28,000
75	69.1	184.7	21,900
80	67.4	182.7	16,600
85	65.8	180.4	12,100



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	393,000 *
17	82.0	77.1	369,200 *
18	81.1	76.9	347,900 *
19	80.3	76.7	328,500 *
20	79.5	76.5	310,900 *
22	77.8	76.0	280,200 *
24	76.1	75.5	254,200 *
26	74.4	74.9	232,000 *
28	72.7	74.2	212,700 *
30	70.9	73.5	195,800 *
32	69.2	72.7	180,900 *
34	67.4	71.8	165,900
36	65.6	70.9	149,900
38	63.7	69.8	136,200
40	61.9	68.7	124,300
42	60.0	67.5	113,900
44	58.0	66.2	104,700
80 Ft. BOOM			
17	83.0	87.2	369,300 *
18	82.3	87.0	347,900 *
19	81.5	86.9	328,600 *
20	80.8	86.7	311,100 *
22	79.3	86.3	280,400 *
24	77.9	85.8	254,500 *
26	76.4	85.3	232,200 *
28	74.9	84.7	213,000 *
30	73.4	84.1	196,200 *
32	71.9	83.4	181,300 *
34	70.4	82.7	167,400
36	68.8	81.9	151,400
38	67.3	81.0	137,600
40	65.7	80.0	125,600
42	64.1	79.0	115,200
44	62.4	78.0	106,000
46	60.8	76.8	97,800
48	59.1	75.6	90,400
50	57.4	74.3	83,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	328,800 *
20	81.8	96.8	311,300 *
22	80.5	96.5	280,700 *
24	79.2	96.1	254,700 *
26	77.9	95.6	232,600 *
28	76.6	95.1	213,300 *
30	75.3	94.6	196,500 *
32	74.0	94.0	181,700 *
34	72.6	93.3	168,500 *
36	71.3	92.6	152,600
38	69.9	91.8	138,800
40	68.6	91.0	126,800
42	67.2	90.1	116,300
44	65.8	89.2	107,000
46	64.3	88.2	98,800
48	62.9	87.2	91,400
50	61.4	86.0	84,800
55	57.7	82.9	70,800
100 Ft. BOOM			
20	82.7	107.0	311,600 *
22	81.5	106.6	281,000 *
24	80.3	106.3	255,100 *
26	79.2	105.9	233,000 *
28	78.0	105.4	213,800 *
30	76.8	104.9	197,000 *
32	75.6	104.4	182,200 *
34	74.4	103.8	169,000 *
36	73.2	103.2	153,600
38	72.0	102.5	139,700
40	70.8	101.8	127,700
42	69.6	101.0	117,200
44	68.3	100.2	108,000
46	67.1	99.3	99,700
48	65.8	98.4	92,300
50	64.6	97.4	85,700
55	61.3	94.7	71,700
60	57.9	91.6	60,400

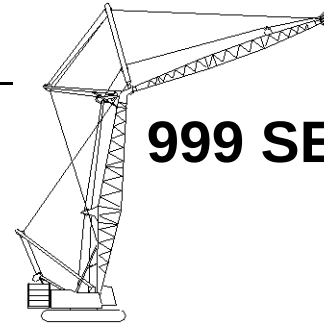
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	280,900 *
24	81.2	116.4	255,000 *
26	80.2	116.1	232,900 *
28	79.1	115.7	213,700 *
30	78.0	115.2	196,900 *
32	77.0	114.7	182,100 *
34	75.9	114.2	169,000 *
36	74.8	113.6	154,300
38	73.7	113.0	140,400
40	72.6	112.4	128,400
42	71.5	111.7	117,800
44	70.4	110.9	108,500
46	69.3	110.2	100,200
48	68.2	109.3	92,800
50	67.0	108.5	86,200
55	64.1	106.1	72,100
60	61.2	103.4	60,800
65	58.1	100.3	51,600
120 Ft. BOOM			
22	82.9	126.9	278,500 *
24	82.0	126.6	255,000 *
26	81.0	126.2	232,900 *
28	80.0	125.9	213,700 *
30	79.1	125.5	196,900 *
32	78.1	125.0	182,200 *
34	77.1	124.5	169,000 *
36	76.1	124.0	154,800
38	75.1	123.5	140,900
40	74.1	122.9	128,900
42	73.1	122.2	118,300
44	72.1	121.6	109,000
46	71.1	120.9	100,700
48	70.1	120.1	93,300
50	69.1	119.3	86,600
55	66.5	117.2	72,500
60	63.8	114.7	61,200
65	61.1	112.0	52,000
70	58.3	109.0	44,300



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	245,400 *
26	81.7	136.4	233,000 *
28	80.8	136.0	213,800 *
30	79.9	135.7	197,100 *
32	79.0	135.3	182,300 *
34	78.1	134.8	169,200 *
36	77.2	134.3	155,400
38	76.3	133.8	141,500
40	75.4	133.3	129,400
42	74.5	132.7	118,800
44	73.5	132.1	109,500
46	72.6	131.5	101,200
48	71.7	130.8	93,800
50	70.7	130.1	87,100
55	68.4	128.1	73,000
60	66.0	125.9	61,700
65	63.5	123.4	52,400
70	61.0	120.7	44,700
75	58.4	117.6	38,200
140 Ft. BOOM			
26	82.3	146.5	227,500 *
28	81.5	146.2	213,700 *
30	80.6	145.8	196,900 *
32	79.8	145.5	182,200 *
34	79.0	145.1	169,100 *
36	78.1	144.6	155,800
38	77.3	144.1	141,800
40	76.4	143.6	129,700
42	75.6	143.1	119,100
44	74.7	142.5	109,800
46	73.9	141.9	101,500
48	73.0	141.3	94,000
50	72.2	140.7	87,300
55	70.0	138.9	73,200
60	67.8	136.8	61,900
65	65.5	134.6	52,600
70	63.3	132.1	44,900
75	60.9	129.3	38,400
80	58.5	126.3	32,800

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	198,300 *
30	81.3	156.0	193,100 *
32	80.5	155.6	181,700 *
34	79.7	155.3	168,600 *
36	78.9	154.8	156,100
38	78.2	154.4	142,000
40	77.4	153.9	129,900
42	76.6	153.5	119,300
44	75.8	152.9	109,900
46	75.0	152.4	101,600
48	74.2	151.8	94,100
50	73.4	151.2	87,400
55	71.4	149.5	73,200
60	69.4	147.6	61,900
65	67.3	145.6	52,600
70	65.2	143.3	44,900
75	63.0	140.8	38,300
80	60.9	138.0	32,700
85	58.6	135.0	27,800
160 Ft. BOOM			
28	82.5	166.4	189,500 *
30	81.8	166.1	184,600 *
32	81.1	165.8	167,200
34	80.4	165.4	148,800
36	79.6	165.1	133,200
38	78.9	164.6	119,900
40	78.2	164.2	108,300
42	77.4	163.7	98,200
44	76.7	163.3	89,300
46	76.0	162.7	81,400
48	75.2	162.2	74,300
50	74.5	161.6	67,900

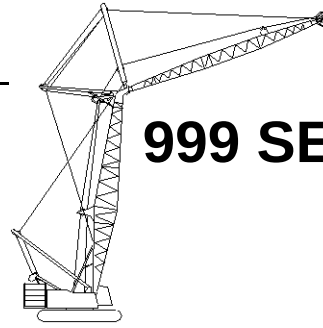
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
55	72.6	160.1	54,400
60	70.7	158.3	43,600
65	68.8	156.4	34,800
70	66.8	154.3	27,400
75	64.9	152.0	21,200
80	62.9	149.4	15,900
85	60.8	146.7	11,200
170 Ft. BOOM			
28	83.0	176.5	173,800 *
30	82.3	176.2	170,000 *
32	81.6	175.9	166,200 *
34	80.9	175.6	149,000
36	80.3	175.2	133,400
38	79.6	174.9	120,000
40	78.9	174.4	108,500
42	78.2	174.0	98,400
44	77.5	173.6	89,400
46	76.8	173.1	81,500
48	76.1	172.6	74,400
50	75.4	172.0	68,000
55	73.7	170.6	54,500
60	71.9	168.9	43,700
65	70.1	167.1	34,800
70	68.3	165.2	27,500
75	66.4	163.0	21,200
80	64.6	160.6	15,900
85	62.7	158.1	11,300



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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
180 Ft. BOOM			
30	82.7	186.3	160,900 *
32	82.1	186.0	157,300 *
34	81.4	185.7	148,900
36	80.8	185.4	133,300
38	80.2	185.0	120,000
40	79.5	184.6	108,400
42	78.9	184.2	98,200
44	78.2	183.8	89,300
46	77.6	183.4	81,300
48	76.9	182.9	74,200
50	76.2	182.4	67,800
55	74.6	181.0	54,300
60	72.9	179.5	43,500
65	71.2	177.8	34,600
70	69.5	175.9	27,200
75	67.8	173.9	21,000
80	66.1	171.7	15,600
85	64.3	169.3	11,000

