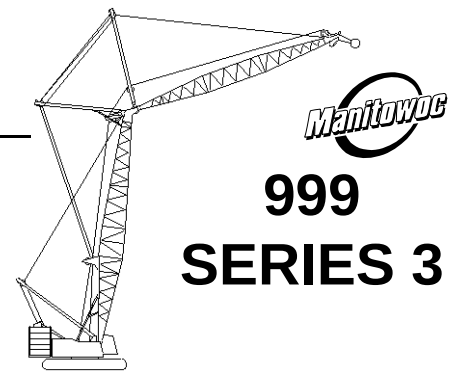




Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

999
SERIES 3

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 (*).

Consult Luffing Jib Raising Procedure chart **No. 8422-A** for Maximum Number of Lower Boom Point Sheaves (Layout Jack-Knife Method table, column A).

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 3,900 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. A01031**, Wire Rope Specification chart **No. 8393-A** and Luffing Jib Raising Procedure chart **No. 8422-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. 8360-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.

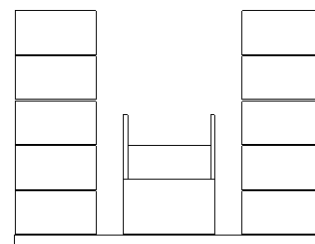
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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, 9 part luffing jib hoist reeving, luffing jib straps, two 1-1/2 in. luffing jib backstay pendants, 219,600 Lb. crane counterweight, two 22,000 Lb. and two 18,000 Lb. carbody counterweights.

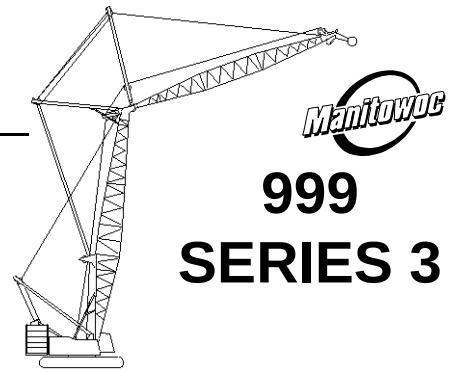
Consult chart **No. 8420-A** for main luffing jib capacities. Consult chart **No. 8349-A** for intermediate fall capacities.

Fixed jib No. 134 must be removed before use of this chart.

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 - 240	168 Degrees



219,600 Lb. Crane Counterweight
10 Side Boxes - 1 Center Box



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

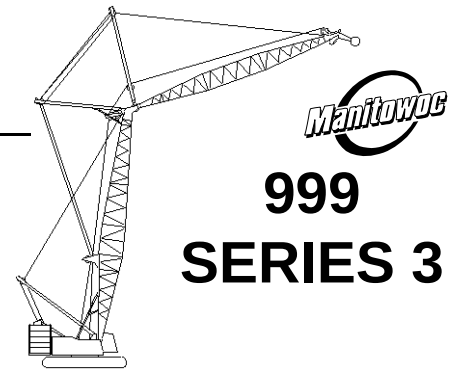
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	408,800 *
18	82.3	87.1	396,100 *
19	81.5	87.0	375,100 *
20	80.8	86.8	356,100 *
22	79.3	86.4	322,800 *
24	77.9	85.9	294,600 *
26	76.4	85.4	270,500 *
28	74.9	84.8	249,600 *
30	73.4	84.2	231,300 *
32	71.9	83.5	215,100 *
34	70.4	82.7	200,000
90 Ft. BOOM			
19	82.5	97.1	375,000 *
20	81.8	96.9	356,000 *
22	80.5	96.6	322,700 *
24	79.2	96.2	294,500 *
26	77.9	95.7	270,400 *
28	76.6	95.2	249,500 *
30	75.3	94.6	231,200 *
32	74.0	94.0	215,100 *
34	72.6	93.4	200,700 *
36	71.3	92.7	182,100
100 Ft. BOOM			
20	82.7	107.0	333,100 *
22	81.5	106.7	323,000 *
24	80.3	106.4	294,900 *
26	79.2	105.9	270,800 *
28	78.0	105.5	249,900 *
30	76.8	105.0	231,600 *
32	75.6	104.5	215,500 *
34	74.4	103.9	201,100 *
36	73.2	103.3	183,000
38	72.0	102.6	166,900
40	70.8	101.9	153,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	302,000 *
24	81.2	116.5	294,500 *
26	80.2	116.2	270,400 *
28	79.1	115.7	249,500 *
30	78.0	115.3	231,200 *
32	77.0	114.8	215,100 *
34	75.9	114.3	200,800 *
36	74.8	113.7	183,400
38	73.7	113.1	167,300
40	72.6	112.5	153,300
42	71.5	111.8	141,100
44	70.4	111.0	130,300
120 Ft. BOOM			
22	82.9	127.0	292,500 *
24	82.0	126.7	286,600 *
26	81.0	126.3	270,500 *
28	80.0	125.9	249,600 *
30	79.1	125.5	231,300 *
32	78.1	125.1	215,200 *
34	77.1	124.6	200,900 *
36	76.1	124.1	184,000
38	75.1	123.5	167,800
40	74.1	123.0	153,800
42	73.1	122.3	141,500
44	72.1	121.7	130,700
46	71.1	121.0	121,100
48	70.1	120.2	112,500
130 Ft. BOOM			
24	82.6	136.8	265,500 *
26	81.7	136.5	257,900 *
28	80.8	136.1	249,500 *
30	79.9	135.7	231,200 *
32	79.0	135.3	215,100 *
34	78.1	134.9	200,800 *
36	77.2	134.4	184,400
38	76.3	133.9	168,200
40	75.4	133.4	154,100
42	74.5	132.8	141,800
44	73.5	132.2	131,000
46	72.6	131.5	121,300
48	71.7	130.9	112,700
50	70.7	130.1	105,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
26	82.3	146.6	251,200 *
28	81.5	146.3	243,900 *
30	80.6	145.9	231,200 *
32	79.8	145.5	215,100 *
34	79.0	145.1	200,700 *
36	78.1	144.7	184,700
38	77.3	144.2	168,500
40	76.4	143.7	154,400
42	75.6	143.2	142,100
44	74.7	142.6	131,200
46	73.9	142.0	121,600
48	73.0	141.4	113,000
50	72.2	140.7	105,200
150 Ft. BOOM			
26	82.8	156.7	224,700 *
28	82.0	156.4	218,900 *
30	81.3	156.1	213,200 *
32	80.5	155.7	207,700 *
34	79.7	155.3	198,500 *
36	78.9	154.9	184,800
38	78.2	154.5	168,500
40	77.4	154.0	154,400
42	76.6	153.5	142,100
44	75.8	153.0	131,200
46	75.0	152.5	121,500
48	74.2	151.9	112,900
50	73.4	151.3	105,100
55	71.4	149.6	88,600
160 Ft. BOOM			
28	82.5	166.5	211,600 *
30	81.8	166.2	206,100 *
32	81.1	165.9	200,700 *
34	80.4	165.5	193,800 *
36	79.6	165.1	180,600 *
38	78.9	164.7	168,700
40	78.2	164.3	154,500
42	77.4	163.8	142,200
44	76.7	163.3	131,300
46	76.0	162.8	121,600
48	75.2	162.3	112,900
50	74.5	161.7	105,100
55	72.6	160.2	88,600
60	70.7	158.4	75,400



Liftcrane Boom Capacities With Luffing Jib Attached

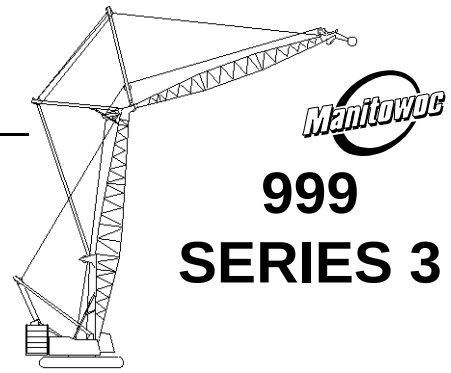
New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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
170 Ft. BOOM			
28	83.0	176.6	194,400 *
30	82.3	176.3	189,900 *
32	81.6	176.0	185,500 *
34	80.9	175.7	181,200 *
36	80.3	175.3	176,600 *
38	79.6	174.9	165,100 *
40	78.9	174.5	154,600
42	78.2	174.1	142,200
44	77.5	173.6	131,300
46	76.8	173.1	121,600
48	76.1	172.6	112,900
50	75.4	172.1	105,100
55	73.7	170.6	88,600
60	71.9	169.0	75,400
65	70.1	167.2	64,600
180 Ft. BOOM			
30	82.7	186.4	182,200 *
32	82.1	186.1	178,000 *
34	81.4	185.8	173,800 *
36	80.8	185.5	169,700 *
38	80.2	185.1	161,300 *
40	79.5	184.7	151,200 *
42	78.9	184.3	142,100 *
44	78.2	183.9	131,300
46	77.6	183.4	121,600
48	76.9	183.0	112,900
50	76.2	182.5	105,000
55	74.6	181.1	88,500
60	72.9	179.6	75,300
65	71.2	177.9	64,500

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	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	118,000 *
42	79.4	194.5	116,200
44	78.8	194.1	105,900
46	78.2	193.7	96,700
48	77.6	193.2	88,500
50	77.0	192.8	81,200
55	75.4	191.5	65,600
60	73.9	190.0	53,100
65	72.3	188.4	42,900
70	70.7	186.7	34,400



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

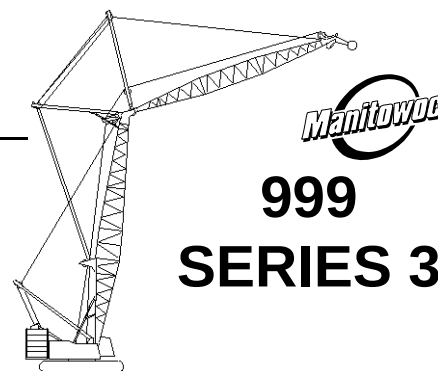
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	404,900 *
18	82.3	87.1	396,200 *
19	81.5	87.0	375,100 *
20	80.8	86.8	355,900 *
22	79.3	86.4	322,400 *
24	77.9	85.9	294,000 *
26	76.4	85.4	269,600 *
28	74.9	84.8	248,600 *
30	73.4	84.2	230,100 *
32	71.9	83.5	213,900 *
34	70.4	82.7	198,300
36	68.8	81.9	179,500
38	67.3	81.1	163,400
40	65.7	80.1	149,400
90 Ft. BOOM			
19	82.5	97.1	375,100 *
20	81.8	96.9	355,900 *
22	80.5	96.6	322,400 *
24	79.2	96.2	294,100 *
26	77.9	95.7	269,700 *
28	76.6	95.2	248,700 *
30	75.3	94.6	230,300 *
32	74.0	94.0	214,000 *
34	72.6	93.4	199,600 *
36	71.3	92.7	180,700
38	69.9	91.9	164,500
40	68.6	91.1	150,500
42	67.2	90.2	138,200
44	65.8	89.3	127,400
100 Ft. BOOM			
20	82.7	107.0	329,700 *
22	81.5	106.7	322,100 *
24	80.3	106.4	294,500 *
26	79.2	105.9	270,200 *
28	78.0	105.5	249,200 *
30	76.8	105.0	230,800 *
32	75.6	104.5	214,500 *
34	74.4	103.9	200,100 *
36	73.2	103.3	181,800
38	72.0	102.6	165,600
40	70.8	101.9	151,600
42	69.6	101.1	139,300
44	68.3	100.3	128,400
46	67.1	99.4	118,800
48	65.8	98.5	110,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	298,800 *
24	81.2	116.5	292,100 *
26	80.2	116.2	270,000 *
28	79.1	115.7	248,900 *
30	78.0	115.3	230,500 *
32	77.0	114.8	214,300 *
34	75.9	114.3	199,900 *
36	74.8	113.7	182,400
38	73.7	113.1	166,200
40	72.6	112.5	152,100
42	71.5	111.8	139,700
44	70.4	111.0	128,800
46	69.3	110.3	119,200
48	68.2	109.4	110,500
50	67.0	108.6	102,700
120 Ft. BOOM			
22	82.9	127.0	289,600 *
24	82.0	126.7	283,600 *
26	81.0	126.3	270,200 *
28	80.0	125.9	249,100 *
30	79.1	125.5	230,700 *
32	78.1	125.1	214,500 *
34	77.1	124.6	200,100 *
36	76.1	124.1	183,100
38	75.1	123.5	166,800
40	74.1	123.0	152,700
42	73.1	122.3	140,300
44	72.1	121.7	129,400
46	71.1	121.0	119,700
48	70.1	120.2	111,100
50	69.1	119.4	103,300
55	66.5	117.3	86,800
130 Ft. BOOM			
24	82.6	136.8	263,700 *
26	81.7	136.5	256,000 *
28	80.8	136.1	248,500 *
30	79.9	135.7	230,700 *
32	79.0	135.3	214,500 *
34	78.1	134.9	200,000 *
36	77.2	134.4	183,600
38	76.3	133.9	167,300
40	75.4	133.4	153,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	140,800
44	73.5	132.2	129,900
46	72.6	131.5	120,100
48	71.7	130.9	111,500
50	70.7	130.1	103,600
55	68.4	128.2	87,100
60	66.0	126.0	73,900
140 Ft. BOOM			
26	82.3	146.6	249,200 *
28	81.5	146.3	241,900 *
30	80.6	145.9	230,700 *
32	79.8	145.5	214,500 *
34	79.0	145.1	200,100 *
36	78.1	144.7	184,100
38	77.3	144.2	167,700
40	76.4	143.7	153,600
42	75.6	143.2	141,200
44	74.7	142.6	130,200
46	73.9	142.0	120,500
48	73.0	141.4	111,800
50	72.2	140.7	104,000
55	70.0	138.9	87,400
60	67.8	136.9	74,200
65	65.5	134.7	63,400
150 Ft. BOOM			
26	82.8	156.7	222,800 *
28	82.0	156.4	216,900 *
30	81.3	156.1	211,200 *
32	80.5	155.7	205,700 *
34	79.7	155.3	197,800 *
36	78.9	154.9	184,200 *
38	78.2	154.5	167,900
40	77.4	154.0	153,700
42	76.6	153.5	141,300
44	75.8	153.0	130,300
46	75.0	152.5	120,500
48	74.2	151.9	111,800
50	73.4	151.3	104,000
55	71.4	149.6	87,400
60	69.4	147.7	74,100
65	67.3	145.6	63,300
70	65.2	143.4	54,200