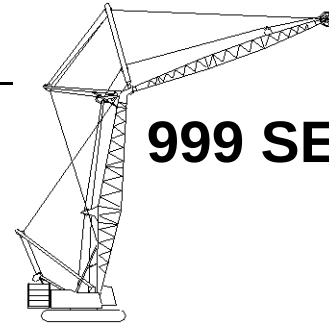
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	109,100
42	79.4	194.4	98,900
44	78.8	194.0	89,900
46	78.2	193.6	82,000
48	77.6	193.2	74,800
50	77.0	192.7	68,400
55	75.4	191.4	54,800
60	73.9	189.9	44,000
65	72.3	188.4	35,100
70	70.7	186.6	27,700
75	69.1	184.7	21,400
80	67.4	182.7	16,100
85	65.8	180.4	11,400



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	390,100 *
17	82.0	77.1	366,400 *
18	81.1	76.9	345,100 *
19	80.3	76.7	325,800 *
20	79.5	76.5	308,300 *
22	77.8	76.0	277,700 *
24	76.1	75.5	251,800 *
26	74.4	74.9	229,600 *
28	72.7	74.2	210,400 *
30	70.9	73.5	193,600 *
32	69.2	72.7	178,700 *
34	67.4	71.8	163,500 *
36	65.6	70.9	147,600 *
38	63.7	69.8	134,000 *
40	61.9	68.7	122,200 *
42	60.0	67.5	111,900 *
44	58.0	66.2	102,800 *
80 Ft. BOOM			
17	83.0	87.2	366,500 *
18	82.3	87.0	345,200 *
19	81.5	86.9	326,000 *
20	80.8	86.7	308,500 *
22	79.3	86.3	278,000 *
24	77.9	85.8	252,100 *
26	76.4	85.3	230,000 *
28	74.9	84.7	210,800 *
30	73.4	84.1	194,000 *
32	71.9	83.4	179,200 *
34	70.4	82.7	165,200 *
36	68.8	81.9	149,200 *
38	67.3	81.0	135,500 *
40	65.7	80.0	123,700 *
42	64.1	79.0	113,300 *
44	62.4	78.0	104,100 *
46	60.8	76.8	96,000 *
48	59.1	75.6	88,700 *
50	57.4	74.3	82,200 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	326,300 *
20	81.8	96.8	308,800 *
22	80.5	96.5	278,300 *
24	79.2	96.1	252,500 *
26	77.9	95.6	230,400 *
28	76.6	95.1	211,200 *
30	75.3	94.6	194,500 *
32	74.0	94.0	179,700 *
34	72.6	93.3	166,600 *
36	71.3	92.6	150,600 *
38	69.9	91.8	136,800 *
40	68.6	91.0	124,900 *
42	67.2	90.1	114,500 *
44	65.8	89.2	105,300 *
46	64.3	88.2	97,100 *
48	62.9	87.2	89,800 *
50	61.4	86.0	83,200 *
55	57.7	82.9	69,300 *
100 Ft. BOOM			
20	82.7	107.0	309,200 *
22	81.5	106.6	278,700 *
24	80.3	106.3	252,900 *
26	79.2	105.9	230,900 *
28	78.0	105.4	211,800 *
30	76.8	104.9	195,000 *
32	75.6	104.4	180,300 *
34	74.4	103.8	167,200 *
36	73.2	103.2	151,600 *
38	72.0	102.5	137,900 *
40	70.8	101.8	126,000 *
42	69.6	101.0	115,500 *
44	68.3	100.2	106,300 *
46	67.1	99.3	98,100 *
48	65.8	98.4	90,800 *
50	64.6	97.4	84,200 *
55	61.3	94.7	70,300 *
60	57.9	91.6	59,100 *

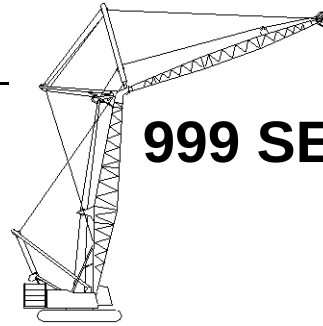
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	278,600 *
24	81.2	116.4	252,900 *
26	80.2	116.1	230,800 *
28	79.1	115.7	211,700 *
30	78.0	115.2	195,000 *
32	77.0	114.7	180,300 *
34	75.9	114.2	167,200 *
36	74.8	113.6	152,400 *
38	73.7	113.0	138,600 *
40	72.6	112.4	126,600 *
42	71.5	111.7	116,200 *
44	70.4	110.9	106,900 *
46	69.3	110.2	98,700 *
48	68.2	109.3	91,400 *
50	67.0	108.5	84,700 *
55	64.1	106.1	70,800 *
60	61.2	103.4	59,600 *
65	58.1	100.3	50,400 *
120 Ft. BOOM			
22	82.9	126.9	276,900 *
24	82.0	126.6	252,900 *
26	81.0	126.2	230,900 *
28	80.0	125.9	211,800 *
30	79.1	125.5	195,100 *
32	78.1	125.0	180,400 *
34	77.1	124.5	167,300 *
36	76.1	124.0	153,000 *
38	75.1	123.5	139,200 *
40	74.1	122.9	127,200 *
42	73.1	122.2	116,700 *
44	72.1	121.6	107,400 *
46	71.1	120.9	99,200 *
48	70.1	120.1	91,800 *
50	69.1	119.3	85,200 *
55	66.5	117.2	71,200 *
60	63.8	114.7	60,000 *
65	61.1	112.0	50,800 *
70	58.3	109.0	43,200 *



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	243,700 *
26	81.7	136.4	231,000 *
28	80.8	136.0	211,900 *
30	79.9	135.7	195,300 *
32	79.0	135.3	180,600 *
34	78.1	134.8	167,500 *
36	77.2	134.3	153,600
38	76.3	133.8	139,800
40	75.4	133.3	127,800
42	74.5	132.7	117,300
44	73.5	132.1	108,000
46	72.6	131.5	99,700
48	71.7	130.8	92,400
50	70.7	130.1	85,700
55	68.4	128.1	71,700
60	66.0	125.9	60,500
65	63.5	123.4	51,300
70	61.0	120.7	43,700
75	58.4	117.6	37,200
140 Ft. BOOM			
26	82.3	146.5	225,700 *
28	81.5	146.2	211,800 *
30	80.6	145.8	195,200 *
32	79.8	145.5	180,500 *
34	79.0	145.1	167,400 *
36	78.1	144.6	154,000
38	77.3	144.1	140,100
40	76.4	143.6	128,100
42	75.6	143.1	117,600
44	74.7	142.5	108,300
46	73.9	141.9	100,100
48	73.0	141.3	92,700
50	72.2	140.7	86,000
55	70.0	138.9	72,000
60	67.8	136.8	60,800
65	65.5	134.6	51,600
70	63.3	132.1	43,900
75	60.9	129.3	37,400
80	58.5	126.3	31,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	201,900 *
28	82.0	156.3	196,600 *
30	81.3	156.0	186,500
32	80.5	155.6	164,600
34	79.7	155.3	146,400
36	78.9	154.8	131,000
38	78.2	154.4	117,800
40	77.4	153.9	106,300
42	76.6	153.5	96,300
44	75.8	152.9	87,500
46	75.0	152.4	79,600
48	74.2	151.8	72,600
50	73.4	151.2	66,300
55	71.4	149.5	52,900
60	69.4	147.6	42,200
65	67.3	145.6	33,500
70	65.2	143.3	26,200
75	63.0	140.8	20,100
80	60.9	138.0	14,800
85	58.6	135.0	10,200
160 Ft. BOOM			
28	82.5	166.4	187,700 *
30	81.8	166.1	182,900 *
32	81.1	165.8	164,800
34	80.4	165.4	146,500
36	79.6	165.1	131,100
38	78.9	164.6	117,900
40	78.2	164.2	106,400
42	77.4	163.7	96,400
44	76.7	163.3	87,500
46	76.0	162.7	79,600
48	75.2	162.2	72,600
50	74.5	161.6	66,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
55	72.6	160.1	52,900
60	70.7	158.3	42,200
65	68.8	156.4	33,400
70	66.8	154.3	26,100
75	64.9	152.0	20,000
80	62.9	149.4	14,700
85	60.8	146.7	10,100
170 Ft. BOOM			
28	83.0	176.5	172,200 *
30	82.3	176.2	168,400 *
32	81.6	175.9	164,500 *
34	80.9	175.6	146,800
36	80.3	175.2	131,300
38	79.6	174.9	118,100
40	78.9	174.4	106,600
42	78.2	174.0	96,500
44	77.5	173.6	87,700
46	76.8	173.1	79,800
48	76.1	172.6	72,700
50	75.4	172.0	66,400
55	73.7	170.6	53,000
60	71.9	168.9	42,300
65	70.1	167.1	33,500
70	68.3	165.2	26,200
75	66.4	163.0	20,000
80	64.6	160.6	14,700
85	62.7	158.1	10,100



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82 or 22EL

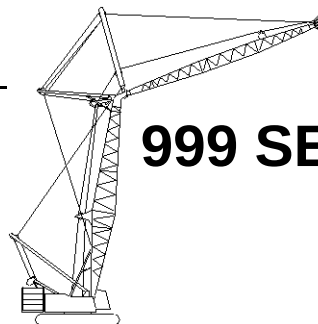
Luffing Jib No. 135

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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
180 Ft. BOOM			
30	82.7	186.3	159,200 *
32	82.1	186.0	155,700 *
34	81.4	185.7	146,800
36	80.8	185.4	131,300
38	80.2	185.0	118,000
40	79.5	184.6	106,500
42	78.9	184.2	96,500
44	78.2	183.8	87,600
46	77.6	183.4	79,700
48	76.9	182.9	72,600
50	76.2	182.4	66,300
55	74.6	181.0	52,900
60	72.9	179.5	42,100
65	71.2	177.8	33,300
70	69.5	175.9	26,000
75	67.8	173.9	19,800
80	66.1	171.7	14,500