999

SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

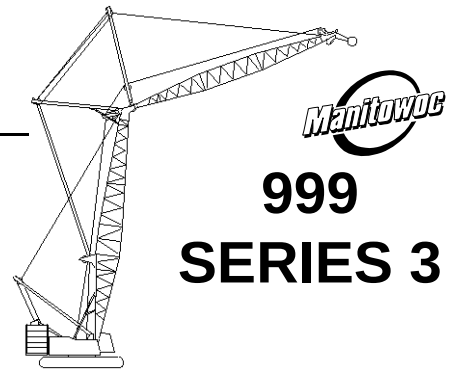
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	209,700 *
30	81.8	166.2	204,100 *
32	81.1	165.9	198,700 *
34	80.4	165.5	193,200 *
36	79.6	165.1	179,800 *
38	78.9	164.7	168,000 *
40	78.2	164.3	153,900
42	77.4	163.8	141,400
44	76.7	163.3	130,400
46	76.0	162.8	120,700
48	75.2	162.3	111,900
50	74.5	161.7	104,100
55	72.6	160.2	87,500
60	70.7	158.4	74,200
65	68.8	156.5	63,300
70	66.8	154.4	54,300
170 Ft. BOOM			
28	83.0	176.6	192,500 *
30	82.3	176.3	188,000 *
32	81.6	176.0	183,600 *
34	80.9	175.7	179,300 *
36	80.3	175.3	174,900 *
38	79.6	174.9	164,300 *
40	78.9	174.5	153,900 *
42	78.2	174.1	141,500
44	77.5	173.6	130,500
46	76.8	173.1	120,800
48	76.1	172.6	112,000
50	75.4	172.1	104,100
55	73.7	170.6	87,500
60	71.9	169.0	74,200
65	70.1	167.2	63,300
70	68.3	165.3	54,200
75	66.4	163.1	46,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	180,300 *
32	82.1	186.1	176,100 *
34	81.4	185.8	171,900 *
36	80.8	185.5	156,500
38	80.2	185.1	140,900
40	79.5	184.7	127,400
42	78.9	184.3	115,700
44	78.2	183.9	105,300
46	77.6	183.4	96,000
48	76.9	183.0	87,800
50	76.2	182.5	80,300
55	74.6	181.1	64,600
60	72.9	179.6	52,100
65	71.2	177.9	41,800
70	69.5	176.0	33,300
75	67.8	174.0	26,000
80	66.1	171.8	19,800
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	118,000 *
42	79.4	194.5	115,500
44	78.8	194.1	105,100
46	78.2	193.7	95,800
48	77.6	193.2	87,500
50	77.0	192.8	80,000
55	75.4	191.5	64,300
60	73.9	190.0	51,700
65	72.3	188.4	41,400
70	70.7	186.7	32,800
75	69.1	184.8	25,600
80	67.4	182.7	19,400
85	65.8	180.5	14,000



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

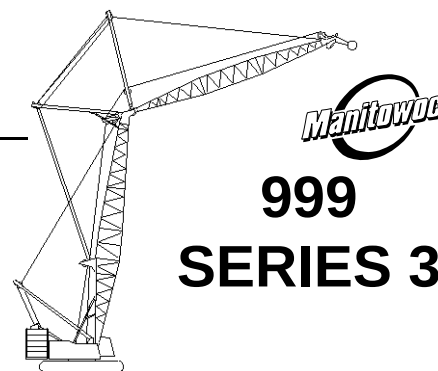
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	402,100 *
18	82.3	87.1	391,900 *
19	81.5	87.0	370,900 *
20	80.8	86.8	351,800 *
22	79.3	86.4	318,500 *
24	77.9	85.9	290,200 *
26	76.4	85.4	266,000 *
28	74.9	84.8	245,100 *
30	73.4	84.2	226,700 *
32	71.9	83.5	210,600 *
34	70.4	82.7	193,900
36	68.8	81.9	175,300
38	67.3	81.1	159,300
40	65.7	80.1	145,500
90 Ft. BOOM			
19	82.5	97.1	371,000 *
20	81.8	96.9	351,900 *
22	80.5	96.6	318,600 *
24	79.2	96.2	290,400 *
26	77.9	95.7	266,200 *
28	76.6	95.2	245,300 *
30	75.3	94.6	227,000 *
32	74.0	94.0	210,800 *
34	72.6	93.4	195,200
36	71.3	92.7	176,500
38	69.9	91.9	160,500
40	68.6	91.1	146,700
42	67.2	90.2	134,500
44	65.8	89.3	123,800
100 Ft. BOOM			
20	82.7	107.0	327,200 *
22	81.5	106.7	319,100 *
24	80.3	106.4	290,900 *
26	79.2	105.9	266,800 *
28	78.0	105.5	245,900 *
30	76.8	105.0	227,500 *
32	75.6	104.5	211,400 *
34	74.4	103.9	196,500
36	73.2	103.3	177,800
38	72.0	102.6	161,800
40	70.8	101.9	147,900
42	69.6	101.1	135,700
44	68.3	100.3	125,000
46	67.1	99.4	115,400
48	65.8	98.5	106,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	296,500 *
24	81.2	116.5	289,800 *
26	80.2	116.2	266,600 *
28	79.1	115.7	245,700 *
30	78.0	115.3	227,400 *
32	77.0	114.8	211,200 *
34	75.9	114.3	196,900 *
36	74.8	113.7	178,500
38	73.7	113.1	162,400
40	72.6	112.5	148,400
42	71.5	111.8	136,200
44	70.4	111.0	125,500
46	69.3	110.3	115,900
48	68.2	109.4	107,400
50	67.0	108.6	99,700
120 Ft. BOOM			
22	82.9	127.0	287,500 *
24	82.0	126.7	281,500 *
26	81.0	126.3	266,800 *
28	80.0	125.9	245,900 *
30	79.1	125.5	227,600 *
32	78.1	125.1	211,500 *
34	77.1	124.6	197,200 *
36	76.1	124.1	179,200
38	75.1	123.5	163,100
40	74.1	123.0	149,100
42	73.1	122.3	136,900
44	72.1	121.7	126,100
46	71.1	121.0	116,600
48	70.1	120.2	108,000
50	69.1	119.4	100,300
55	66.5	117.3	84,000
130 Ft. BOOM			
24	82.6	136.8	262,500 *
26	81.7	136.5	254,700 *
28	80.8	136.1	245,900 *
30	79.9	135.7	227,600 *
32	79.0	135.3	211,500 *
34	78.1	134.9	197,200 *
36	77.2	134.4	179,800
38	76.3	133.9	163,700
40	75.4	133.4	149,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	137,400
44	73.5	132.2	126,600
46	72.6	131.5	117,000
48	71.7	130.9	108,400
50	70.7	130.1	100,700
55	68.4	128.2	84,400
60	66.0	126.0	71,300
140 Ft. BOOM			
26	82.3	146.6	247,900 *
28	81.5	146.3	240,500 *
30	80.6	145.9	227,700 *
32	79.8	145.5	211,600 *
34	79.0	145.1	197,300 *
36	78.1	144.7	180,400
38	77.3	144.2	164,200
40	76.4	143.7	150,200
42	75.6	143.2	137,900
44	74.7	142.6	127,100
46	73.9	142.0	117,400
48	73.0	141.4	108,800
50	72.2	140.7	101,100
55	70.0	138.9	84,700
60	67.8	136.9	71,600
65	65.5	134.7	60,900
150 Ft. BOOM			
26	82.8	156.7	221,500 *
28	82.0	156.4	215,700 *
30	81.3	156.1	210,000 *
32	80.5	155.7	204,400 *
34	79.7	155.3	193,400 *
36	78.9	154.9	180,000 *
38	78.2	154.5	164,400
40	77.4	154.0	150,300
42	76.6	153.5	138,000
44	75.8	153.0	127,200
46	75.0	152.5	117,500
48	74.2	151.9	108,900
50	73.4	151.3	101,100
55	71.4	149.6	84,700
60	69.4	147.7	71,600
65	67.3	145.6	60,900
70	65.2	143.4	51,900



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

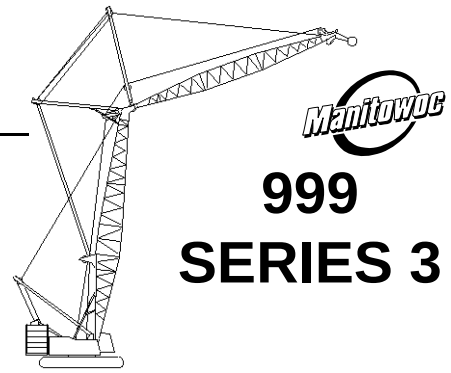
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	208,400 *
30	81.8	166.2	202,800 *
32	81.1	165.9	197,400 *
34	80.4	165.5	188,800 *
36	79.6	165.1	175,700 *
38	78.9	164.7	164,000 *
40	78.2	164.3	150,600
42	77.4	163.8	138,200
44	76.7	163.3	127,400
46	76.0	162.8	117,700
48	75.2	162.3	109,000
50	74.5	161.7	101,300
55	72.6	160.2	84,800
60	70.7	158.4	71,700
65	68.8	156.5	61,000
70	66.8	154.4	52,000
170 Ft. BOOM			
28	83.0	176.6	191,300 *
30	82.3	176.3	186,800 *
32	81.6	176.0	182,300 *
34	80.9	175.7	169,600
36	80.3	175.3	151,800
38	79.6	174.9	136,400
40	78.9	174.5	123,200
42	78.2	174.1	111,600
44	77.5	173.6	101,300
46	76.8	173.1	92,200
48	76.1	172.6	84,100
50	75.4	172.1	76,800
55	73.7	170.6	61,300
60	71.9	169.0	49,000
65	70.1	167.2	38,900
70	68.3	165.3	30,500
75	66.4	163.1	23,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	179,100 *
32	82.1	186.1	174,800 *
34	81.4	185.8	169,800
36	80.8	185.5	161,900
38	80.2	185.1	151,900
40	79.5	184.7	143,300
42	78.9	184.3	134,600
44	78.2	183.9	126,400
46	77.6	183.4	118,600
48	76.9	183.0	111,100
50	76.2	182.5	104,000
55	74.6	181.1	87,300
60	72.9	179.6	73,000
65	71.2	177.9	61,000
70	69.5	176.0	50,400
75	67.8	174.0	41,200
80	66.1	171.8	33,100
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	118,000 *
42	79.4	194.5	111,500
44	78.8	194.1	104,200
46	78.2	193.7	97,100
48	77.6	193.2	90,200
50	77.0	192.8	83,500
55	75.4	191.5	70,000
60	73.9	190.0	58,600
65	72.3	188.4	49,400
70	70.7	186.7	41,400
75	69.1	184.8	34,400
80	67.4	182.7	28,400
85	65.8	180.5	23,400



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

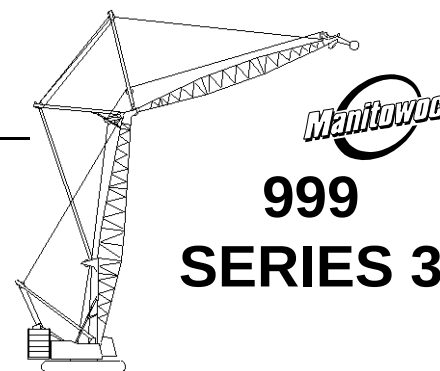
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	397,500 *
18	82.3	87.1	392,900 *
19	81.5	87.0	373,500 *
20	80.8	86.8	354,200 *
22	79.3	86.4	320,300 *
24	77.9	85.9	291,600 *
26	76.4	85.4	267,000 *
28	74.9	84.8	245,800 *
30	73.4	84.2	227,100 *
32	71.9	83.5	210,700 *
34	70.4	82.7	194,200
36	68.8	81.9	175,200
38	67.3	81.1	159,000
40	65.7	80.1	144,900
90 Ft. BOOM			
19	82.5	97.1	373,800 *
20	81.8	96.9	354,400 *
22	80.5	96.6	320,600 *
24	79.2	96.2	292,000 *
26	77.9	95.7	267,500 *
28	76.6	95.2	246,200 *
30	75.3	94.6	227,600 *
32	74.0	94.0	211,200 *
34	72.6	93.4	195,900
36	71.3	92.7	176,900
38	69.9	91.9	160,600
40	68.6	91.1	146,500
42	67.2	90.2	134,100
44	65.8	89.3	123,200
100 Ft. BOOM			
20	82.7	107.0	323,200 *
22	81.5	106.7	315,300 *
24	80.3	106.4	292,700 *
26	79.2	105.9	268,200 *
28	78.0	105.5	246,900 *
30	76.8	105.0	228,400 *
32	75.6	104.5	212,000 *
34	74.4	103.9	197,400 *
36	73.2	103.3	178,500
38	72.0	102.6	162,100
40	70.8	101.9	148,000
42	69.6	101.1	135,600
44	68.3	100.3	124,700
46	67.1	99.4	115,000
48	65.8	98.5	106,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	292,800 *
24	81.2	116.5	285,800 *
26	80.2	116.2	268,100 *
28	79.1	115.7	246,900 *
30	78.0	115.3	228,300 *
32	77.0	114.8	212,000 *
34	75.9	114.3	197,400 *
36	74.8	113.7	179,400
38	73.7	113.1	163,000
40	72.6	112.5	148,800
42	71.5	111.8	136,400
44	70.4	111.0	125,400
46	69.3	110.3	115,700
48	68.2	109.4	107,000
50	67.0	108.6	99,100
120 Ft. BOOM			
22	82.9	127.0	284,100 *
24	82.0	126.7	278,000 *
26	81.0	126.3	268,500 *
28	80.0	125.9	247,300 *
30	79.1	125.5	228,700 *
32	78.1	125.1	212,400 *
34	77.1	124.6	197,800 *
36	76.1	124.1	180,400
38	75.1	123.5	163,900
40	74.1	123.0	149,700
42	73.1	122.3	137,300
44	72.1	121.7	126,300
46	71.1	121.0	116,500
48	70.1	120.2	107,800
50	69.1	119.4	99,900
55	66.5	117.3	83,400
130 Ft. BOOM			
24	82.6	136.8	260,200 *
26	81.7	136.5	252,500 *
28	80.8	136.1	244,900 *
30	79.9	135.7	228,800 *
32	79.0	135.3	212,500 *
34	78.1	134.9	197,900 *
36	77.2	134.4	181,100
38	76.3	133.9	164,700
40	75.4	133.4	150,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	138,000
44	73.5	132.2	127,000
46	72.6	131.5	117,200
48	71.7	130.9	108,400
50	70.7	130.1	100,500
55	68.4	128.2	83,900
60	66.0	126.0	70,600
140 Ft. BOOM			
26	82.3	146.6	245,600 *
28	81.5	146.3	238,200 *
30	80.6	145.9	229,000 *
32	79.8	145.5	212,600 *
34	79.0	145.1	198,100 *
36	78.1	144.7	181,800
38	77.3	144.2	165,300
40	76.4	143.7	151,000
42	75.6	143.2	138,600
44	74.7	142.6	127,500
46	73.9	142.0	117,700
48	73.0	141.4	109,000
50	72.2	140.7	101,100
55	70.0	138.9	84,400
60	67.8	136.9	71,100
65	65.5	134.7	60,200
150 Ft. BOOM			
26	82.8	156.7	219,300 *
28	82.0	156.4	213,400 *
30	81.3	156.1	207,700 *
32	80.5	155.7	202,200 *
34	79.7	155.3	195,200 *
36	78.9	154.9	181,400 *
38	78.2	154.5	165,600
40	77.4	154.0	151,300
42	76.6	153.5	138,800
44	75.8	153.0	127,800
46	75.0	152.5	117,900
48	74.2	151.9	109,100
50	73.4	151.3	101,200
55	71.4	149.6	84,500
60	69.4	147.7	71,200
65	67.3	145.6	60,200
70	65.2	143.4	51,100



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

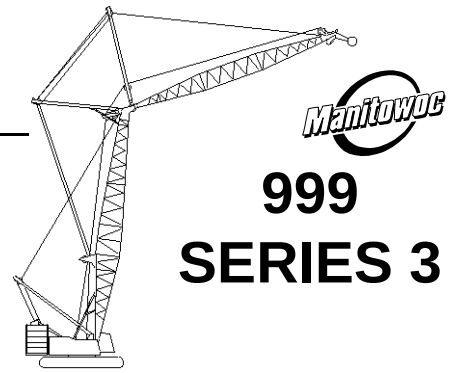
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	206,100 *
30	81.8	166.2	200,500 *
32	81.1	165.9	193,500
34	80.4	165.5	171,900
36	79.6	165.1	153,600
38	78.9	164.7	138,000
40	78.2	164.3	124,400
42	77.4	163.8	112,600
44	76.7	163.3	102,100
46	76.0	162.8	92,800
48	75.2	162.3	84,500
50	74.5	161.7	77,000
55	72.6	160.2	61,200
60	70.7	158.4	48,600
65	68.8	156.5	38,200
70	66.8	154.4	29,600
170 Ft. BOOM			
28	83.0	176.6	189,100 *
30	82.3	176.3	184,500 *
32	81.6	176.0	180,100 *
34	80.9	175.7	172,200
36	80.3	175.3	153,900
38	79.6	174.9	138,300
40	78.9	174.5	124,700
42	78.2	174.1	112,800
44	77.5	173.6	102,300
46	76.8	173.1	93,000
48	76.1	172.6	84,600
50	75.4	172.1	77,100
55	73.7	170.6	61,300
60	71.9	169.0	48,700
65	70.1	167.2	38,300
70	68.3	165.3	29,700
75	66.4	163.1	22,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	176,800 *
32	82.1	186.1	172,500 *
34	81.4	185.8	168,300 *
36	80.8	185.5	154,200
38	80.2	185.1	138,500
40	79.5	184.7	124,800
42	78.9	184.3	112,900
44	78.2	183.9	102,400
46	77.6	183.4	93,100
48	76.9	183.0	84,800
50	76.2	182.5	77,300
55	74.6	181.1	61,400
60	72.9	179.6	48,700
65	71.2	177.9	38,300
70	69.5	176.0	29,700
75	67.8	174.0	22,400
80	66.1	171.8	16,100
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	118,000 *
42	79.4	194.5	112,900
44	78.8	194.1	102,400
46	78.2	193.7	93,000
48	77.6	193.2	84,600
50	77.0	192.8	77,100
55	75.4	191.5	61,200
60	73.9	190.0	48,500
65	72.3	188.4	38,100
70	70.7	186.7	29,400
75	69.1	184.8	22,100
80	67.4	182.7	15,800
85	65.8	180.5	10,300



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

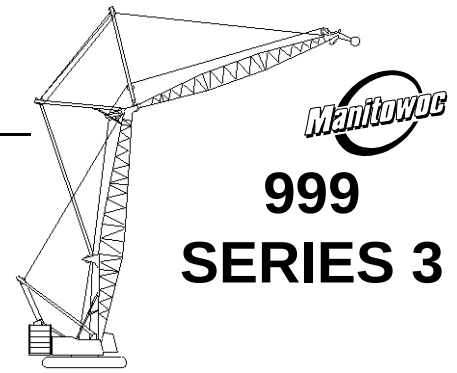
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	394,000 *
18	82.3	87.1	389,400 *
19	81.5	87.0	370,700 *
20	80.8	86.8	351,400 *
22	79.3	86.4	317,600 *
24	77.9	85.9	289,000 *
26	76.4	85.4	264,500 *
28	74.9	84.8	243,300 *
30	73.4	84.2	224,700 *
32	71.9	83.5	208,300 *
34	70.4	82.7	190,900
36	68.8	81.9	172,100
38	67.3	81.1	156,000
40	65.7	80.1	142,000
90 Ft. BOOM			
19	82.5	97.1	371,000 *
20	81.8	96.9	351,700 *
22	80.5	96.6	318,000 *
24	79.2	96.2	289,500 *
26	77.9	95.7	265,000 *
28	76.6	95.2	243,800 *
30	75.3	94.6	225,300 *
32	74.0	94.0	208,900 *
34	72.6	93.4	192,800
36	71.3	92.7	173,900
38	69.9	91.9	157,700
40	68.6	91.1	143,700
42	67.2	90.2	131,400
44	65.8	89.3	120,600
100 Ft. BOOM			
20	82.7	107.0	320,100 *
22	81.5	106.7	312,100 *
24	80.3	106.4	290,200 *
26	79.2	105.9	265,800 *
28	78.0	105.5	244,600 *
30	76.8	105.0	226,100 *
32	75.6	104.5	209,800 *
34	74.4	103.9	194,500
36	73.2	103.3	175,600
38	72.0	102.6	159,400
40	70.8	101.9	145,300
42	69.6	101.1	133,000
44	68.3	100.3	122,200
46	67.1	99.4	112,500
48	65.8	98.5	103,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	289,900 *
24	81.2	116.5	282,900 *
26	80.2	116.2	265,800 *
28	79.1	115.7	244,700 *
30	78.0	115.3	226,200 *
32	77.0	114.8	209,800 *
34	75.9	114.3	195,300 *
36	74.8	113.7	176,600
38	73.7	113.1	160,300
40	72.6	112.5	146,200
42	71.5	111.8	133,900
44	70.4	111.0	123,000
46	69.3	110.3	113,300
48	68.2	109.4	104,700
50	67.0	108.6	96,900
120 Ft. BOOM			
22	82.9	127.0	281,500 *
24	82.0	126.7	275,400 *
26	81.0	126.3	266,200 *
28	80.0	125.9	245,100 *
30	79.1	125.5	226,600 *
32	78.1	125.1	210,300 *
34	77.1	124.6	195,800 *
36	76.1	124.1	177,600
38	75.1	123.5	161,300
40	74.1	123.0	147,200
42	73.1	122.3	134,800
44	72.1	121.7	123,900
46	71.1	121.0	114,300
48	70.1	120.2	105,600
50	69.1	119.4	97,800
55	66.5	117.3	81,300
130 Ft. BOOM			
24	82.6	136.8	258,600 *
26	81.7	136.5	250,800 *
28	80.8	136.1	243,300 *
30	79.9	135.7	226,700 *
32	79.0	135.3	210,400 *
34	78.1	134.9	195,900 *
36	77.2	134.4	178,500
38	76.3	133.9	162,100
40	75.4	133.4	148,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	135,600
44	73.5	132.2	124,700
46	72.6	131.5	114,900
48	71.7	130.9	106,300
50	70.7	130.1	98,400
55	68.4	128.2	81,900
60	66.0	126.0	68,700
140 Ft. BOOM			
26	82.3	146.6	243,800 *
28	81.5	146.3	236,500 *
30	80.6	145.9	227,000 *
32	79.8	145.5	210,700 *
34	79.0	145.1	196,200 *
36	78.1	144.7	179,200
38	77.3	144.2	162,800
40	76.4	143.7	148,700
42	75.6	143.2	136,200
44	74.7	142.6	125,300
46	73.9	142.0	115,600
48	73.0	141.4	106,900
50	72.2	140.7	99,000
55	70.0	138.9	82,500
60	67.8	136.9	69,200
65	65.5	134.7	58,400
150 Ft. BOOM			
26	82.8	156.7	217,600 *
28	82.0	156.4	211,800 *
30	81.3	156.1	206,000 *
32	80.5	155.7	189,400
34	79.7	155.3	168,000
36	78.9	154.9	150,000
38	78.2	154.5	134,500
40	77.4	154.0	121,100
42	76.6	153.5	109,300
44	75.8	153.0	99,000
46	75.0	152.5	89,800
48	74.2	151.9	81,500
50	73.4	151.3	74,100
55	71.4	149.6	58,500
60	69.4	147.7	46,000
65	67.3	145.6	35,800
70	65.2	143.4	27,200



Liftcrane Boom Capacities With Luffing Jib Attached

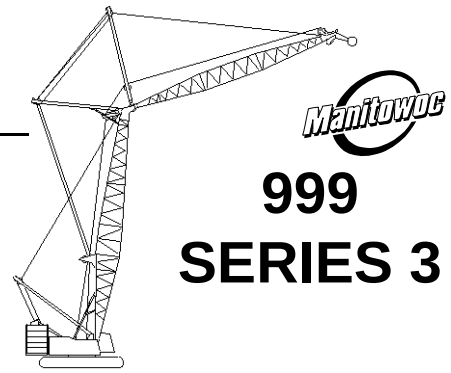
New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	204,400 *
30	81.8	166.2	198,800 *
32	81.1	165.9	189,900
34	80.4	165.5	168,500
36	79.6	165.1	150,400
38	78.9	164.7	134,900
40	78.2	164.3	121,500
42	77.4	163.8	109,700
44	76.7	163.3	99,300
46	76.0	162.8	90,100
48	75.2	162.3	81,900
50	74.5	161.7	74,400
55	72.6	160.2	58,800
60	70.7	158.4	46,300
65	68.8	156.5	36,000
70	66.8	154.4	27,500
170 Ft. BOOM			
28	83.0	176.6	187,400 *
30	82.3	176.3	182,900 *
32	81.6	176.0	178,500 *
34	80.9	175.7	168,900
36	80.3	175.3	150,800
38	79.6	174.9	135,200
40	78.9	174.5	121,800
42	78.2	174.1	110,000
44	77.5	173.6	99,600
46	76.8	173.1	90,300
48	76.1	172.6	82,100
50	75.4	172.1	74,600
55	73.7	170.6	58,900
60	71.9	169.0	46,400
65	70.1	167.2	36,100
70	68.3	165.3	27,600
75	66.4	163.1	20,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	175,100 *
32	82.1	186.1	170,900 *
34	81.4	185.8	166,700 *
36	80.8	185.5	151,000
38	80.2	185.1	135,500
40	79.5	184.7	122,000
42	78.9	184.3	110,200
44	78.2	183.9	99,800
46	77.6	183.4	90,500
48	76.9	183.0	82,200
50	76.2	182.5	74,800
55	74.6	181.1	59,100
60	72.9	179.6	46,500
65	71.2	177.9	36,200
70	69.5	176.0	27,600
75	67.8	174.0	20,400
80	66.1	171.8	14,200
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	118,000 *
42	79.4	194.5	110,200
44	78.8	194.1	99,700
46	78.2	193.7	90,400
48	77.6	193.2	82,100
50	77.0	192.8	74,700
55	75.4	191.5	58,900
60	73.9	190.0	46,300
65	72.3	188.4	36,000
70	70.7	186.7	27,400
75	69.1	184.8	20,100
80	67.4	182.7	13,900
85	65.8	180.5	8,500