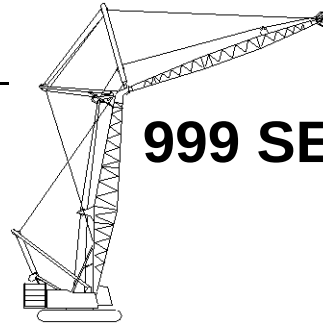
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	107,200
42	79.4	194.4	97,100
44	78.8	194.0	88,200
46	78.2	193.6	80,300
48	77.6	193.2	73,200
50	77.0	192.7	66,900
55	75.4	191.4	53,400
60	73.9	189.9	42,600
65	72.3	188.4	33,800
70	70.7	186.6	26,500
75	69.1	184.7	20,300
80	67.4	182.7	15,000
85	65.8	180.4	10,400



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	385,700 *
17	82.0	77.1	362,100 *
18	81.1	76.9	340,800 *
19	80.3	76.7	321,600 *
20	79.5	76.5	304,200 *
22	77.8	76.0	273,700 *
24	76.1	75.5	247,900 *
26	74.4	74.9	225,800 *
28	72.7	74.2	206,600 *
30	70.9	73.5	189,900 *
32	69.2	72.7	175,100 *
34	67.4	71.8	159,900
36	65.6	70.9	144,100
38	63.7	69.8	130,600
40	61.9	68.7	118,900
42	60.0	67.5	108,600
44	58.0	66.2	99,600
80 Ft. BOOM			
17	83.0	87.2	362,300 *
18	82.3	87.0	341,100 *
19	81.5	86.9	321,900 *
20	80.8	86.7	304,500 *
22	79.3	86.3	274,100 *
24	77.9	85.8	248,300 *
26	76.4	85.3	226,300 *
28	74.9	84.7	207,200 *
30	73.4	84.1	190,500 *
32	71.9	83.4	175,800 *
34	70.4	82.7	161,700
36	68.8	81.9	145,900
38	67.3	81.0	132,300
40	65.7	80.0	120,500
42	64.1	79.0	110,200
44	62.4	78.0	101,200
46	60.8	76.8	93,100
48	59.1	75.6	85,900
50	57.4	74.3	79,300

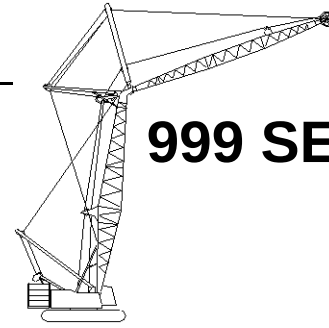
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	322,300 *
20	81.8	96.8	304,900 *
22	80.5	96.5	274,500 *
24	79.2	96.1	248,800 *
26	77.9	95.6	226,800 *
28	76.6	95.1	207,800 *
30	75.3	94.6	191,100 *
32	74.0	94.0	176,400 *
34	72.6	93.3	163,200
36	71.3	92.6	147,300
38	69.9	91.8	133,700
40	68.6	91.0	121,900
42	67.2	90.1	111,600
44	65.8	89.2	102,400
46	64.3	88.2	94,300
48	62.9	87.2	87,100
50	61.4	86.0	80,500
55	57.7	82.9	66,800
100 Ft. BOOM			
20	82.7	107.0	305,400 *
22	81.5	106.6	275,100 *
24	80.3	106.3	249,400 *
26	79.2	105.9	227,400 *
28	78.0	105.4	208,400 *
30	76.8	104.9	191,700 *
32	75.6	104.4	177,100 *
34	74.4	103.8	164,000 *
36	73.2	103.2	148,500
38	72.0	102.5	134,900
40	70.8	101.8	123,100
42	69.6	101.0	112,700
44	68.3	100.2	103,600
46	67.1	99.3	95,400
48	65.8	98.4	88,200
50	64.6	97.4	81,600
55	61.3	94.7	67,800
60	57.9	91.6	56,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	275,000 *
24	81.2	116.4	249,400 *
26	80.2	116.1	227,400 *
28	79.1	115.7	208,400 *
30	78.0	115.2	191,800 *
32	77.0	114.7	177,100 *
34	75.9	114.2	164,100 *
36	74.8	113.6	149,400
38	73.7	113.0	135,700
40	72.6	112.4	123,800
42	71.5	111.7	113,400
44	70.4	110.9	104,300
46	69.3	110.2	96,100
48	68.2	109.3	88,800
50	67.0	108.5	82,200
55	64.1	106.1	68,400
60	61.2	103.4	57,300
65	58.1	100.3	48,200
120 Ft. BOOM			
22	82.9	126.9	273,900 *
24	82.0	126.6	249,500 *
26	81.0	126.2	227,600 *
28	80.0	125.9	208,600 *
30	79.1	125.5	191,900 *
32	78.1	125.0	177,300 *
34	77.1	124.5	164,300 *
36	76.1	124.0	150,100
38	75.1	123.5	136,400
40	74.1	122.9	124,500
42	73.1	122.2	114,000
44	72.1	121.6	104,900
46	71.1	120.9	96,700
48	70.1	120.1	89,400
50	69.1	119.3	82,800
55	66.5	117.2	68,900
60	63.8	114.7	57,800
65	61.1	112.0	48,700
70	58.3	109.0	41,100

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



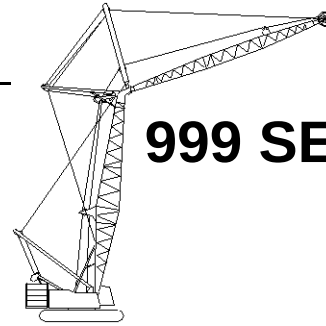
999 SERIES 2

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	240,200 *
26	81.7	136.4	227,800 *
28	80.8	136.0	208,800 *
30	79.9	135.7	192,200 *
32	79.0	135.3	177,500 *
34	78.1	134.8	164,500 *
36	77.2	134.3	150,800
38	76.3	133.8	137,000
40	75.4	133.3	125,100
42	74.5	132.7	114,700
44	73.5	132.1	105,500
46	72.6	131.5	97,300
48	71.7	130.8	90,000
50	70.7	130.1	83,400
55	68.4	128.1	69,500
60	66.0	125.9	58,300
65	63.5	123.4	49,200
70	61.0	120.7	41,600
75	58.4	117.6	35,200
140 Ft. BOOM			
26	82.3	146.5	222,100 *
28	81.5	146.2	208,300
30	80.6	145.8	182,000
32	79.8	145.5	160,400
34	79.0	145.1	142,400
36	78.1	144.6	127,200
38	77.3	144.1	114,100
40	76.4	143.6	102,800
42	75.6	143.1	92,900
44	74.7	142.5	84,200
46	73.9	141.9	76,500
48	73.0	141.3	69,500
50	72.2	140.7	63,300
55	70.0	138.9	50,100
60	67.8	136.8	39,600
65	65.5	134.6	30,900
70	63.3	132.1	23,800
75	60.9	129.3	17,700
80	58.5	126.3	12,500
150 Ft. BOOM			
26	82.8	156.6	198,500 *
28	82.0	156.3	193,200 *
30	81.3	156.0	182,400
32	80.5	155.6	160,800
34	79.7	155.3	142,700
36	78.9	154.8	127,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
38	78.2	154.4	114,400
40	77.4	153.9	103,000
42	76.6	153.5	93,100
44	75.8	152.9	84,400
46	75.0	152.4	76,600
48	74.2	151.8	69,600
50	73.4	151.2	63,300
55	71.4	149.5	50,100
60	69.4	147.6	39,500
65	67.3	145.6	30,900
70	65.2	143.3	23,700
75	63.0	140.8	17,600
80	60.9	138.0	12,300
160 Ft. BOOM			
28	82.5	166.4	184,300 *
30	81.8	166.1	179,400 *
32	81.1	165.8	161,000
34	80.4	165.4	142,900
36	79.6	165.1	127,600
38	78.9	164.6	114,500
40	78.2	164.2	103,100
42	77.4	163.7	93,200
44	76.7	163.3	84,400
46	76.0	162.7	76,600
48	75.2	162.2	69,700
50	74.5	161.6	63,400
55	72.6	160.1	50,100
60	70.7	158.3	39,500
65	68.8	156.4	30,900
70	66.8	154.3	23,700
75	64.9	152.0	17,500
80	62.9	149.4	12,300
170 Ft. BOOM			
28	83.0	176.5	168,900 *
30	82.3	176.2	165,100 *
32	81.6	175.9	161,300 *
34	80.9	175.6	143,200
36	80.3	175.2	127,900
38	79.6	174.9	114,700
40	78.9	174.4	103,400
42	78.2	174.0	93,400
44	77.5	173.6	84,600
46	76.8	173.1	76,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
48	76.1	172.6	69,900
50	75.4	172.0	63,600
55	73.7	170.6	50,300
60	71.9	168.9	39,700
65	70.1	167.1	31,000
70	68.3	165.2	23,800
75	66.4	163.0	17,700
80	64.6	160.6	12,400
180 Ft. BOOM			
30	82.7	186.3	155,900 *
32	82.1	186.0	152,400 *
34	81.4	185.7	143,200
36	80.8	185.4	127,900
38	80.2	185.0	114,800
40	79.5	184.6	103,400
42	78.9	184.2	93,400
44	78.2	183.8	84,600
46	77.6	183.4	76,800
48	76.9	182.9	69,800
50	76.2	182.4	63,500
55	74.6	181.0	50,200
60	72.9	179.5	39,600
65	71.2	177.8	30,900
70	69.5	175.9	23,600
75	67.8	173.9	17,500
80	66.1	171.7	12,200
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	115,500
40	80.1	194.8	104,100
42	79.4	194.4	94,100
44	78.8	194.0	85,300
46	78.2	193.6	77,400
48	77.6	193.2	70,400
50	77.0	192.7	64,100
55	75.4	191.4	50,800
60	73.9	189.9	40,100
65	72.3	188.4	31,400
70	70.7	186.6	24,100
75	69.1	184.7	18,000
80	67.4	182.7	12,700



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody 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	391,600 *
17	82.0	77.1	367,500 *
18	81.1	76.9	345,800 *
19	80.3	76.7	326,200 *
20	79.5	76.5	308,400 *
22	77.8	76.0	277,200 *
24	76.1	75.5	250,900 *
26	74.4	74.9	228,300 *
28	72.7	74.2	208,800 *
30	70.9	73.5	191,700 *
32	69.2	72.7	176,600 *
34	67.4	71.8	161,400
36	65.6	70.9	145,300
38	63.7	69.8	131,500
40	61.9	68.7	119,500
42	60.0	67.5	109,000
44	58.0	66.2	99,800
46	56.0	64.8	91,600
48	54.0	63.4	84,200
50	51.9	61.7	77,600
80 Ft. BOOM			
17	83.0	87.2	367,900 *
18	82.3	87.0	346,300 *
19	81.5	86.9	326,700 *
20	80.8	86.7	308,900 *
22	79.3	86.3	277,900 *
24	77.9	85.8	251,600 *
26	76.4	85.3	229,100 *
28	74.9	84.7	209,600 *
30	73.4	84.1	192,600 *
32	71.9	83.4	177,500 *
34	70.4	82.7	163,600
36	68.8	81.9	147,400
38	67.3	81.0	133,500
40	65.7	80.0	121,500
42	64.1	79.0	111,000
44	62.4	78.0	101,700
46	60.8	76.8	93,400
48	59.1	75.6	86,100
50	57.4	74.3	79,400
55	52.9	70.6	65,300

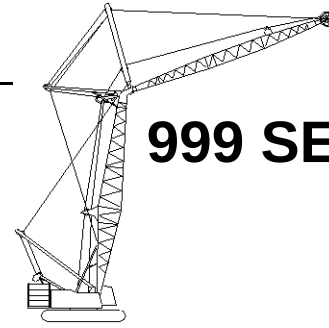
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	327,200 *
20	81.8	96.8	309,500 *
22	80.5	96.5	278,500 *
24	79.2	96.1	252,300 *
26	77.9	95.6	229,800 *
28	76.6	95.1	210,400 *
30	75.3	94.6	193,400 *
32	74.0	94.0	178,300 *
34	72.6	93.3	165,000 *
36	71.3	92.6	149,100
38	69.9	91.8	135,200
40	68.6	91.0	123,100
42	67.2	90.1	112,600
44	65.8	89.2	103,300
46	64.3	88.2	95,000
48	62.9	87.2	87,600
50	61.4	86.0	80,900
55	57.7	82.9	66,800
60	53.8	79.3	55,500
100 Ft. BOOM			
20	82.7	107.0	310,100 *
22	81.5	106.6	279,100 *
24	80.3	106.3	253,000 *
26	79.2	105.9	230,600 *
28	78.0	105.4	211,200 *
30	76.8	104.9	194,200 *
32	75.6	104.4	179,200 *
34	74.4	103.8	165,900 *
36	73.2	103.2	150,500
38	72.0	102.5	136,600
40	70.8	101.8	124,500
42	69.6	101.0	113,900
44	68.3	100.2	104,600
46	67.1	99.3	96,300
48	65.8	98.4	88,900
50	64.6	97.4	82,200
55	61.3	94.7	68,100
60	57.9	91.6	56,700
65	54.4	88.1	47,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	279,200 *
24	81.2	116.4	253,100 *
26	80.2	116.1	230,700 *
28	79.1	115.7	211,300 *
30	78.0	115.2	194,400 *
32	77.0	114.7	179,400 *
34	75.9	114.2	166,100 *
36	74.8	113.6	151,500
38	73.7	113.0	137,600
40	72.6	112.4	125,400
42	71.5	111.7	114,800
44	70.4	110.9	105,500
46	69.3	110.2	97,100
48	68.2	109.3	89,700
50	67.0	108.5	83,000
55	64.1	106.1	68,800
60	61.2	103.4	57,500
65	58.1	100.3	48,200
70	55.0	96.8	40,400
75	51.7	93.0	33,900
120 Ft. BOOM			
22	82.9	126.9	279,400 *
24	82.0	126.6	253,300 *
26	81.0	126.2	230,900 *
28	80.0	125.9	211,600 *
30	79.1	125.5	194,600 *
32	78.1	125.0	179,700 *
34	77.1	124.5	166,400 *
36	76.1	124.0	152,400
38	75.1	123.5	138,300
40	74.1	122.9	126,200
42	73.1	122.2	115,600
44	72.1	121.6	106,200
46	71.1	120.9	97,800
48	70.1	120.1	90,400
50	69.1	119.3	83,700
55	66.5	117.2	69,500
60	63.8	114.7	58,100
65	61.1	112.0	48,800
70	58.3	109.0	41,100
75	55.4	105.6	34,500
80	52.4	101.8	28,800

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	247,100 *
26	81.7	136.4	231,200 *
28	80.8	136.0	211,900 *
30	79.9	135.7	185,800
32	79.0	135.3	163,700
34	78.1	134.8	145,300
36	77.2	134.3	129,700
38	76.3	133.8	116,300
40	75.4	133.3	104,700
42	74.5	132.7	94,600
44	73.5	132.1	85,600
46	72.6	131.5	77,700
48	71.7	130.8	70,600
50	70.7	130.1	64,200
55	68.4	128.1	50,600
60	66.0	125.9	39,800
65	63.5	123.4	30,900
70	61.0	120.7	23,500
75	58.4	117.6	17,300
80	55.8	114.3	11,900
140 Ft. BOOM			
26	82.3	146.5	229,400 *
28	81.5	146.2	211,900 *
30	80.6	145.8	186,500
32	79.8	145.5	164,300
34	79.0	145.1	145,900
36	78.1	144.6	130,300
38	77.3	144.1	116,900
40	76.4	143.6	105,300
42	75.6	143.1	95,100
44	74.7	142.5	86,200
46	73.9	141.9	78,200
48	73.0	141.3	71,100
50	72.2	140.7	64,700
55	70.0	138.9	51,100
60	67.8	136.8	40,300
65	65.5	134.6	31,400
70	63.3	132.1	24,000
75	60.9	129.3	17,700
80	58.5	126.3	12,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	205,600 *
28	82.0	156.3	200,000 *
30	81.3	156.0	187,100
32	80.5	155.6	164,800
34	79.7	155.3	146,300
36	78.9	154.8	130,700
38	78.2	154.4	117,200
40	77.4	153.9	105,600
42	76.6	153.5	95,400
44	75.8	152.9	86,400
46	75.0	152.4	78,400
48	74.2	151.8	71,300
50	73.4	151.2	64,800
55	71.4	149.5	51,200
60	69.4	147.6	40,300
65	67.3	145.6	31,400
70	65.2	143.3	24,000
75	63.0	140.8	17,700
80	60.9	138.0	12,300
160 Ft. BOOM			
28	82.5	166.4	191,600 *
30	81.8	166.1	186,400 *
32	81.1	165.8	165,100
34	80.4	165.4	146,600
36	79.6	165.1	130,900
38	78.9	164.6	117,400
40	78.2	164.2	105,800
42	77.4	163.7	95,600
44	76.7	163.3	86,600
46	76.0	162.7	78,600
48	75.2	162.2	71,400
50	74.5	161.6	65,000
55	72.6	160.1	51,300
60	70.7	158.3	40,400
65	68.8	156.4	31,500
70	66.8	154.3	24,100
75	64.9	152.0	17,800
80	62.9	149.4	12,400
170 Ft. BOOM			
28	83.0	176.5	176,100 *
30	82.3	176.2	172,000 *
32	81.6	175.9	165,500
34	80.9	175.6	147,000
36	80.3	175.2	131,200
38	79.6	174.9	117,800
40	78.9	174.4	106,100