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

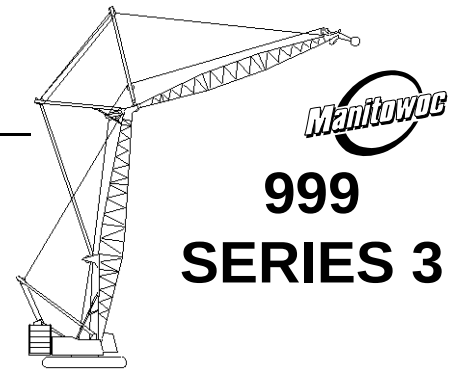
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	388,500 *
18	82.3	87.1	383,800 *
19	81.5	87.0	365,800 *
20	80.8	86.8	346,600 *
22	79.3	86.4	313,000 *
24	77.9	85.9	284,500 *
26	76.4	85.4	260,100 *
28	74.9	84.8	239,000 *
30	73.4	84.2	220,500 *
32	71.9	83.5	204,200 *
34	70.4	82.7	185,300
36	68.8	81.9	166,700
38	67.3	81.1	150,800
40	65.7	80.1	137,000
90 Ft. BOOM			
19	82.5	97.1	366,300 *
20	81.8	96.9	347,100 *
22	80.5	96.6	313,500 *
24	79.2	96.2	285,100 *
26	77.9	95.7	260,800 *
28	76.6	95.2	239,700 *
30	75.3	94.6	221,200 *
32	74.0	94.0	204,900 *
34	72.6	93.4	187,500
36	71.3	92.7	168,800
38	69.9	91.9	152,800
40	68.6	91.1	138,900
42	67.2	90.2	126,800
44	65.8	89.3	116,100
100 Ft. BOOM			
20	82.7	107.0	315,200 *
22	81.5	106.7	307,100 *
24	80.3	106.4	286,000 *
26	79.2	105.9	261,700 *
28	78.0	105.5	240,600 *
30	76.8	105.0	222,200 *
32	75.6	104.5	205,900 *
34	74.4	103.9	189,300
36	73.2	103.3	170,600
38	72.0	102.6	154,600
40	70.8	101.9	140,700
42	69.6	101.1	128,500
44	68.3	100.3	117,800
46	67.1	99.4	108,200
48	65.8	98.5	99,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	285,300 *
24	81.2	116.5	278,200 *
26	80.2	116.2	261,800 *
28	79.1	115.7	240,700 *
30	78.0	115.3	222,300 *
32	77.0	114.8	206,100 *
34	75.9	114.3	190,600
36	74.8	113.7	171,800
38	73.7	113.1	155,700
40	72.6	112.5	141,800
42	71.5	111.8	129,600
44	70.4	111.0	118,800
46	69.3	110.3	109,200
48	68.2	109.4	100,700
50	67.0	108.6	92,900
120 Ft. BOOM			
22	82.9	127.0	277,300 *
24	82.0	126.7	271,200 *
26	81.0	126.3	262,300 *
28	80.0	125.9	241,200 *
30	79.1	125.5	222,800 *
32	78.1	125.1	206,600 *
34	77.1	124.6	191,800
36	76.1	124.1	173,000
38	75.1	123.5	156,800
40	74.1	123.0	142,900
42	73.1	122.3	130,600
44	72.1	121.7	119,800
46	71.1	121.0	110,200
48	70.1	120.2	101,700
50	69.1	119.4	93,900
55	66.5	117.3	77,700
130 Ft. BOOM			
24	82.6	136.8	254,900 *
26	81.7	136.5	248,000 *
28	80.8	136.1	240,500 *
30	79.9	135.7	223,000 *
32	79.0	135.3	206,800 *
34	78.1	134.9	192,400 *
36	77.2	134.4	173,900
38	76.3	133.9	157,700
40	75.4	133.4	143,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	131,500
44	73.5	132.2	120,700
46	72.6	131.5	111,000
48	71.7	130.9	102,400
50	70.7	130.1	94,700
55	68.4	128.2	78,400
60	66.0	126.0	65,300
140 Ft. BOOM			
26	82.3	146.6	240,900 *
28	81.5	146.3	233,600 *
30	80.6	145.9	207,900
32	79.8	145.5	182,700
34	79.0	145.1	161,700
36	78.1	144.7	143,900
38	77.3	144.2	128,600
40	76.4	143.7	115,400
42	75.6	143.2	103,900
44	74.7	142.6	93,700
46	73.9	142.0	84,600
48	73.0	141.4	76,500
50	72.2	140.7	69,200
55	70.0	138.9	53,900
60	67.8	136.9	41,600
65	65.5	134.7	31,500
150 Ft. BOOM			
26	82.8	156.7	214,900 *
28	82.0	156.4	209,000 *
30	81.3	156.1	203,300 *
32	80.5	155.7	183,300
34	79.7	155.3	162,200
36	78.9	154.9	144,300
38	78.2	154.5	129,000
40	77.4	154.0	115,800
42	76.6	153.5	104,200
44	75.8	153.0	94,000
46	75.0	152.5	84,900
48	74.2	151.9	76,800
50	73.4	151.3	69,500
55	71.4	149.6	54,000
60	69.4	147.7	41,700
65	67.3	145.6	31,600
70	65.2	143.4	23,200



Liftcrane Boom Capacities With Luffing Jib Attached

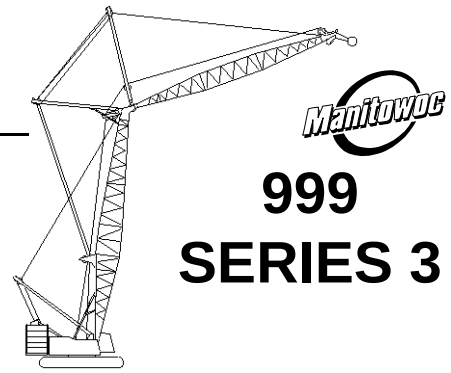
New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	201,500 *
30	81.8	166.2	196,000 *
32	81.1	165.9	183,900
34	80.4	165.5	162,800
36	79.6	165.1	144,900
38	78.9	164.7	129,600
40	78.2	164.3	116,300
42	77.4	163.8	104,700
44	76.7	163.3	94,400
46	76.0	162.8	85,300
48	75.2	162.3	77,200
50	74.5	161.7	69,900
55	72.6	160.2	54,400
60	70.7	158.4	42,100
65	68.8	156.5	32,000
70	66.8	154.4	23,600
170 Ft. BOOM			
28	83.0	176.6	184,700 *
30	82.3	176.3	180,200 *
32	81.6	176.0	175,800 *
34	80.9	175.7	163,200
36	80.3	175.3	145,300
38	79.6	174.9	130,000
40	78.9	174.5	116,700
42	78.2	174.1	105,000
44	77.5	173.6	94,800
46	76.8	173.1	85,700
48	76.1	172.6	77,500
50	75.4	172.1	70,200
55	73.7	170.6	54,700
60	71.9	169.0	42,300
65	70.1	167.2	32,200
70	68.3	165.3	23,700
75	66.4	163.1	16,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	172,400 *
32	82.1	186.1	168,100 *
34	81.4	185.8	163,600
36	80.8	185.5	145,600
38	80.2	185.1	130,300
40	79.5	184.7	117,000
42	78.9	184.3	105,300
44	78.2	183.9	95,000
46	77.6	183.4	85,900
48	76.9	183.0	77,700
50	76.2	182.5	70,400
55	74.6	181.1	54,900
60	72.9	179.6	42,500
65	71.2	177.9	32,300
70	69.5	176.0	23,900
75	67.8	174.0	16,700
80	66.1	171.8	10,600
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	117,000
42	79.4	194.5	105,400
44	78.8	194.1	95,100
46	78.2	193.7	85,900
48	77.6	193.2	77,700
50	77.0	192.8	70,300
55	75.4	191.5	54,800
60	73.9	190.0	42,300
65	72.3	188.4	32,100
70	70.7	186.7	23,700
75	69.1	184.8	16,500
80	67.4	182.7	10,300
85	65.8	180.5	5,000



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

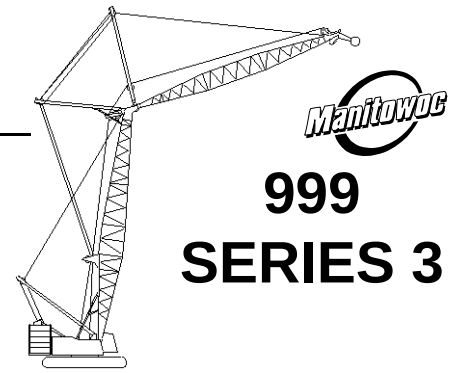
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	385,200 *
18	82.3	87.1	380,400 *
19	81.5	87.0	371,300 *
20	80.8	86.8	351,600 *
22	79.3	86.4	317,300 *
24	77.9	85.9	288,200 *
26	76.4	85.4	263,300 *
28	74.9	84.8	241,700 *
30	73.4	84.2	222,800 *
32	71.9	83.5	206,100 *
34	70.4	82.7	188,100
36	68.8	81.9	168,900
38	67.3	81.1	152,600
40	65.7	80.1	138,400
90 Ft. BOOM			
19	82.5	97.1	371,200 *
20	81.8	96.9	352,300 *
22	80.5	96.6	318,000 *
24	79.2	96.2	289,000 *
26	77.9	95.7	264,200 *
28	76.6	95.2	242,600 *
30	75.3	94.6	223,800 *
32	74.0	94.0	207,100 *
34	72.6	93.4	190,600
36	71.3	92.7	171,400
38	69.9	91.9	155,000
40	68.6	91.1	140,700
42	67.2	90.2	128,200
44	65.8	89.3	117,200
100 Ft. BOOM			
20	82.7	107.0	312,400 *
22	81.5	106.7	304,100 *
24	80.3	106.4	290,100 *
26	79.2	105.9	265,300 *
28	78.0	105.5	243,800 *
30	76.8	105.0	224,900 *
32	75.6	104.5	208,300 *
34	74.4	103.9	192,800
36	73.2	103.3	173,600
38	72.0	102.6	157,100
40	70.8	101.9	142,800
42	69.6	101.1	130,300
44	68.3	100.3	119,300
46	67.1	99.4	109,500
48	65.8	98.5	100,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	282,800 *
24	81.2	116.5	275,900 *
26	80.2	116.2	265,500 *
28	79.1	115.7	244,000 *
30	78.0	115.3	225,200 *
32	77.0	114.8	208,700 *
34	75.9	114.3	193,900 *
36	74.8	113.7	175,000
38	73.7	113.1	158,500
40	72.6	112.5	144,100
42	71.5	111.8	131,600
44	70.4	111.0	120,500
46	69.3	110.3	110,700
48	68.2	109.4	101,900
50	67.0	108.6	94,000
120 Ft. BOOM			
22	82.9	127.0	275,100 *
24	82.0	126.7	268,800 *
26	81.0	126.3	262,700 *
28	80.0	125.9	244,700 *
30	79.1	125.5	225,900 *
32	78.1	125.1	209,300 *
34	77.1	124.6	194,600 *
36	76.1	124.1	176,400
38	75.1	123.5	159,800
40	74.1	123.0	145,500
42	73.1	122.3	132,900
44	72.1	121.7	121,800
46	71.1	121.0	112,000
48	70.1	120.2	103,100
50	69.1	119.4	95,200
55	66.5	117.3	78,400
130 Ft. BOOM			
24	82.6	136.8	252,900 *
26	81.7	136.5	246,800 *
28	80.8	136.1	239,300 *
30	79.9	135.7	213,600
32	79.0	135.3	187,500
34	78.1	134.9	165,800
36	77.2	134.4	147,500
38	76.3	133.9	131,700
40	75.4	133.4	118,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	106,100
44	73.5	132.2	95,600
46	72.6	131.5	86,200
48	71.7	130.9	77,800
50	70.7	130.1	70,300
55	68.4	128.2	54,400
60	66.0	126.0	41,600
140 Ft. BOOM			
26	82.3	146.6	239,600 *
28	81.5	146.3	232,200 *
30	80.6	145.9	214,900
32	79.8	145.5	188,800
34	79.0	145.1	167,000
36	78.1	144.7	148,600
38	77.3	144.2	132,800
40	76.4	143.7	119,100
42	75.6	143.2	107,200
44	74.7	142.6	96,600
46	73.9	142.0	87,200
48	73.0	141.4	78,800
50	72.2	140.7	71,300
55	70.0	138.9	55,300
60	67.8	136.9	42,600
65	65.5	134.7	32,100
150 Ft. BOOM			
26	82.8	156.7	213,600 *
28	82.0	156.4	207,700 *
30	81.3	156.1	202,000 *
32	80.5	155.7	189,500
34	79.7	155.3	167,700
36	78.9	154.9	149,200
38	78.2	154.5	133,400
40	77.4	154.0	119,700
42	76.6	153.5	107,700
44	75.8	153.0	97,100
46	75.0	152.5	87,700
48	74.2	151.9	79,200
50	73.4	151.3	71,700
55	71.4	149.6	55,700
60	69.4	147.7	42,900
65	67.3	145.6	32,400
70	65.2	143.4	23,700



Liftcrane Boom Capacities With Luffing Jib Attached

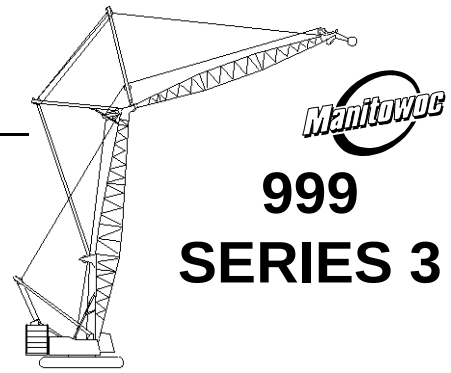
New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	200,200 *
30	81.8	166.2	194,600 *
32	81.1	165.9	189,200 *
34	80.4	165.5	168,400
36	79.6	165.1	149,900
38	78.9	164.7	134,000
40	78.2	164.3	120,300
42	77.4	163.8	108,300
44	76.7	163.3	97,700
46	76.0	162.8	88,300
48	75.2	162.3	79,800
50	74.5	161.7	72,200
55	72.6	160.2	56,200
60	70.7	158.4	43,400
65	68.8	156.5	32,900
70	66.8	154.4	24,100
170 Ft. BOOM			
28	83.0	176.6	183,400 *
30	82.3	176.3	178,900 *
32	81.6	176.0	174,400 *
34	80.9	175.7	169,000
36	80.3	175.3	150,400
38	79.6	174.9	134,600
40	78.9	174.5	120,800
42	78.2	174.1	108,800
44	77.5	173.6	98,100
46	76.8	173.1	88,700
48	76.1	172.6	80,200
50	75.4	172.1	72,600
55	73.7	170.6	56,600
60	71.9	169.0	43,700
65	70.1	167.2	33,200
70	68.3	165.3	24,500
75	66.4	163.1	17,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	171,200 *
32	82.1	186.1	166,800 *
34	81.4	185.8	162,600 *
36	80.8	185.5	150,900
38	80.2	185.1	135,000
40	79.5	184.7	121,200
42	78.9	184.3	109,100
44	78.2	183.9	98,500
46	77.6	183.4	89,000
48	76.9	183.0	80,600
50	76.2	182.5	73,000
55	74.6	181.1	56,900
60	72.9	179.6	44,000
65	71.2	177.9	33,500
70	69.5	176.0	24,700
75	67.8	174.0	17,300
80	66.1	171.8	10,900
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	118,000 *
42	79.4	194.5	109,300
44	78.8	194.1	98,600
46	78.2	193.7	89,100
48	77.6	193.2	80,600
50	77.0	192.8	73,000
55	75.4	191.5	56,900
60	73.9	190.0	44,000
65	72.3	188.4	33,400
70	70.7	186.7	24,600
75	69.1	184.8	17,200
80	67.4	182.7	10,800
85	65.8	180.5	5,300



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

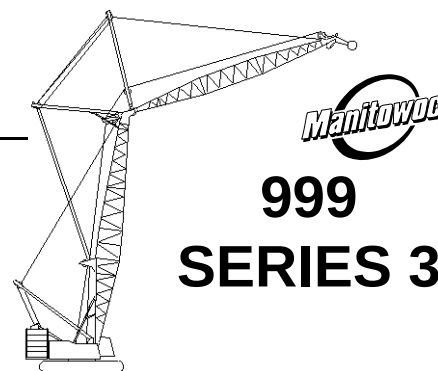
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	379,900 *
18	82.3	87.1	374,900 *
19	81.5	87.0	367,200 *
20	80.8	86.8	347,600 *
22	79.3	86.4	313,300 *
24	77.9	85.9	284,300 *
26	76.4	85.4	259,400 *
28	74.9	84.8	237,800 *
30	73.4	84.2	219,000 *
32	71.9	83.5	202,400 *
34	70.4	82.7	182,900
36	68.8	81.9	164,000
38	67.3	81.1	147,700
40	65.7	80.1	133,600
90 Ft. BOOM			
19	82.5	97.1	366,200 *
20	81.8	96.9	348,400 *
22	80.5	96.6	314,200 *
24	79.2	96.2	285,200 *
26	77.9	95.7	260,400 *
28	76.6	95.2	238,900 *
30	75.3	94.6	220,100 *
32	74.0	94.0	203,500 *
34	72.6	93.4	185,700
36	71.3	92.7	166,700
38	69.9	91.9	150,400
40	68.6	91.1	136,200
42	67.2	90.2	123,800
44	65.8	89.3	112,900
100 Ft. BOOM			
20	82.7	107.0	307,800 *
22	81.5	106.7	299,300 *
24	80.3	106.4	286,400 *
26	79.2	105.9	261,700 *
28	78.0	105.5	240,200 *
30	76.8	105.0	221,400 *
32	75.6	104.5	204,900 *
34	74.4	103.9	188,200
36	73.2	103.3	169,100
38	72.0	102.6	152,700
40	70.8	101.9	138,500
42	69.6	101.1	126,100
44	68.3	100.3	115,200
46	67.1	99.4	105,500
48	65.8	98.5	96,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	278,500 *
24	81.2	116.5	271,400 *
26	80.2	116.2	262,000 *
28	79.1	115.7	240,600 *
30	78.0	115.3	221,900 *
32	77.0	114.8	205,300 *
34	75.9	114.3	189,900
36	74.8	113.7	170,700
38	73.7	113.1	154,300
40	72.6	112.5	140,100
42	71.5	111.8	127,600
44	70.4	111.0	116,600
46	69.3	110.3	106,900
48	68.2	109.4	98,100
50	67.0	108.6	90,300
120 Ft. BOOM			
22	82.9	127.0	271,100 *
24	82.0	126.7	264,800 *
26	81.0	126.3	258,600 *
28	80.0	125.9	237,800
30	79.1	125.5	206,300
32	78.1	125.1	180,500
34	77.1	124.6	159,000
36	76.1	124.1	140,800
38	75.1	123.5	125,200
40	74.1	123.0	111,700
42	73.1	122.3	99,900
44	72.1	121.7	89,500
46	71.1	121.0	80,300
48	70.1	120.2	72,000
50	69.1	119.4	64,500
55	66.5	117.3	48,800
130 Ft. BOOM			
24	82.6	136.8	249,200 *
26	81.7	136.5	243,800 *
28	80.8	136.1	236,800 *
30	79.9	135.7	207,900
32	79.0	135.3	182,000
34	78.1	134.9	160,500
36	77.2	134.4	142,300
38	76.3	133.9	126,700
40	75.4	133.4	113,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	101,300
44	73.5	132.2	90,800
46	72.6	131.5	81,600
48	71.7	130.9	73,300
50	70.7	130.1	65,800
55	68.4	128.2	50,000
60	66.0	126.0	37,400
140 Ft. BOOM			
26	82.3	146.6	236,300 *
28	81.5	146.3	229,600 *
30	80.6	145.9	209,300
32	79.8	145.5	183,400
34	79.0	145.1	161,800
36	78.1	144.7	143,600
38	77.3	144.2	127,900
40	76.4	143.7	114,300
42	75.6	143.2	102,500
44	74.7	142.6	92,000
46	73.9	142.0	82,700
48	73.0	141.4	74,400
50	72.2	140.7	66,900
55	70.0	138.9	51,100
60	67.8	136.9	38,400
65	65.5	134.7	28,100
150 Ft. BOOM			
26	82.8	156.7	211,000 *
28	82.0	156.4	205,100 *
30	81.3	156.1	199,400 *
32	80.5	155.7	184,200
34	79.7	155.3	162,600
36	78.9	154.9	144,300
38	78.2	154.5	128,600
40	77.4	154.0	115,000
42	76.6	153.5	103,100
44	75.8	153.0	92,600
46	75.0	152.5	83,300
48	74.2	151.9	74,900
50	73.4	151.3	67,400
55	71.4	149.6	51,600
60	69.4	147.7	38,900
65	67.3	145.6	28,500
70	65.2	143.4	19,800



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

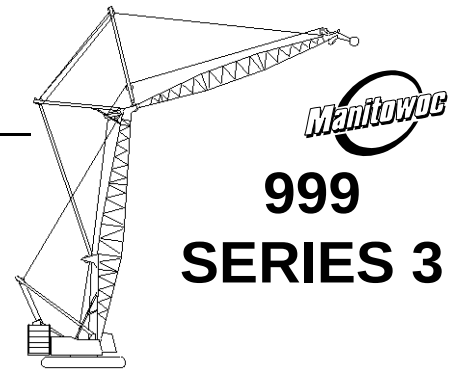
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	197,600 *
30	81.8	166.2	192,000 *
32	81.1	165.9	185,100
34	80.4	165.5	163,400
36	79.6	165.1	145,100
38	78.9	164.7	129,400
40	78.2	164.3	115,700
42	77.4	163.8	103,800
44	76.7	163.3	93,300
46	76.0	162.8	84,000
48	75.2	162.3	75,600
50	74.5	161.7	68,100
55	72.6	160.2	52,200
60	70.7	158.4	39,500
65	68.8	156.5	29,100
70	66.8	154.4	20,400
170 Ft. BOOM			
28	83.0	176.6	180,900 *
30	82.3	176.3	176,300 *
32	81.6	176.0	171,900 *
34	80.9	175.7	164,100
36	80.3	175.3	145,700
38	79.6	174.9	130,000
40	78.9	174.5	116,300
42	78.2	174.1	104,400
44	77.5	173.6	93,900
46	76.8	173.1	84,500
48	76.1	172.6	76,100
50	75.4	172.1	68,600
55	73.7	170.6	52,700
60	71.9	169.0	39,900
65	70.1	167.2	29,500
70	68.3	165.3	20,800
75	66.4	163.1	13,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	168,600 *
32	82.1	186.1	164,200 *
34	81.4	185.8	160,000 *
36	80.8	185.5	146,300
38	80.2	185.1	130,500
40	79.5	184.7	116,800
42	78.9	184.3	104,900
44	78.2	183.9	94,300
46	77.6	183.4	84,900
48	76.9	183.0	76,500
50	76.2	182.5	69,000
55	74.6	181.1	53,000
60	72.9	179.6	40,300
65	71.2	177.9	29,800
70	69.5	176.0	21,200
75	67.8	174.0	13,800
80	66.1	171.8	7,500
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	117,100
42	79.4	194.5	105,100
44	78.8	194.1	94,500
46	78.2	193.7	85,100
48	77.6	193.2	76,700
50	77.0	192.8	69,100
55	75.4	191.5	53,100
60	73.9	190.0	40,300
65	72.3	188.4	29,800
70	70.7	186.7	21,100
75	69.1	184.8	13,700
80	67.4	182.7	7,400



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

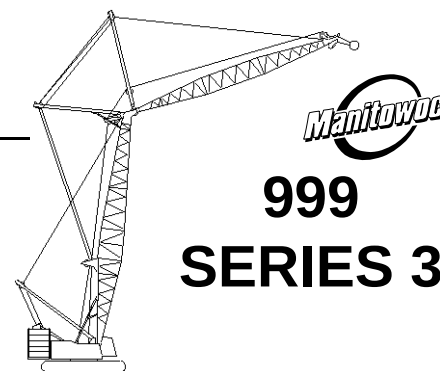
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	375,100 *
18	82.3	87.1	370,100 *
19	81.5	87.0	364,100 *
20	80.8	86.8	344,500 *
22	79.3	86.4	310,300 *
24	77.9	85.9	281,300 *
26	76.4	85.4	256,500 *
28	74.9	84.8	235,000 *
30	73.4	84.2	216,200 *
32	71.9	83.5	199,600 *
34	70.4	82.7	179,000
36	68.8	81.9	160,100
38	67.3	81.1	144,000
40	65.7	80.1	130,000
90 Ft. BOOM			
19	82.5	97.1	361,900 *
20	81.8	96.9	345,500 *
22	80.5	96.6	311,300 *
24	79.2	96.2	282,400 *
26	77.9	95.7	257,700 *
28	76.6	95.2	236,200 *
30	75.3	94.6	217,500 *
32	74.0	94.0	200,900 *
34	72.6	93.4	182,000
36	71.3	92.7	163,100
38	69.9	91.9	146,900
40	68.6	91.1	132,800
42	67.2	90.2	120,500
44	65.8	89.3	109,700
100 Ft. BOOM			
20	82.7	107.0	303,600 *
22	81.5	106.7	295,300 *
24	80.3	106.4	283,700 *
26	79.2	105.9	259,000 *
28	78.0	105.5	237,600 *
30	76.8	105.0	218,900 *
32	75.6	104.5	202,400 *
34	74.4	103.9	184,600
36	73.2	103.3	165,700
38	72.0	102.6	149,400
40	70.8	101.9	135,300
42	69.6	101.1	123,000
44	68.3	100.3	112,100
46	67.1	99.4	102,500
48	65.8	98.5	93,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	274,700 *
24	81.2	116.5	267,500 *
26	80.2	116.2	259,500 *
28	79.1	115.7	230,800
30	78.0	115.3	199,600
32	77.0	114.8	174,100
34	75.9	114.3	152,800
36	74.8	113.7	134,800
38	73.7	113.1	119,400
40	72.6	112.5	106,100
42	71.5	111.8	94,400
44	70.4	111.0	84,100
46	69.3	110.3	74,900
48	68.2	109.4	66,700
50	67.0	108.6	59,300
120 Ft. BOOM			
22	82.9	127.0	267,600 *
24	82.0	126.7	261,200 *
26	81.0	126.3	254,900 *
28	80.0	125.9	233,000
30	79.1	125.5	201,800
32	78.1	125.1	176,200
34	77.1	124.6	154,900
36	76.1	124.1	136,800
38	75.1	123.5	121,400
40	74.1	123.0	108,000
42	73.1	122.3	96,300
44	72.1	121.7	85,900
46	71.1	121.0	76,800
48	70.1	120.2	68,500
50	69.1	119.4	61,200
55	66.5	117.3	45,600
130 Ft. BOOM			
24	82.6	136.8	246,000 *
26	81.7	136.5	240,500 *
28	80.8	136.1	234,400 *
30	79.9	135.7	203,500
32	79.0	135.3	177,900
34	78.1	134.9	156,500
36	77.2	134.4	138,400
38	76.3	133.9	122,900
40	75.4	133.4	109,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	97,800
44	73.5	132.2	87,400
46	72.6	131.5	78,200
48	71.7	130.9	70,000
50	70.7	130.1	62,600
55	68.4	128.2	46,900
60	66.0	126.0	34,400
140 Ft. BOOM			
26	82.3	146.6	233,300 *
28	81.5	146.3	227,400 *
30	80.6	145.9	205,000
32	79.8	145.5	179,300
34	79.0	145.1	157,900
36	78.1	144.7	139,800
38	77.3	144.2	124,300
40	76.4	143.7	110,900
42	75.6	143.2	99,100
44	74.7	142.6	88,700
46	73.9	142.0	79,500
48	73.0	141.4	71,200
50	72.2	140.7	63,800
55	70.0	138.9	48,100
60	67.8	136.9	35,600
65	65.5	134.7	25,300
150 Ft. BOOM			
26	82.8	156.7	208,900 *
28	82.0	156.4	203,000 *
30	81.3	156.1	197,300 *
32	80.5	155.7	180,300
34	79.7	155.3	158,800
36	78.9	154.9	140,700
38	78.2	154.5	125,100
40	77.4	154.0	111,600
42	76.6	153.5	99,800
44	75.8	153.0	89,400
46	75.0	152.5	80,100
48	74.2	151.9	71,900
50	73.4	151.3	64,400
55	71.4	149.6	48,700
60	69.4	147.7	36,100
65	67.3	145.6	25,800
70	65.2	143.4	17,300



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

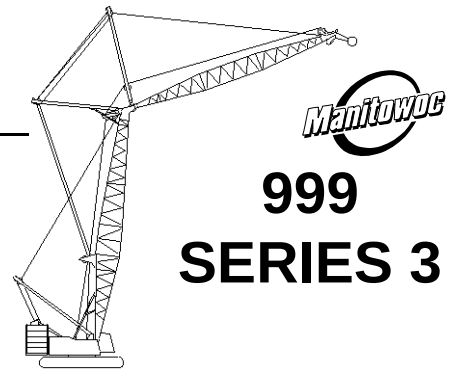
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	195,400 *
30	81.8	166.2	189,800 *
32	81.1	165.9	181,300
34	80.4	165.5	159,800
36	79.6	165.1	141,600
38	78.9	164.7	126,000
40	78.2	164.3	112,500
42	77.4	163.8	100,600
44	76.7	163.3	90,200
46	76.0	162.8	80,900
48	75.2	162.3	72,600
50	74.5	161.7	65,200
55	72.6	160.2	49,400
60	70.7	158.4	36,800
65	68.8	156.5	26,500
70	66.8	154.4	17,900
170 Ft. BOOM			
28	83.0	176.6	178,800 *
30	82.3	176.3	174,200 *
32	81.6	176.0	169,800 *
34	80.9	175.7	160,500
36	80.3	175.3	142,300
38	79.6	174.9	126,700
40	78.9	174.5	113,100
42	78.2	174.1	101,300
44	77.5	173.6	90,800
46	76.8	173.1	81,500
48	76.1	172.6	73,200
50	75.4	172.1	65,700
55	73.7	170.6	50,000
60	71.9	169.0	37,300
65	70.1	167.2	27,000
70	68.3	165.3	18,400
75	66.4	163.1	11,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	166,500 *
32	82.1	186.1	162,100 *
34	81.4	185.8	157,900 *
36	80.8	185.5	142,900
38	80.2	185.1	127,200
40	79.5	184.7	113,700
42	78.9	184.3	101,800
44	78.2	183.9	91,300
46	77.6	183.4	82,000
48	76.9	183.0	73,700
50	76.2	182.5	66,200
55	74.6	181.1	50,400
60	72.9	179.6	37,800
65	71.2	177.9	27,400
70	69.5	176.0	18,800
75	67.8	174.0	11,500
80	66.1	171.8	5,300
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	114,000
42	79.4	194.5	102,100
44	78.8	194.1	91,600
46	78.2	193.7	82,300
48	77.6	193.2	73,900
50	77.0	192.8	66,400
55	75.4	191.5	50,600
60	73.9	190.0	37,900
65	72.3	188.4	27,500
70	70.7	186.7	18,800
75	69.1	184.8	11,500
80	67.4	182.7	5,300