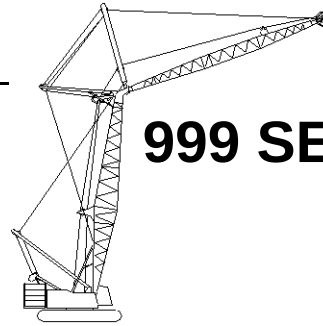
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
42	78.2	174.0	95,900
44	77.5	173.6	86,900
46	76.8	173.1	78,800
48	76.1	172.6	71,700
50	75.4	172.0	65,200
55	73.7	170.6	51,600
60	71.9	168.9	40,700
65	70.1	167.1	31,700
70	68.3	165.2	24,300
75	66.4	163.0	18,000
80	64.6	160.6	12,600
180 Ft. BOOM			
30	82.7	186.3	163,200 *
32	82.1	186.0	159,400 *
34	81.4	185.7	147,100
36	80.8	185.4	131,300
38	80.2	185.0	117,800
40	79.5	184.6	106,100
42	78.9	184.2	95,900
44	78.2	183.8	86,900
46	77.6	183.4	78,800
48	76.9	182.9	71,700
50	76.2	182.4	65,200
55	74.6	181.0	51,500
60	72.9	179.5	40,600
65	71.2	177.8	31,700
70	69.5	175.9	24,200
75	67.8	173.9	17,900
80	66.1	171.7	12,500
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	107,000
42	79.4	194.4	96,700
44	78.8	194.0	87,600
46	78.2	193.6	79,600
48	77.6	193.2	72,400
50	77.0	192.7	65,900
55	75.4	191.4	52,200
60	73.9	189.9	41,200
65	72.3	188.4	32,300
70	70.7	186.6	24,800
75	69.1	184.7	18,500
80	67.4	182.7	13,000



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	387,900 *
17	82.0	77.1	363,800 *
18	81.1	76.9	342,200 *
19	80.3	76.7	322,600 *
20	79.5	76.5	304,800 *
22	77.8	76.0	273,700 *
24	76.1	75.5	247,400 *
26	74.4	74.9	224,900 *
28	72.7	74.2	205,300 *
30	70.9	73.5	188,300 *
32	69.2	72.7	173,200 *
34	67.4	71.8	157,900
36	65.6	70.9	141,900
38	63.7	69.8	128,200
40	61.9	68.7	116,300
42	60.0	67.5	105,900
44	58.0	66.2	96,700
46	56.0	64.8	88,500
48	54.0	63.4	81,200
50	51.9	61.7	74,600
80 Ft. BOOM			
17	83.0	87.2	364,400 *
18	82.3	87.0	342,800 *
19	81.5	86.9	323,300 *
20	80.8	86.7	305,600 *
22	79.3	86.3	274,500 *
24	77.9	85.8	248,300 *
26	76.4	85.3	225,800 *
28	74.9	84.7	206,400 *
30	73.4	84.1	189,400 *
32	71.9	83.4	174,300 *
34	70.4	82.7	160,400
36	68.8	81.9	144,300
38	67.3	81.0	130,500
40	65.7	80.0	118,500
42	64.1	79.0	108,100
44	62.4	78.0	98,800
46	60.8	76.8	90,600
48	59.1	75.6	83,300
50	57.4	74.3	76,700
55	52.9	70.6	62,700

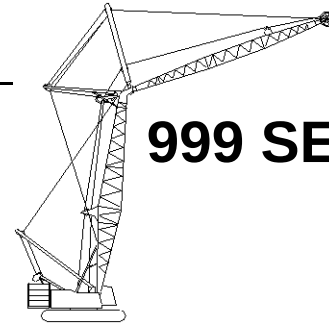
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	323,900 *
20	81.8	96.8	306,200 *
22	80.5	96.5	275,300 *
24	79.2	96.1	249,100 *
26	77.9	95.6	226,700 *
28	76.6	95.1	207,300 *
30	75.3	94.6	190,300 *
32	74.0	94.0	175,300 *
34	72.6	93.3	162,000 *
36	71.3	92.6	146,200
38	69.9	91.8	132,300
40	68.6	91.0	120,300
42	67.2	90.1	109,800
44	65.8	89.2	100,600
46	64.3	88.2	92,300
48	62.9	87.2	84,900
50	61.4	86.0	78,300
55	57.7	82.9	64,300
60	53.8	79.3	53,000
100 Ft. BOOM			
20	82.7	107.0	306,900 *
22	81.5	106.6	276,000 *
24	80.3	106.3	249,900 *
26	79.2	105.9	227,600 *
28	78.0	105.4	208,200 *
30	76.8	104.9	191,200 *
32	75.6	104.4	176,300 *
34	74.4	103.8	163,000 *
36	73.2	103.2	147,700
38	72.0	102.5	133,800
40	70.8	101.8	121,800
42	69.6	101.0	111,300
44	68.3	100.2	102,000
46	67.1	99.3	93,800
48	65.8	98.4	86,400
50	64.6	97.4	79,700
55	61.3	94.7	65,700
60	57.9	91.6	54,400
65	54.4	88.1	45,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	276,200 *
24	81.2	116.4	250,100 *
26	80.2	116.1	227,800 *
28	79.1	115.7	208,400 *
30	78.0	115.2	191,500 *
32	77.0	114.7	176,600 *
34	75.9	114.2	163,300 *
36	74.8	113.6	148,800
38	73.7	113.0	134,900
40	72.6	112.4	122,900
42	71.5	111.7	112,300
44	70.4	110.9	103,000
46	69.3	110.2	94,700
48	68.2	109.3	87,300
50	67.0	108.5	80,600
55	64.1	106.1	66,500
60	61.2	103.4	55,200
65	58.1	100.3	46,000
70	55.0	96.8	38,300
75	51.7	93.0	31,800
120 Ft. BOOM			
22	82.9	126.9	276,400 *
24	82.0	126.6	250,400 *
26	81.0	126.2	228,100 *
28	80.0	125.9	208,000
30	79.1	125.5	181,200
32	78.1	125.0	159,200
34	77.1	124.5	140,900
36	76.1	124.0	125,400
38	75.1	123.5	112,200
40	74.1	122.9	100,700
42	73.1	122.2	90,600
44	72.1	121.6	81,700
46	71.1	120.9	73,800
48	70.1	120.1	66,800
50	69.1	119.3	60,400
55	66.5	117.2	47,000
60	63.8	114.7	36,200
65	61.1	112.0	27,400
70	58.3	109.0	20,100
75	55.4	105.6	13,900

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	244,100 *
26	81.7	136.4	228,400 *
28	80.8	136.0	209,100 *
30	79.9	135.7	182,300
32	79.0	135.3	160,300
34	78.1	134.8	142,000
36	77.2	134.3	126,400
38	76.3	133.8	113,200
40	75.4	133.3	101,600
42	74.5	132.7	91,600
44	73.5	132.1	82,700
46	72.6	131.5	74,800
48	71.7	130.8	67,700
50	70.7	130.1	61,300
55	68.4	128.1	47,900
60	66.0	125.9	37,100
65	63.5	123.4	28,300
70	61.0	120.7	21,000
75	58.4	117.6	14,700
140 Ft. BOOM			
26	82.3	146.5	226,400 *
28	81.5	146.2	209,200 *
30	80.6	145.8	183,000
32	79.8	145.5	161,000
34	79.0	145.1	142,600
36	78.1	144.6	127,100
38	77.3	144.1	113,800
40	76.4	143.6	102,300
42	75.6	143.1	92,200
44	74.7	142.5	83,300
46	73.9	141.9	75,400
48	73.0	141.3	68,300
50	72.2	140.7	61,900
55	70.0	138.9	48,400
60	67.8	136.8	37,600
65	65.5	134.6	28,800
70	63.3	132.1	21,500
75	60.9	129.3	15,200
150 Ft. BOOM			
26	82.8	156.6	202,800 *
28	82.0	156.3	197,200 *
30	81.3	156.0	183,700
32	80.5	155.6	161,600
34	79.7	155.3	143,200
36	78.9	154.8	127,600
38	78.2	154.4	114,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
40	77.4	153.9	102,600
42	76.6	153.5	92,500
44	75.8	152.9	83,600
46	75.0	152.4	75,600
48	74.2	151.8	68,500
50	73.4	151.2	62,100
55	71.4	149.5	48,600
60	69.4	147.6	37,800
65	67.3	145.6	29,000
70	65.2	143.3	21,600
75	63.0	140.8	15,300
80	60.9	138.0	10,000
160 Ft. BOOM			
28	82.5	166.4	188,700 *
30	81.8	166.1	183,600 *
32	81.1	165.8	161,900
34	80.4	165.4	143,500
36	79.6	165.1	127,900
38	78.9	164.6	114,500
40	78.2	164.2	102,900
42	77.4	163.7	92,800
44	76.7	163.3	83,800
46	76.0	162.7	75,900
48	75.2	162.2	68,700
50	74.5	161.6	62,300
55	72.6	160.1	48,800
60	70.7	158.3	38,000
65	68.8	156.4	29,100
70	66.8	154.3	21,700
75	64.9	152.0	15,500
80	62.9	149.4	10,100
170 Ft. BOOM			
28	83.0	176.5	173,400 *
30	82.3	176.2	169,200 *
32	81.6	175.9	162,400
34	80.9	175.6	143,900
36	80.3	175.2	128,300
38	79.6	174.9	114,900
40	78.9	174.4	103,300
42	78.2	174.0	93,100
44	77.5	173.6	84,200
46	76.8	173.1	76,200

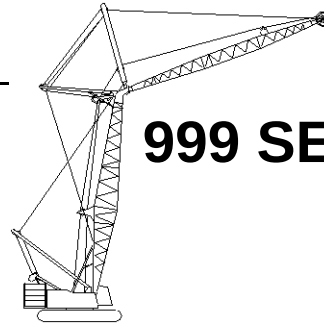
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
48	76.1	172.6	69,100
50	75.4	172.0	62,600
55	73.7	170.6	49,100
60	71.9	168.9	38,300
65	70.1	167.1	29,400
70	68.3	165.2	22,000
75	66.4	163.0	15,700
80	64.6	160.6	10,400
180 Ft. BOOM			
30	82.7	186.3	160,500 *
32	82.1	186.0	156,600 *
34	81.4	185.7	144,100
36	80.8	185.4	128,400
38	80.2	185.0	115,000
40	79.5	184.6	103,400
42	78.9	184.2	93,200
44	78.2	183.8	84,200
46	77.6	183.4	76,300
48	76.9	182.9	69,100
50	76.2	182.4	62,700
55	74.6	181.0	49,100
60	72.9	179.5	38,300
65	71.2	177.8	29,400
70	69.5	175.9	22,000
75	67.8	173.9	15,700
80	66.1	171.7	10,300
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	115,900
40	80.1	194.8	104,200
42	79.4	194.4	94,000
44	78.8	194.0	85,000
46	78.2	193.6	77,000
48	77.6	193.2	69,900
50	77.0	192.7	63,400
55	75.4	191.4	49,800
60	73.9	189.9	38,900
65	72.3	188.4	30,000
70	70.7	186.6	22,600
75	69.1	184.7	16,300
80	67.4	182.7	10,900



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	385,200 *
17	82.0	77.1	361,200 *
18	81.1	76.9	339,600 *
19	80.3	76.7	320,000 *
20	79.5	76.5	302,300 *
22	77.8	76.0	271,200 *
24	76.1	75.5	245,000 *
26	74.4	74.9	222,500 *
28	72.7	74.2	203,000 *
30	70.9	73.5	185,900 *
32	69.2	72.7	170,900 *
34	67.4	71.8	155,400
36	65.6	70.9	139,500
38	63.7	69.8	125,900
40	61.9	68.7	114,000
42	60.0	67.5	103,700
44	58.0	66.2	94,500
46	56.0	64.8	86,400
48	54.0	63.4	79,100
50	51.9	61.7	72,600
80 Ft. BOOM			
17	83.0	87.2	361,900 *
18	82.3	87.0	340,300 *
19	81.5	86.9	320,800 *
20	80.8	86.7	303,100 *
22	79.3	86.3	272,200 *
24	77.9	85.8	246,000 *
26	76.4	85.3	223,600 *
28	74.9	84.7	204,200 *
30	73.4	84.1	187,200 *
32	71.9	83.4	172,200 *
34	70.4	82.7	158,000
36	68.8	81.9	142,000
38	67.3	81.0	128,300
40	65.7	80.0	116,400
42	64.1	79.0	106,000
44	62.4	78.0	96,800
46	60.8	76.8	88,700
48	59.1	75.6	81,400
50	57.4	74.3	74,800
55	52.9	70.6	60,900

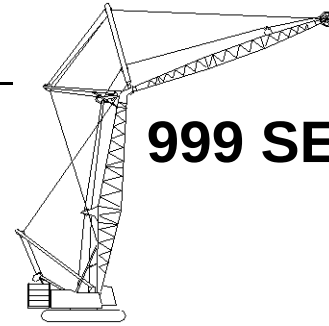
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	321,600 *
20	81.8	96.8	303,900 *
22	80.5	96.5	273,000 *
24	79.2	96.1	246,900 *
26	77.9	95.6	224,500 *
28	76.6	95.1	205,200 *
30	75.3	94.6	188,200 *
32	74.0	94.0	173,300 *
34	72.6	93.3	160,000 *
36	71.3	92.6	144,100
38	69.9	91.8	130,300
40	68.6	91.0	118,400
42	67.2	90.1	107,900
44	65.8	89.2	98,700
46	64.3	88.2	90,500
48	62.9	87.2	83,200
50	61.4	86.0	76,500
55	57.7	82.9	62,600
60	53.8	79.3	51,400
100 Ft. BOOM			
20	82.7	107.0	304,700 *
22	81.5	106.6	273,900 *
24	80.3	106.3	247,800 *
26	79.2	105.9	225,500 *
28	78.0	105.4	206,200 *
30	76.8	104.9	189,300 *
32	75.6	104.4	174,300 *
34	74.4	103.8	161,100 *
36	73.2	103.2	145,700
38	72.0	102.5	131,900
40	70.8	101.8	120,000
42	69.6	101.0	109,500
44	68.3	100.2	100,200
46	67.1	99.3	92,000
48	65.8	98.4	84,700
50	64.6	97.4	78,100
55	61.3	94.7	64,100
60	57.9	91.6	52,900
65	54.4	88.1	43,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	274,100 *
24	81.2	116.4	248,100 *
26	80.2	116.1	225,800 *
28	79.1	115.7	203,900
30	78.0	115.2	177,200
32	77.0	114.7	155,500
34	75.9	114.2	137,300
36	74.8	113.6	122,000
38	73.7	113.0	108,800
40	72.6	112.4	97,400
42	71.5	111.7	87,400
44	70.4	110.9	78,600
46	69.3	110.2	70,800
48	68.2	109.3	63,800
50	67.0	108.5	57,500
55	64.1	106.1	44,200
60	61.2	103.4	33,500
65	58.1	100.3	24,800
70	55.0	96.8	17,500
75	51.7	93.0	11,300
120 Ft. BOOM			
22	82.9	126.9	274,400 *
24	82.0	126.6	248,400 *
26	81.0	126.2	226,200 *
28	80.0	125.9	205,200
30	79.1	125.5	178,500
32	78.1	125.0	156,700
34	77.1	124.5	138,500
36	76.1	124.0	123,100
38	75.1	123.5	109,900
40	74.1	122.9	98,500
42	73.1	122.2	88,500
44	72.1	121.6	79,700
46	71.1	120.9	71,800
48	70.1	120.1	64,800
50	69.1	119.3	58,500
55	66.5	117.2	45,100
60	63.8	114.7	34,500
65	61.1	112.0	25,700
70	58.3	109.0	18,400
75	55.4	105.6	12,300

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	242,200 *
26	81.7	136.4	226,600 *
28	80.8	136.0	206,400
30	79.9	135.7	179,700
32	79.0	135.3	157,800
34	78.1	134.8	139,600
36	77.2	134.3	124,200
38	76.3	133.8	111,000
40	75.4	133.3	99,500
42	74.5	132.7	89,500
44	73.5	132.1	80,700
46	72.6	131.5	72,800
48	71.7	130.8	65,800
50	70.7	130.1	59,500
55	68.4	128.1	46,100
60	66.0	125.9	35,400
65	63.5	123.4	26,700
70	61.0	120.7	19,400
75	58.4	117.6	13,200
140 Ft. BOOM			
26	82.3	146.5	224,400 *
28	81.5	146.2	207,200
30	80.6	145.8	180,500
32	79.8	145.5	158,600
34	79.0	145.1	140,400
36	78.1	144.6	124,900
38	77.3	144.1	111,700
40	76.4	143.6	100,200
42	75.6	143.1	90,200
44	74.7	142.5	81,300
46	73.9	141.9	73,500
48	73.0	141.3	66,400
50	72.2	140.7	60,100
55	70.0	138.9	46,700
60	67.8	136.8	36,000
65	65.5	134.6	27,200
70	63.3	132.1	19,900
75	60.9	129.3	13,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	201,000 *
28	82.0	156.3	195,400 *
30	81.3	156.0	181,200
32	80.5	155.6	159,200
34	79.7	155.3	140,900
36	78.9	154.8	125,500
38	78.2	154.4	112,200
40	77.4	153.9	100,700
42	76.6	153.5	90,600
44	75.8	152.9	81,700
46	75.0	152.4	73,800
48	74.2	151.8	66,800
50	73.4	151.2	60,400
55	71.4	149.5	47,000
60	69.4	147.6	36,200
65	67.3	145.6	27,400
70	65.2	143.3	20,100
75	63.0	140.8	13,900
160 Ft. BOOM			
28	82.5	166.4	186,900 *
30	81.8	166.1	181,700 *
32	81.1	165.8	159,700
34	80.4	165.4	141,300
36	79.6	165.1	125,800
38	78.9	164.6	112,500
40	78.2	164.2	101,000
42	77.4	163.7	90,900
44	76.7	163.3	82,000
46	76.0	162.7	74,100
48	75.2	162.2	67,000
50	74.5	161.6	60,700
55	72.6	160.1	47,200
60	70.7	158.3	36,400
65	68.8	156.4	27,600
70	66.8	154.3	20,300
75	64.9	152.0	14,100
170 Ft. BOOM			
28	83.0	176.5	171,600 *
30	82.3	176.2	167,500 *
32	81.6	175.9	160,200
34	80.9	175.6	141,800
36	80.3	175.2	126,300
38	79.6	174.9	112,900
40	78.9	174.4	101,400