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

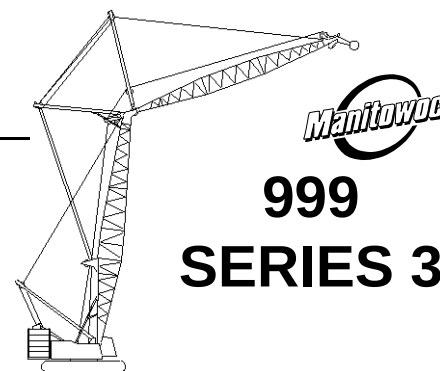
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	369,400 *
18	82.3	87.1	364,200 *
19	81.5	87.0	359,300 *
20	80.8	86.8	340,200 *
22	79.3	86.4	306,100 *
24	77.9	85.9	277,200 *
26	76.4	85.4	252,400 *
28	74.9	84.8	230,900 *
30	73.4	84.2	212,100 *
32	71.9	83.5	195,600 *
34	70.4	82.7	173,500
36	68.8	81.9	154,900
38	67.3	81.1	138,900
40	65.7	80.1	125,000
90 Ft. BOOM			
19	82.5	97.1	356,600 *
20	81.8	96.9	341,300 *
22	80.5	96.6	307,300 *
24	79.2	96.2	278,500 *
26	77.9	95.7	253,800 *
28	76.6	95.2	232,400 *
30	75.3	94.6	213,600 *
32	74.0	94.0	197,100 *
34	72.6	93.4	176,900
36	71.3	92.7	158,100
38	69.9	91.9	142,000
40	68.6	91.1	128,100
42	67.2	90.2	115,900
44	65.8	89.3	105,200
100 Ft. BOOM			
20	82.7	107.0	298,500 *
22	81.5	106.7	290,200 *
24	80.3	106.4	279,900 *
26	79.2	105.9	255,300 *
28	78.0	105.5	221,500
30	76.8	105.0	190,600
32	75.6	104.5	165,400
34	74.4	103.9	144,500
36	73.2	103.3	126,700
38	72.0	102.6	111,500
40	70.8	101.9	98,300
42	69.6	101.1	86,800
44	68.3	100.3	76,600
46	67.1	99.4	67,600
48	65.8	98.5	59,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	270,000 *
24	81.2	116.5	262,800 *
26	80.2	116.2	255,800 *
28	79.1	115.7	224,100
30	78.0	115.3	193,200
32	77.0	114.8	167,900
34	75.9	114.3	146,800
36	74.8	113.7	129,000
38	73.7	113.1	113,700
40	72.6	112.5	100,500
42	71.5	111.8	88,900
44	70.4	111.0	78,700
46	69.3	110.3	69,600
48	68.2	109.4	61,500
50	67.0	108.6	54,200
120 Ft. BOOM			
22	82.9	127.0	263,300 *
24	82.0	126.7	256,900 *
26	81.0	126.3	250,400 *
28	80.0	125.9	226,500
30	79.1	125.5	195,500
32	78.1	125.1	170,200
34	77.1	124.6	149,100
36	76.1	124.1	131,200
38	75.1	123.5	115,900
40	74.1	123.0	102,600
42	73.1	122.3	91,000
44	72.1	121.7	80,800
46	71.1	121.0	71,700
48	70.1	120.2	63,600
50	69.1	119.4	56,300
55	66.5	117.3	40,800
130 Ft. BOOM			
24	82.6	136.8	242,100 *
26	81.7	136.5	236,500 *
28	80.8	136.1	228,500
30	79.9	135.7	197,400
32	79.0	135.3	172,000
34	78.1	134.9	150,900
36	77.2	134.4	133,000
38	76.3	133.9	117,600
40	75.4	133.4	104,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	92,700
44	73.5	132.2	82,400
46	72.6	131.5	73,300
48	71.7	130.9	65,200
50	70.7	130.1	57,800
55	68.4	128.2	42,300
60	66.0	126.0	30,000
140 Ft. BOOM			
26	82.3	146.6	229,500 *
28	81.5	146.3	224,500 *
30	80.6	145.9	199,100
32	79.8	145.5	173,700
34	79.0	145.1	152,400
36	78.1	144.7	134,500
38	77.3	144.2	119,100
40	76.4	143.7	105,800
42	75.6	143.2	94,200
44	74.7	142.6	83,900
46	73.9	142.0	74,700
48	73.0	141.4	66,600
50	72.2	140.7	59,200
55	70.0	138.9	43,700
60	67.8	136.9	31,300
65	65.5	134.7	21,100
150 Ft. BOOM			
26	82.8	156.7	206,200 *
28	82.0	156.4	200,200 *
30	81.3	156.1	194,500 *
32	80.5	155.7	174,800
34	79.7	155.3	153,500
36	78.9	154.9	135,500
38	78.2	154.5	120,100
40	77.4	154.0	106,700
42	76.6	153.5	95,000
44	75.8	153.0	84,700
46	75.0	152.5	75,500
48	74.2	151.9	67,300
50	73.4	151.3	60,000
55	71.4	149.6	44,400
60	69.4	147.7	31,900
65	67.3	145.6	21,700
70	65.2	143.4	13,300



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

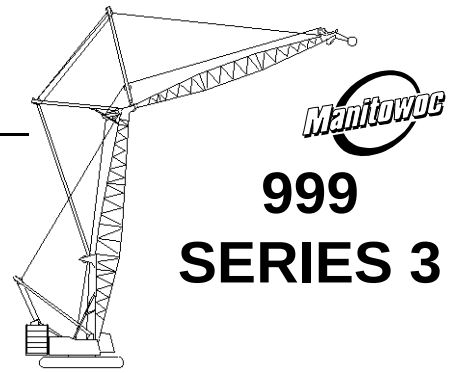
360 Degree Rating

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
160 Ft. BOOM			
28	82.5	166.5	192,600 *
30	81.8	166.2	187,000 *
32	81.1	165.9	175,800
34	80.4	165.5	154,500
36	79.6	165.1	136,500
38	78.9	164.7	121,000
40	78.2	164.3	107,600
42	77.4	163.8	95,900
44	76.7	163.3	85,600
46	76.0	162.8	76,400
48	75.2	162.3	68,200
50	74.5	161.7	60,800
55	72.6	160.2	45,200
60	70.7	158.4	32,700
65	68.8	156.5	22,500
70	66.8	154.4	14,000
170 Ft. BOOM			
28	83.0	176.6	176,100 *
30	82.3	176.3	171,500 *
32	81.6	176.0	167,100 *
34	80.9	175.7	155,400
36	80.3	175.3	137,300
38	79.6	174.9	121,800
40	78.9	174.5	108,400
42	78.2	174.1	96,700
44	77.5	173.6	86,300
46	76.8	173.1	77,100
48	76.1	172.6	68,900
50	75.4	172.1	61,500
55	73.7	170.6	45,800
60	71.9	169.0	33,300
65	70.1	167.2	23,100
70	68.3	165.3	14,600
75	66.4	163.1	7,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	163,600 *
32	82.1	186.1	159,300 *
34	81.4	185.8	155,100 *
36	80.8	185.5	138,000
38	80.2	185.1	122,500
40	79.5	184.7	109,100
42	78.9	184.3	97,300
44	78.2	183.9	86,900
46	77.6	183.4	77,700
48	76.9	183.0	69,500
50	76.2	182.5	62,100
55	74.6	181.1	46,400
60	72.9	179.6	33,900
65	71.2	177.9	23,600
70	69.5	176.0	15,100
75	67.8	174.0	7,900
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	109,500
42	79.4	194.5	97,700
44	78.8	194.1	87,300
46	78.2	193.7	78,000
48	77.6	193.2	69,800
50	77.0	192.8	62,300
55	75.4	191.5	46,600
60	73.9	190.0	34,000
65	72.3	188.4	23,800
70	70.7	186.7	15,200
75	69.1	184.8	7,900



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

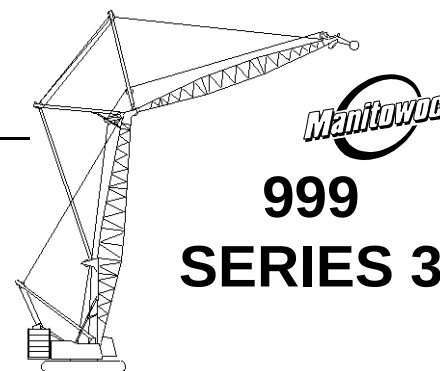
Meets
ANSI B30.5
Requirements

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
80 Ft. BOOM			
17	83.0	87.3	365,500 *
18	82.3	87.1	360,300 *
19	81.5	87.0	355,200 *
20	80.8	86.8	336,600 *
22	79.3	86.4	302,500 *
24	77.9	85.9	273,600 *
26	76.4	85.4	248,900 *
28	74.9	84.8	227,500 *
30	73.4	84.2	208,800 *
32	71.9	83.5	190,800
34	70.4	82.7	168,900
36	68.8	81.9	150,400
38	67.3	81.1	134,500
40	65.7	80.1	120,700
90 Ft. BOOM			
19	82.5	97.1	353,000 *
20	81.8	96.9	337,800 *
22	80.5	96.6	303,800 *
24	79.2	96.2	275,100 *
26	77.9	95.7	249,500
28	76.6	95.2	211,500
30	75.3	94.6	181,000
32	74.0	94.0	156,100
34	72.6	93.4	135,400
36	71.3	92.7	117,800
38	69.9	91.9	102,800
40	68.6	91.1	89,800
42	67.2	90.2	78,400
44	65.8	89.3	68,300
100 Ft. BOOM			
20	82.7	107.0	295,200 *
22	81.5	106.7	286,700 *
24	80.3	106.4	276,700 *
26	79.2	105.9	252,100 *
28	78.0	105.5	215,400
30	76.8	105.0	184,900
32	75.6	104.5	159,900
34	74.4	103.9	139,100
36	73.2	103.3	121,500
38	72.0	102.6	106,500
40	70.8	101.9	93,400
42	69.6	101.1	82,000
44	68.3	100.3	71,900
46	67.1	99.4	63,000
48	65.8	98.5	54,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	266,900 *
24	81.2	116.5	259,600 *
26	80.2	116.2	252,800 *
28	79.1	115.7	218,300
30	78.0	115.3	187,600
32	77.0	114.8	162,600
34	75.9	114.3	141,700
36	74.8	113.7	124,000
38	73.7	113.1	108,900
40	72.6	112.5	95,800
42	71.5	111.8	84,300
44	70.4	111.0	74,200
46	69.3	110.3	65,200
48	68.2	109.4	57,200
50	67.0	108.6	50,000
120 Ft. BOOM			
22	82.9	127.0	260,600 *
24	82.0	126.7	254,000 *
26	81.0	126.3	247,500 *
28	80.0	125.9	220,900
30	79.1	125.5	190,200
32	78.1	125.1	165,100
34	77.1	124.6	144,100
36	76.1	124.1	126,400
38	75.1	123.5	111,300
40	74.1	123.0	98,100
42	73.1	122.3	86,600
44	72.1	121.7	76,500
46	71.1	121.0	67,500
48	70.1	120.2	59,400
50	69.1	119.4	52,200
55	66.5	117.3	36,900
130 Ft. BOOM			
24	82.6	136.8	239,600 *
26	81.7	136.5	233,900 *
28	80.8	136.1	223,100
30	79.9	135.7	192,300
32	79.0	135.3	167,100
34	78.1	134.9	146,100
36	77.2	134.4	128,300
38	76.3	133.9	113,100
40	75.4	133.4	100,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	88,400
44	73.5	132.2	78,300
46	72.6	131.5	69,200
48	71.7	130.9	61,200
50	70.7	130.1	53,900
55	68.4	128.2	38,600
60	66.0	126.0	26,300
140 Ft. BOOM			
26	82.3	146.6	227,200 *
28	81.5	146.3	222,400 *
30	80.6	145.9	194,100
32	79.8	145.5	168,800
34	79.0	145.1	147,800
36	78.1	144.7	130,000
38	77.3	144.2	114,800
40	76.4	143.7	101,600
42	75.6	143.2	90,000
44	74.7	142.6	79,800
46	73.9	142.0	70,800
48	73.0	141.4	62,700
50	72.2	140.7	55,400
55	70.0	138.9	40,000
60	67.8	136.9	27,700
65	65.5	134.7	17,700
150 Ft. BOOM			
26	82.8	156.7	204,500 *
28	82.0	156.4	198,600 *
30	81.3	156.1	192,900 *
32	80.5	155.7	170,100
34	79.7	155.3	149,000
36	78.9	154.9	131,100
38	78.2	154.5	115,800
40	77.4	154.0	102,600
42	76.6	153.5	91,000
44	75.8	153.0	80,800
46	75.0	152.5	71,700
48	74.2	151.9	63,600
50	73.4	151.3	56,300
55	71.4	149.6	40,800
60	69.4	147.7	28,500
65	67.3	145.6	18,400
70	65.2	143.4	10,000