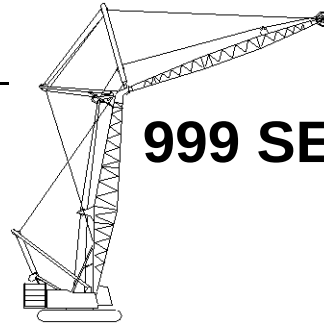
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
42	78.2	174.0	91,300
44	77.5	173.6	82,400
46	76.8	173.1	74,500
48	76.1	172.6	67,400
50	75.4	172.0	61,000
55	73.7	170.6	47,500
60	71.9	168.9	36,800
65	70.1	167.1	27,900
70	68.3	165.2	20,600
75	66.4	163.0	14,400
180 Ft. BOOM			
30	82.7	186.3	158,700 *
32	82.1	186.0	154,900 *
34	81.4	185.7	142,000
36	80.8	185.4	126,400
38	80.2	185.0	113,100
40	79.5	184.6	101,600
42	78.9	184.2	91,400
44	78.2	183.8	82,500
46	77.6	183.4	74,600
48	76.9	182.9	67,500
50	76.2	182.4	61,100
55	74.6	181.0	47,600
60	72.9	179.5	36,800
65	71.2	177.8	28,000
70	69.5	175.9	20,600
75	67.8	173.9	14,400
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	114,000
40	80.1	194.8	102,500
42	79.4	194.4	92,300
44	78.8	194.0	83,400
46	78.2	193.6	75,400
48	77.6	193.2	68,300
50	77.0	192.7	61,900
55	75.4	191.4	48,300
60	73.9	189.9	37,500
65	72.3	188.4	28,700
70	70.7	186.6	21,300
75	69.1	184.7	15,000



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	381,400 *
17	82.0	77.1	357,400 *
18	81.1	76.9	335,800 *
19	80.3	76.7	316,300 *
20	79.5	76.5	298,500 *
22	77.8	76.0	267,500 *
24	76.1	75.5	241,300 *
26	74.4	74.9	218,800 *
28	72.7	74.2	199,400 *
30	70.9	73.5	182,300 *
32	69.2	72.7	167,300 *
34	67.4	71.8	151,800
36	65.6	70.9	136,000
38	63.7	69.8	122,400
40	61.9	68.7	110,700
42	60.0	67.5	100,400
44	58.0	66.2	91,300
46	56.0	64.8	83,200
48	54.0	63.4	76,000
50	51.9	61.7	69,500
80 Ft. BOOM			
17	83.0	87.2	358,200 *
18	82.3	87.0	336,700 *
19	81.5	86.9	317,200 *
20	80.8	86.7	299,600 *
22	79.3	86.3	268,700 *
24	77.9	85.8	242,500 *
26	76.4	85.3	220,100 *
28	74.9	84.7	200,700 *
30	73.4	84.1	183,800 *
32	71.9	83.4	168,800 *
34	70.4	82.7	154,700
36	68.8	81.9	138,700
38	67.3	81.0	125,100
40	65.7	80.0	113,300
42	64.1	79.0	102,900
44	62.4	78.0	93,800
46	60.8	76.8	85,700
48	59.1	75.6	78,400
50	57.4	74.3	71,900
55	52.9	70.6	58,100

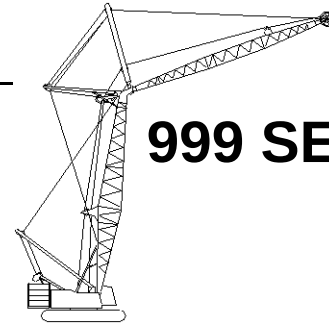
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	318,100 *
20	81.8	96.8	300,500 *
22	80.5	96.5	269,700 *
24	79.2	96.1	243,600 *
26	77.9	95.6	221,300 *
28	76.6	95.1	201,900 *
30	75.3	94.6	185,000 *
32	74.0	94.0	170,100 *
34	72.6	93.3	156,800 *
36	71.3	92.6	141,000
38	69.9	91.8	127,300
40	68.6	91.0	115,400
42	67.2	90.1	105,000
44	65.8	89.2	95,800
46	64.3	88.2	87,700
48	62.9	87.2	80,400
50	61.4	86.0	73,800
55	57.7	82.9	60,000
60	53.8	79.3	48,900
100 Ft. BOOM			
20	82.7	107.0	301,400 *
22	81.5	106.6	270,600 *
24	80.3	106.3	244,600 *
26	79.2	105.9	222,300 *
28	78.0	105.4	197,900
30	76.8	104.9	171,500
32	75.6	104.4	150,000
34	74.4	103.8	132,000
36	73.2	103.2	116,800
38	72.0	102.5	103,800
40	70.8	101.8	92,500
42	69.6	101.0	82,600
44	68.3	100.2	73,900
46	67.1	99.3	66,200
48	65.8	98.4	59,200
50	64.6	97.4	53,000
55	61.3	94.7	39,800
60	57.9	91.6	29,300
65	54.4	88.1	20,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	270,900 *
24	81.2	116.4	245,000 *
26	80.2	116.1	222,700 *
28	79.1	115.7	199,700
30	78.0	115.2	173,200
32	77.0	114.7	151,600
34	75.9	114.2	133,600
36	74.8	113.6	118,300
38	73.7	113.0	105,300
40	72.6	112.4	93,900
42	71.5	111.7	84,000
44	70.4	110.9	75,300
46	69.3	110.2	67,500
48	68.2	109.3	60,500
50	67.0	108.5	54,300
55	64.1	106.1	41,000
60	61.2	103.4	30,500
65	58.1	100.3	21,800
70	55.0	96.8	14,600
120 Ft. BOOM			
22	82.9	126.9	271,300 *
24	82.0	126.6	245,400 *
26	81.0	126.2	223,200 *
28	80.0	125.9	201,100
30	79.1	125.5	174,600
32	78.1	125.0	152,900
34	77.1	124.5	134,900
36	76.1	124.0	119,600
38	75.1	123.5	106,500
40	74.1	122.9	95,100
42	73.1	122.2	85,200
44	72.1	121.6	76,400
46	71.1	120.9	68,600
48	70.1	120.1	61,700
50	69.1	119.3	55,400
55	66.5	117.2	42,100
60	63.8	114.7	31,500
65	61.1	112.0	22,900
70	58.3	109.0	15,600

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	239,100 *
26	81.7	136.4	223,700 *
28	80.8	136.0	202,500
30	79.9	135.7	175,900
32	79.0	135.3	154,200
34	78.1	134.8	136,100
36	77.2	134.3	120,800
38	76.3	133.8	107,700
40	75.4	133.3	96,300
42	74.5	132.7	86,300
44	73.5	132.1	77,600
46	72.6	131.5	69,700
48	71.7	130.8	62,800
50	70.7	130.1	56,500
55	68.4	128.1	43,200
60	66.0	125.9	32,600
65	63.5	123.4	23,900
70	61.0	120.7	16,700
75	58.4	117.6	10,500
140 Ft. BOOM			
26	82.3	146.5	221,300 *
28	81.5	146.2	203,400
30	80.6	145.8	176,800
32	79.8	145.5	155,100
34	79.0	145.1	136,900
36	78.1	144.6	121,600
38	77.3	144.1	108,500
40	76.4	143.6	97,100
42	75.6	143.1	87,100
44	74.7	142.5	78,300
46	73.9	141.9	70,500
48	73.0	141.3	63,500
50	72.2	140.7	57,200
55	70.0	138.9	43,900
60	67.8	136.8	33,300
65	65.5	134.6	24,600
70	63.3	132.1	17,300
75	60.9	129.3	11,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	198,000 *
28	82.0	156.3	192,400 *
30	81.3	156.0	177,600
32	80.5	155.6	155,800
34	79.7	155.3	137,600
36	78.9	154.8	122,200
38	78.2	154.4	109,000
40	77.4	153.9	97,600
42	76.6	153.5	87,600
44	75.8	152.9	78,800
46	75.0	152.4	70,900
48	74.2	151.8	63,900
50	73.4	151.2	57,600
55	71.4	149.5	44,200
60	69.4	147.6	33,600
65	67.3	145.6	24,800
70	65.2	143.3	17,600
75	63.0	140.8	11,400
160 Ft. BOOM			
28	82.5	166.4	183,900 *
30	81.8	166.1	178,200
32	81.1	165.8	156,300
34	80.4	165.4	138,100
36	79.6	165.1	122,700
38	78.9	164.6	109,400
40	78.2	164.2	98,000
42	77.4	163.7	88,000
44	76.7	163.3	79,100
46	76.0	162.7	71,300
48	75.2	162.2	64,200
50	74.5	161.6	57,900
55	72.6	160.1	44,500
60	70.7	158.3	33,900
65	68.8	156.4	25,100
70	66.8	154.3	17,800
75	64.9	152.0	11,600
170 Ft. BOOM			
28	83.0	176.5	168,800 *
30	82.3	176.2	164,600 *
32	81.6	175.9	156,800
34	80.9	175.6	138,600
36	80.3	175.2	123,200
38	79.6	174.9	109,900
40	78.9	174.4	98,500

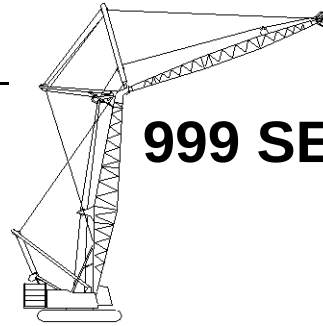
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
42	78.2	174.0	88,400
44	77.5	173.6	79,600
46	76.8	173.1	71,700
48	76.1	172.6	64,700
50	75.4	172.0	58,300
55	73.7	170.6	44,900
60	71.9	168.9	34,200
65	70.1	167.1	25,500
70	68.3	165.2	18,200
75	66.4	163.0	12,000
180 Ft. BOOM			
30	82.7	186.3	155,800 *
32	82.1	186.0	152,000 *
34	81.4	185.7	138,900
36	80.8	185.4	123,400
38	80.2	185.0	110,200
40	79.5	184.6	98,700
42	78.9	184.2	88,600
44	78.2	183.8	79,700
46	77.6	183.4	71,900
48	76.9	182.9	64,800
50	76.2	182.4	58,500
55	74.6	181.0	45,100
60	72.9	179.5	34,300
65	71.2	177.8	25,600
70	69.5	175.9	18,200
75	67.8	173.9	12,100
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	111,100
40	80.1	194.8	99,600
42	79.4	194.4	89,500
44	78.8	194.0	80,600
46	78.2	193.6	72,700
48	77.6	193.2	65,700
50	77.0	192.7	59,300
55	75.4	191.4	45,800
60	73.9	189.9	35,100
65	72.3	188.4	26,300
70	70.7	186.6	19,000
75	69.1	184.7	12,700