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

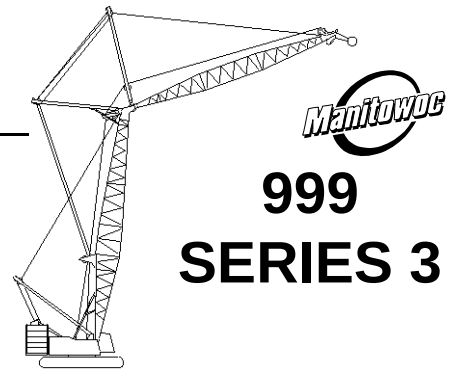
360 Degree Rating

Meets
ANSI B30.5
Requirements

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
160 Ft. BOOM			
28	82.5	166.5	190,900 *
30	81.8	166.2	185,300 *
32	81.1	165.9	171,200
34	80.4	165.5	150,100
36	79.6	165.1	132,200
38	78.9	164.7	116,900
40	78.2	164.3	103,600
42	77.4	163.8	92,000
44	76.7	163.3	81,800
46	76.0	162.8	72,700
48	75.2	162.3	64,500
50	74.5	161.7	57,200
55	72.6	160.2	41,800
60	70.7	158.4	29,400
65	68.8	156.5	19,300
70	66.8	154.4	10,900
170 Ft. BOOM			
28	83.0	176.6	174,500 *
30	82.3	176.3	169,900 *
32	81.6	176.0	165,400 *
34	80.9	175.7	151,100
36	80.3	175.3	133,100
38	79.6	174.9	117,800
40	78.9	174.5	104,500
42	78.2	174.1	92,900
44	77.5	173.6	82,600
46	76.8	173.1	73,500
48	76.1	172.6	65,300
50	75.4	172.1	58,000
55	73.7	170.6	42,500
60	71.9	169.0	30,100
65	70.1	167.2	20,000
70	68.3	165.3	11,500
75	66.4	163.1	4,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	162,000 *
32	82.1	186.1	157,700 *
34	81.4	185.8	151,900
36	80.8	185.5	133,900
38	80.2	185.1	118,500
40	79.5	184.7	105,200
42	78.9	184.3	93,600
44	78.2	183.9	83,300
46	77.6	183.4	74,100
48	76.9	183.0	66,000
50	76.2	182.5	58,600
55	74.6	181.1	43,100
60	72.9	179.6	30,700
65	71.2	177.9	20,500
70	69.5	176.0	12,100
75	67.8	174.0	4,900
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	118,000 *
40	80.1	194.9	105,700
42	79.4	194.5	94,000
44	78.8	194.1	83,700
46	78.2	193.7	74,500
48	77.6	193.2	66,300
50	77.0	192.8	58,900
55	75.4	191.5	43,400
60	73.9	190.0	30,900
65	72.3	188.4	20,700
70	70.7	186.7	12,300
75	69.1	184.8	5,100



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

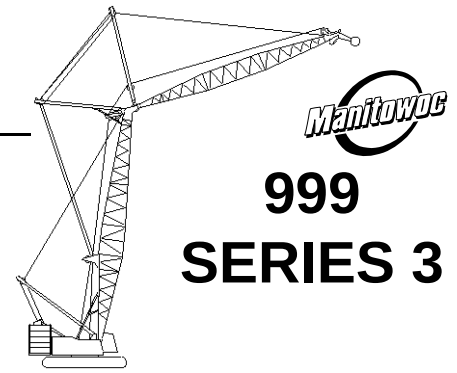
Meets
ANSI B30.5
Requirements

180 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
80 Ft. BOOM			
17	83.0	87.3	359,400 *
18	82.3	87.1	354,000 *
19	81.5	87.0	348,900 *
20	80.8	86.8	332,000 *
22	79.3	86.4	298,000 *
24	77.9	85.9	269,200 *
26	76.4	85.4	236,100
28	74.9	84.8	198,600
30	73.4	84.2	168,600
32	71.9	83.5	144,100
34	70.4	82.7	123,600
36	68.8	81.9	106,400
38	67.3	81.1	91,600
40	65.7	80.1	78,800
90 Ft. BOOM			
19	82.5	97.1	347,400 *
20	81.8	96.9	333,400 *
22	80.5	96.6	299,500 *
24	79.2	96.2	270,800 *
26	77.9	95.7	241,300
28	76.6	95.2	203,600
30	75.3	94.6	173,500
32	74.0	94.0	148,900
34	72.6	93.4	128,400
36	71.3	92.7	111,000
38	69.9	91.9	96,100
40	68.6	91.1	83,300
42	67.2	90.2	72,000
44	65.8	89.3	62,100
100 Ft. BOOM			
20	82.7	107.0	289,800 *
22	81.5	106.7	281,200 *
24	80.3	106.4	272,600 *
26	79.2	105.9	245,800
28	78.0	105.5	208,000
30	76.8	105.0	177,700
32	75.6	104.5	153,000
34	74.4	103.9	132,400
36	73.2	103.3	115,000
38	72.0	102.6	100,100
40	70.8	101.9	87,200
42	69.6	101.1	75,900
44	68.3	100.3	66,000
46	67.1	99.4	57,100
48	65.8	98.5	49,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	261,900 *
24	81.2	116.5	254,500 *
26	80.2	116.2	247,400 *
28	79.1	115.7	211,100
30	78.0	115.3	180,800
32	77.0	114.8	155,900
34	75.9	114.3	135,300
36	74.8	113.7	117,800
38	73.7	113.1	102,800
40	72.6	112.5	89,900
42	71.5	111.8	78,500
44	70.4	111.0	68,500
46	69.3	110.3	59,600
48	68.2	109.4	51,700
50	67.0	108.6	44,500
120 Ft. BOOM			
22	82.9	127.0	256,000 *
24	82.0	126.7	249,400 *
26	81.0	126.3	242,800 *
28	80.0	125.9	213,900
30	79.1	125.5	183,500
32	78.1	125.1	158,600
34	77.1	124.6	137,900
36	76.1	124.1	120,400
38	75.1	123.5	105,400
40	74.1	123.0	92,400
42	73.1	122.3	81,000
44	72.1	121.7	71,000
46	71.1	121.0	62,100
48	70.1	120.2	54,100
50	69.1	119.4	47,000
55	66.5	117.3	31,800
130 Ft. BOOM			
24	82.6	136.8	235,400 *
26	81.7	136.5	229,700 *
28	80.8	136.1	216,300
30	79.9	135.7	185,800
32	79.0	135.3	160,800
34	78.1	134.9	140,100
36	77.2	134.4	122,500
38	76.3	133.9	107,500
40	75.4	133.4	94,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	83,000
44	73.5	132.2	73,000
46	72.6	131.5	64,000
48	71.7	130.9	56,100
50	70.7	130.1	48,900
55	68.4	128.2	33,700
60	66.0	126.0	21,600
140 Ft. BOOM			
26	82.3	146.6	223,200 *
28	81.5	146.3	218,300
30	80.6	145.9	187,800
32	79.8	145.5	162,800
34	79.0	145.1	142,000
36	78.1	144.7	124,400
38	77.3	144.2	109,300
40	76.4	143.7	96,200
42	75.6	143.2	84,800
44	74.7	142.6	74,700
46	73.9	142.0	65,700
48	73.0	141.4	57,700
50	72.2	140.7	50,500
55	70.0	138.9	35,300
60	67.8	136.9	23,200
65	65.5	134.7	13,200
150 Ft. BOOM			
26	82.8	156.7	201,600 *
28	82.0	156.4	195,700 *
30	81.3	156.1	189,200
32	80.5	155.7	164,100
34	79.7	155.3	143,300
36	78.9	154.9	125,600
38	78.2	154.5	110,500
40	77.4	154.0	97,400
42	76.6	153.5	85,900
44	75.8	153.0	75,800
46	75.0	152.5	66,800
48	74.2	151.9	58,800
50	73.4	151.3	51,500
55	71.4	149.6	36,300
60	69.4	147.7	24,100
65	67.3	145.6	14,100
70	65.2	143.4	5,800



Liftcrane Boom Capacities With Luffing Jib Attached

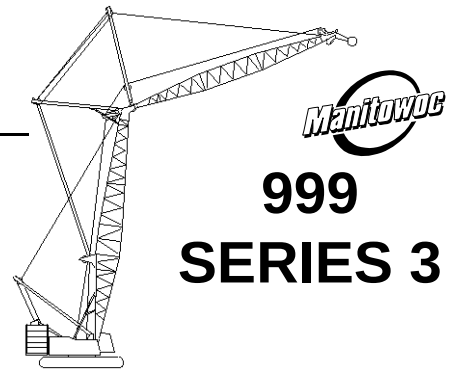
New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

180 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
160 Ft. BOOM			
28	82.5	166.5	187,900 *
30	81.8	166.2	182,300 *
32	81.1	165.9	165,400
34	80.4	165.5	144,500
36	79.6	165.1	126,800
38	78.9	164.7	111,700
40	78.2	164.3	98,500
42	77.4	163.8	87,000
44	76.7	163.3	76,900
46	76.0	162.8	67,900
48	75.2	162.3	59,800
50	74.5	161.7	52,600
55	72.6	160.2	37,300
60	70.7	158.4	25,100
65	68.8	156.5	15,100
70	66.8	154.4	6,700
170 Ft. BOOM			
28	83.0	176.6	171,600 *
30	82.3	176.3	167,100 *
32	81.6	176.0	162,600 *
34	80.9	175.7	145,600
36	80.3	175.3	127,900
38	79.6	174.9	112,700
40	78.9	174.5	99,500
42	78.2	174.1	88,000
44	77.5	173.6	77,800
46	76.8	173.1	68,800
48	76.1	172.6	60,700
50	75.4	172.1	53,500
55	73.7	170.6	38,100
60	71.9	169.0	25,900
65	70.1	167.2	15,800
70	68.3	165.3	7,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	159,100 *
32	82.1	186.1	154,800 *
34	81.4	185.8	146,500
36	80.8	185.5	128,700
38	80.2	185.1	113,500
40	79.5	184.7	100,300
42	78.9	184.3	88,800
44	78.2	183.9	78,600
46	77.6	183.4	69,600
48	76.9	183.0	61,500
50	76.2	182.5	54,200
55	74.6	181.1	38,800
60	72.9	179.6	26,600
65	71.2	177.9	16,500
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	114,100
40	80.1	194.9	100,900
42	79.4	194.5	89,300
44	78.8	194.1	79,100
46	78.2	193.7	70,000
48	77.6	193.2	61,900
50	77.0	192.8	54,600
55	75.4	191.5	39,200
60	73.9	190.0	26,900
65	72.3	188.4	16,800
70	70.7	186.7	8,400



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

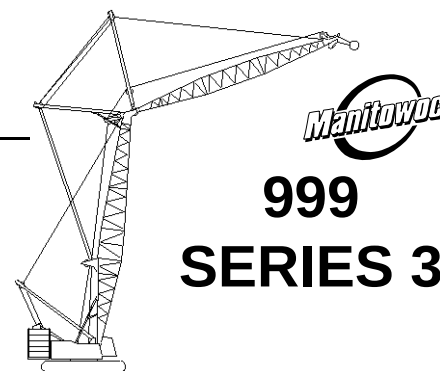
Meets
ANSI B30.5
Requirements

190 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
80 Ft. BOOM			
17	83.0	87.3	354,500 *
18	82.3	87.1	349,000 *
19	81.5	87.0	343,700 *
20	80.8	86.8	329,100 *
22	79.3	86.4	295,200 *
24	77.9	85.9	266,400 *
26	76.4	85.4	230,400
28	74.9	84.8	193,200
30	73.4	84.2	163,400
32	71.9	83.5	139,100
34	70.4	82.7	118,900
36	68.8	81.9	101,700
38	67.3	81.1	87,100
40	65.7	80.1	74,400
90 Ft. BOOM			
19	82.5	97.1	342,900 *
20	81.8	96.9	330,700 *
22	80.5	96.6	296,800 *
24	79.2	96.2	268,200 *
26	77.9	95.7	235,900
28	76.6	95.2	198,500
30	75.3	94.6	168,700
32	74.0	94.0	144,200
34	72.6	93.4	123,900
36	71.3	92.7	106,700
38	69.9	91.9	91,900
40	68.6	91.1	79,200
42	67.2	90.2	68,000
44	65.8	89.3	58,200
100 Ft. BOOM			
20	82.7	107.0	285,500 *
22	81.5	106.7	276,700 *
24	80.3	106.4	268,400 *
26	79.2	105.9	240,600
28	78.0	105.5	203,100
30	76.8	105.0	173,100
32	75.6	104.5	148,600
34	74.4	103.9	128,200
36	73.2	103.3	110,900
38	72.0	102.6	96,100
40	70.8	101.9	83,300
42	69.6	101.1	72,100
44	68.3	100.3	62,300
46	67.1	99.4	53,500
48	65.8	98.5	45,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	257,900 *
24	81.2	116.5	250,400 *
26	80.2	116.2	243,200 *
28	79.1	115.7	206,400
30	78.0	115.3	176,300
32	77.0	114.8	151,700
34	75.9	114.3	131,200
36	74.8	113.7	113,900
38	73.7	113.1	99,100
40	72.6	112.5	86,200
42	71.5	111.8	74,900
44	70.4	111.0	65,000
46	69.3	110.3	56,200
48	68.2	109.4	48,300
50	67.0	108.6	41,200
120 Ft. BOOM			
22	82.9	127.0	252,400 *
24	82.0	126.7	245,700 *
26	81.0	126.3	239,300 *
28	80.0	125.9	209,400
30	79.1	125.5	179,300
32	78.1	125.1	154,600
34	77.1	124.6	134,000
36	76.1	124.1	116,700
38	75.1	123.5	101,800
40	74.1	123.0	88,900
42	73.1	122.3	77,600
44	72.1	121.7	67,700
46	71.1	121.0	58,800
48	70.1	120.2	50,900
50	69.1	119.4	43,800
55	66.5	117.3	28,800
130 Ft. BOOM			
24	82.6	136.8	232,000 *
26	81.7	136.5	226,300 *
28	80.8	136.1	211,900
30	79.9	135.7	181,700
32	79.0	135.3	156,900
34	78.1	134.9	136,300
36	77.2	134.4	118,900
38	76.3	133.9	104,000
40	75.4	133.4	91,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	79,700
44	73.5	132.2	69,800
46	72.6	131.5	60,900
48	71.7	130.9	53,000
50	70.7	130.1	45,800
55	68.4	128.2	30,800
60	66.0	126.0	18,800
140 Ft. BOOM			
26	82.3	146.6	220,000 *
28	81.5	146.3	214,100
30	80.6	145.9	183,800
32	79.8	145.5	159,000
34	79.0	145.1	138,300
36	78.1	144.7	120,900
38	77.3	144.2	105,900
40	76.4	143.7	92,900
42	75.6	143.2	81,600
44	74.7	142.6	71,600
46	73.9	142.0	62,700
48	73.0	141.4	54,800
50	72.2	140.7	47,600
55	70.0	138.9	32,500
60	67.8	136.9	20,500
65	65.5	134.7	10,600
150 Ft. BOOM			
26	82.8	156.7	199,300 *
28	82.0	156.4	193,400 *
30	81.3	156.1	185,300
32	80.5	155.7	160,400
34	79.7	155.3	139,700
36	78.9	154.9	122,200
38	78.2	154.5	107,200
40	77.4	154.0	94,200
42	76.6	153.5	82,800
44	75.8	153.0	72,800
46	75.0	152.5	63,800
48	74.2	151.9	55,900
50	73.4	151.3	48,700
55	71.4	149.6	33,600
60	69.4	147.7	21,500
65	67.3	145.6	11,600