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	377,800 *
17	82.0	77.1	353,800 *
18	81.1	76.9	332,300 *
19	80.3	76.7	312,800 *
20	79.5	76.5	295,100 *
22	77.8	76.0	264,100 *
24	76.1	75.5	237,900 *
26	74.4	74.9	215,500 *
28	72.7	74.2	196,100 *
30	70.9	73.5	179,100 *
32	69.2	72.7	164,100 *
34	67.4	71.8	148,400
36	65.6	70.9	132,700
38	63.7	69.8	119,200
40	61.9	68.7	107,600
42	60.0	67.5	97,300
44	58.0	66.2	88,300
46	56.0	64.8	80,300
48	54.0	63.4	73,100
50	51.9	61.7	66,600
80 Ft. BOOM			
17	83.0	87.2	354,800 *
18	82.3	87.0	333,300 *
19	81.5	86.9	313,900 *
20	80.8	86.7	296,300 *
22	79.3	86.3	265,400 *
24	77.9	85.8	239,300 *
26	76.4	85.3	217,000 *
28	74.9	84.7	197,600 *
30	73.4	84.1	180,700 *
32	71.9	83.4	165,800 *
34	70.4	82.7	151,500
36	68.8	81.9	135,700
38	67.3	81.0	122,100
40	65.7	80.0	110,400
42	64.1	79.0	100,100
44	62.4	78.0	91,000
46	60.8	76.8	83,000
48	59.1	75.6	75,800
50	57.4	74.3	69,300
55	52.9	70.6	55,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	314,900 *
20	81.8	96.8	297,300 *
22	80.5	96.5	266,600 *
24	79.2	96.1	240,500 *
26	77.9	95.6	218,300 *
28	76.6	95.1	191,300
30	75.3	94.6	165,200
32	74.0	94.0	143,800
34	72.6	93.3	126,000
36	71.3	92.6	111,000
38	69.9	91.8	98,100
40	68.6	91.0	86,900
42	67.2	90.1	77,100
44	65.8	89.2	68,500
46	64.3	88.2	60,800
48	62.9	87.2	54,000
50	61.4	86.0	47,800
55	57.7	82.9	34,700
60	53.8	79.3	24,300
100 Ft. BOOM			
20	82.7	107.0	298,300 *
22	81.5	106.6	267,600 *
24	80.3	106.3	241,700 *
26	79.2	105.9	219,500 *
28	78.0	105.4	193,800
30	76.8	104.9	167,600
32	75.6	104.4	146,200
34	74.4	103.8	128,400
36	73.2	103.2	113,300
38	72.0	102.5	100,400
40	70.8	101.8	89,200
42	69.6	101.0	79,400
44	68.3	100.2	70,700
46	67.1	99.3	63,000
48	65.8	98.4	56,200
50	64.6	97.4	50,000
55	61.3	94.7	36,900
60	57.9	91.6	26,500
65	54.4	88.1	17,900

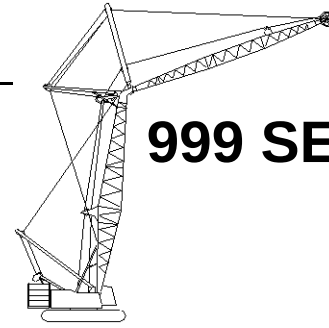
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	268,000 *
24	81.2	116.4	242,100 *
26	80.2	116.1	220,000 *
28	79.1	115.7	195,800
30	78.0	115.2	169,500
32	77.0	114.7	148,000
34	75.9	114.2	130,100
36	74.8	113.6	115,000
38	73.7	113.0	102,000
40	72.6	112.4	90,700
42	71.5	111.7	80,900
44	70.4	110.9	72,200
46	69.3	110.2	64,500
48	68.2	109.3	57,600
50	67.0	108.5	51,400
55	64.1	106.1	38,300
60	61.2	103.4	27,800
65	58.1	100.3	19,200
70	55.0	96.8	12,000
120 Ft. BOOM			
22	82.9	126.9	268,500 *
24	82.0	126.6	242,600 *
26	81.0	126.2	220,500 *
28	80.0	125.9	197,300
30	79.1	125.5	171,000
32	78.1	125.0	149,500
34	77.1	124.5	131,500
36	76.1	124.0	116,300
38	75.1	123.5	103,300
40	74.1	122.9	92,100
42	73.1	122.2	82,200
44	72.1	121.6	73,500
46	71.1	120.9	65,800
48	70.1	120.1	58,800
50	69.1	119.3	52,600
55	66.5	117.2	39,500
60	63.8	114.7	28,900
65	61.1	112.0	20,300
70	58.3	109.0	13,200



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82 or 22EL
Luffing Jib No. 135
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

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	236,300 *
26	81.7	136.4	221,000 *
28	80.8	136.0	198,800
30	79.9	135.7	172,400
32	79.0	135.3	150,800
34	78.1	134.8	132,900
36	77.2	134.3	117,700
38	76.3	133.8	104,600
40	75.4	133.3	93,300
42	74.5	132.7	83,500
44	73.5	132.1	74,700
46	72.6	131.5	67,000
48	71.7	130.8	60,100
50	70.7	130.1	53,800
55	68.4	128.1	40,600
60	66.0	125.9	30,100
65	63.5	123.4	21,500
70	61.0	120.7	14,300
140 Ft. BOOM			
26	82.3	146.5	218,500 *
28	81.5	146.2	199,800
30	80.6	145.8	173,400
32	79.8	145.5	151,800
34	79.0	145.1	133,800
36	78.1	144.6	118,600
38	77.3	144.1	105,500
40	76.4	143.6	94,200
42	75.6	143.1	84,300
44	74.7	142.5	75,600
46	73.9	141.9	67,800
48	73.0	141.3	60,900
50	72.2	140.7	54,600
55	70.0	138.9	41,400
60	67.8	136.8	30,900
65	65.5	134.6	22,200
70	63.3	132.1	15,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	195,400 *
28	82.0	156.3	189,800 *
30	81.3	156.0	174,300
32	80.5	155.6	152,600
34	79.7	155.3	134,600
36	78.9	154.8	119,300
38	78.2	154.4	106,200
40	77.4	153.9	94,800
42	76.6	153.5	84,900
44	75.8	152.9	76,100
46	75.0	152.4	68,300
48	74.2	151.8	61,400
50	73.4	151.2	55,100
55	71.4	149.5	41,800
60	69.4	147.6	31,300
65	67.3	145.6	22,600
70	65.2	143.3	15,400
160 Ft. BOOM			
28	82.5	166.4	181,200 *
30	81.8	166.1	174,900
32	81.1	165.8	153,200
34	80.4	165.4	135,100
36	79.6	165.1	119,800
38	78.9	164.6	106,600
40	78.2	164.2	95,300
42	77.4	163.7	85,300
44	76.7	163.3	76,500
46	76.0	162.7	68,700
48	75.2	162.2	61,800
50	74.5	161.6	55,500
55	72.6	160.1	42,200
60	70.7	158.3	31,600
65	68.8	156.4	22,900
70	66.8	154.3	15,700
170 Ft. BOOM			
28	83.0	176.5	166,300 *
30	82.3	176.2	162,100 *
32	81.6	175.9	153,800
34	80.9	175.6	135,700
36	80.3	175.2	120,300
38	79.6	174.9	107,200
40	78.9	174.4	95,800
42	78.2	174.0	85,800
44	77.5	173.6	77,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
46	76.8	173.1	69,200
48	76.1	172.6	62,200
50	75.4	172.0	56,000
55	73.7	170.6	42,700
60	71.9	168.9	32,000
65	70.1	167.1	23,300
70	68.3	165.2	16,100
75	66.4	163.0	10,000
180 Ft. BOOM			
30	82.7	186.3	153,300 *
32	82.1	186.0	149,400 *
34	81.4	185.7	136,000
36	80.8	185.4	120,600
38	80.2	185.0	107,500
40	79.5	184.6	96,100
42	78.9	184.2	86,100
44	78.2	183.8	77,300
46	77.6	183.4	69,400
48	76.9	182.9	62,400
50	76.2	182.4	56,100
55	74.6	181.0	42,800
60	72.9	179.5	32,200
65	71.2	177.8	23,500
70	69.5	175.9	16,200
75	67.8	173.9	10,100
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	108,500
40	80.1	194.8	97,100
42	79.4	194.4	87,100
44	78.8	194.0	78,200
46	78.2	193.6	70,400
48	77.6	193.2	63,300
50	77.0	192.7	57,000
55	75.4	191.4	43,700
60	73.9	189.9	33,000
65	72.3	188.4	24,200
70	70.7	186.6	17,000
75	69.1	184.7	10,800