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

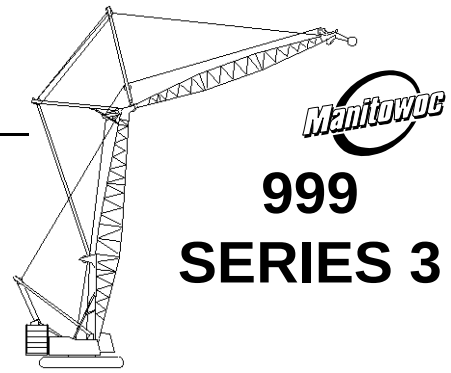
360 Degree Rating

Meets
ANSI B30.5
Requirements

190 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
160 Ft. BOOM			
28	82.5	166.5	185,500 *
30	81.8	166.2	179,900 *
32	81.1	165.9	161,800
34	80.4	165.5	141,100
36	79.6	165.1	123,500
38	78.9	164.7	108,500
40	78.2	164.3	95,400
42	77.4	163.8	84,000
44	76.7	163.3	74,000
46	76.0	162.8	65,000
48	75.2	162.3	57,000
50	74.5	161.7	49,900
55	72.6	160.2	34,700
60	70.7	158.4	22,600
65	68.8	156.5	12,600
170 Ft. BOOM			
28	83.0	176.6	169,300 *
30	82.3	176.3	164,800 *
32	81.6	176.0	160,300 *
34	80.9	175.7	142,200
36	80.3	175.3	124,600
38	79.6	174.9	109,500
40	78.9	174.5	96,500
42	78.2	174.1	85,000
44	77.5	173.6	75,000
46	76.8	173.1	66,000
48	76.1	172.6	58,000
50	75.4	172.1	50,800
55	73.7	170.6	35,600
60	71.9	169.0	23,400
65	70.1	167.2	13,500
70	68.3	165.3	5,200

Oper. Rad. Feet	Boom Ang. Deg.	Booms Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	156,800 *
32	82.1	186.1	152,500 *
34	81.4	185.8	143,200
36	80.8	185.5	125,600
38	80.2	185.1	110,500
40	79.5	184.7	97,400
42	78.9	184.3	85,900
44	78.2	183.9	75,800
46	77.6	183.4	66,800
48	76.9	183.0	58,800
50	76.2	182.5	51,600
55	74.6	181.1	36,400
60	72.9	179.6	24,200
65	71.2	177.9	14,200
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.6	118,000 *
38	80.7	195.3	111,100
40	80.1	194.9	98,000
42	79.4	194.5	86,500
44	78.8	194.1	76,400
46	78.2	193.7	67,400
48	77.6	193.2	59,300
50	77.0	192.8	52,100
55	75.4	191.5	36,800



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

200 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

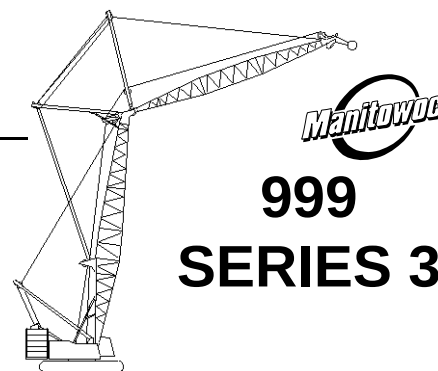
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
17	83.0	87.3	347,900 *
18	82.3	87.1	342,300 *
19	81.5	87.0	336,900 *
20	80.8	86.8	324,300 *
22	79.3	86.4	290,400 *
24	77.9	85.9	261,800 *
26	76.4	85.4	221,300
28	74.9	84.8	184,500
30	73.4	84.2	155,100
32	71.9	83.5	131,100
34	70.4	82.7	111,100
36	68.8	81.9	94,200
38	67.3	81.1	79,700
40	65.7	80.1	67,200
90 Ft. BOOM			
19	82.5	97.1	336,800 *
20	81.8	96.9	326,000 *
22	80.5	96.6	292,300 *
24	79.2	96.2	263,800 *
26	77.9	95.7	227,300
28	76.6	95.2	190,300
30	75.3	94.6	160,800
32	74.0	94.0	136,600
34	72.6	93.4	116,500
36	71.3	92.7	99,500
38	69.9	91.9	85,000
40	68.6	91.1	72,300
42	67.2	90.2	61,300
44	65.8	89.3	51,600
100 Ft. BOOM			
20	82.7	107.0	279,700 *
22	81.5	106.7	270,800 *
24	80.3	106.4	262,300 *
26	79.2	105.9	232,300
28	78.0	105.5	195,200
30	76.8	105.0	165,600
32	75.6	104.5	141,400
34	74.4	103.9	121,200
36	73.2	103.3	104,100
38	72.0	102.6	89,500
40	70.8	101.9	76,900
42	69.6	101.1	65,800
44	68.3	100.3	56,000
46	67.1	99.4	47,400
48	65.8	98.5	39,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	252,600 *
24	81.2	116.5	245,000 *
26	80.2	116.2	236,100
28	79.1	115.7	198,900
30	78.0	115.3	169,100
32	77.0	114.8	144,800
34	75.9	114.3	124,500
36	74.8	113.7	107,400
38	73.7	113.1	92,700
40	72.6	112.5	80,000
42	71.5	111.8	68,900
44	70.4	111.0	59,100
46	69.3	110.3	50,400
48	68.2	109.4	42,600
50	67.0	108.6	35,600
120 Ft. BOOM			
22	82.9	127.0	247,500 *
24	82.0	126.7	240,800 *
26	81.0	126.3	234,300 *
28	80.0	125.9	202,100
30	79.1	125.5	172,300
32	78.1	125.1	147,900
34	77.1	124.6	127,500
36	76.1	124.1	110,400
38	75.1	123.5	95,700
40	74.1	123.0	82,900
42	73.1	122.3	71,800
44	72.1	121.7	61,900
46	71.1	121.0	53,200
48	70.1	120.2	45,400
50	69.1	119.4	38,400
55	66.5	117.3	23,500
130 Ft. BOOM			
24	82.6	136.8	227,500 *
26	81.7	136.5	221,800 *
28	80.8	136.1	204,800
30	79.9	135.7	174,900
32	79.0	135.3	150,400
34	78.1	134.9	130,000
36	77.2	134.4	112,800
38	76.3	133.9	98,000
40	75.4	133.4	85,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	74,100
44	73.5	132.2	64,200
46	72.6	131.5	55,500
48	71.7	130.9	47,600
50	70.7	130.1	40,600
55	68.4	128.2	25,700
60	66.0	126.0	13,900
140 Ft. BOOM			
26	82.3	146.6	215,700 *
28	81.5	146.3	207,200
30	80.6	145.9	177,200
32	79.8	145.5	152,600
34	79.0	145.1	132,200
36	78.1	144.7	114,900
38	77.3	144.2	100,100
40	76.4	143.7	87,300
42	75.6	143.2	76,100
44	74.7	142.6	66,200
46	73.9	142.0	57,400
48	73.0	141.4	49,600
50	72.2	140.7	42,500
55	70.0	138.9	27,600
60	67.8	136.9	15,700
65	65.5	134.7	6,000
150 Ft. BOOM			
26	82.8	156.7	196,200 *
28	82.0	156.4	190,300 *
30	81.3	156.1	178,900
32	80.5	155.7	154,200
34	79.7	155.3	133,800
36	78.9	154.9	116,400
38	78.2	154.5	101,600
40	77.4	154.0	88,700
42	76.6	153.5	77,500
44	75.8	153.0	67,500
46	75.0	152.5	58,700
48	74.2	151.9	50,800
50	73.4	151.3	43,800
55	71.4	149.6	28,800
60	69.4	147.7	16,800
65	67.3	145.6	7,100

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

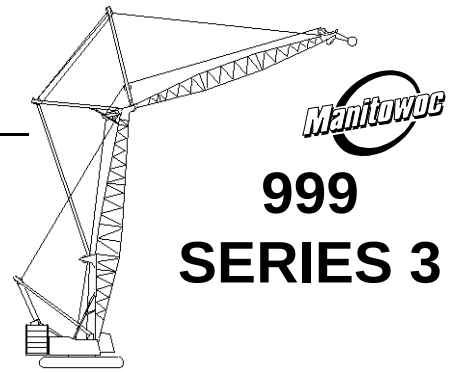
360 Degree Rating

Meets
ANSI B30.5
Requirements

200 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
160 Ft. BOOM			
28	82.5	166.5	182,400 *
30	81.8	166.2	176,800 *
32	81.1	165.9	155,800
34	80.4	165.5	135,200
36	79.6	165.1	117,900
38	78.9	164.7	103,000
40	78.2	164.3	90,100
42	77.4	163.8	78,800
44	76.7	163.3	68,900
46	76.0	162.8	60,000
48	75.2	162.3	52,100
50	74.5	161.7	45,000
55	72.6	160.2	30,000
60	70.7	158.4	18,100
65	68.8	156.5	8,300
170 Ft. BOOM			
28	83.0	176.6	166,300 *
30	82.3	176.3	161,700 *
32	81.6	176.0	157,100
34	80.9	175.7	136,500
36	80.3	175.3	119,100
38	79.6	174.9	104,200
40	78.9	174.5	91,300
42	78.2	174.1	80,000
44	77.5	173.6	70,000
46	76.8	173.1	61,100
48	76.1	172.6	53,200
50	75.4	172.1	46,100
55	73.7	170.6	31,100
60	71.9	169.0	19,000
65	70.1	167.2	9,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	153,700 *
32	82.1	186.1	149,400 *
34	81.4	185.8	137,600
36	80.8	185.5	120,100
38	80.2	185.1	105,200
40	79.5	184.7	92,200
42	78.9	184.3	80,900
44	78.2	183.9	70,900
46	77.6	183.4	62,100
48	76.9	183.0	54,100
50	76.2	182.5	47,000
55	74.6	181.1	31,900
60	72.9	179.6	19,900
65	71.2	177.9	10,000



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

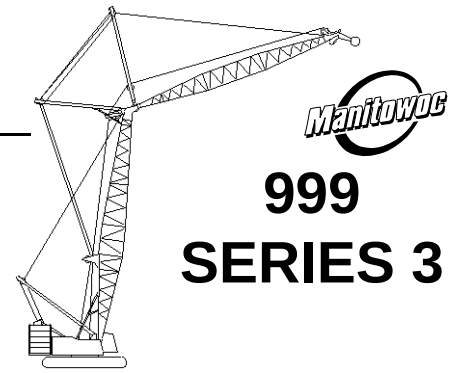
Meets
ANSI B30.5
Requirements

210 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
80 Ft. BOOM			
17	83.0	87.3	342,600 *
18	82.3	87.1	336,900 *
19	81.5	87.0	331,400 *
20	80.8	86.8	319,900 *
22	79.3	86.4	286,100 *
24	77.9	85.9	257,500 *
26	76.4	85.4	212,700
28	74.9	84.8	176,300
30	73.4	84.2	147,300
32	71.9	83.5	123,600
34	70.4	82.7	103,800
36	68.8	81.9	87,100
38	67.3	81.1	72,800
40	65.7	80.1	60,400
90 Ft. BOOM			
19	82.5	97.1	331,900 *
20	81.8	96.9	321,800 *
22	80.5	96.6	288,100 *
24	79.2	96.2	259,700 *
26	77.9	95.7	219,100
28	76.6	95.2	182,600
30	75.3	94.6	153,400
32	74.0	94.0	129,500
34	72.6	93.4	109,700
36	71.3	92.7	92,900
38	69.9	91.9	78,500
40	68.6	91.1	66,000
42	67.2	90.2	55,200
44	65.8	89.3	45,600
100 Ft. BOOM			
20	82.7	107.0	275,100 *
22	81.5	106.7	266,100 *
24	80.3	106.4	257,400 *
26	79.2	105.9	224,500
28	78.0	105.5	187,900
30	76.8	105.0	158,600
32	75.6	104.5	134,600
34	74.4	103.9	114,700
36	73.2	103.3	97,800
38	72.0	102.6	83,400
40	70.8	101.9	70,900
42	69.6	101.1	60,000
44	68.3	100.3	50,300
46	67.1	99.4	41,800
48	65.8	98.5	34,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	248,300 *
24	81.2	116.5	240,600 *
26	80.2	116.2	228,600
28	79.1	115.7	191,800
30	78.0	115.3	162,300
32	77.0	114.8	138,300
34	75.9	114.3	118,300
36	74.8	113.7	101,300
38	73.7	113.1	86,800
40	72.6	112.5	74,300
42	71.5	111.8	63,300
44	70.4	111.0	53,600
46	69.3	110.3	45,000
48	68.2	109.4	37,300
50	67.0	108.6	30,400
120 Ft. BOOM			
22	82.9	127.0	243,700 *
24	82.0	126.7	236,800 *
26	81.0	126.3	230,300 *
28	80.0	125.9	195,300
30	79.1	125.5	165,700
32	78.1	125.1	141,600
34	77.1	124.6	121,500
36	76.1	124.1	104,600
38	75.1	123.5	90,000
40	74.1	123.0	77,400
42	73.1	122.3	66,400
44	72.1	121.7	56,700
46	71.1	121.0	48,100
48	70.1	120.2	40,400
50	69.1	119.4	33,400
55	66.5	117.3	18,800
130 Ft. BOOM			
24	82.6	136.8	224,000 *
26	81.7	136.5	218,200 *
28	80.8	136.1	198,100
30	79.9	135.7	168,600
32	79.0	135.3	144,400
34	78.1	134.9	124,200
36	77.2	134.4	107,200
38	76.3	133.9	92,600
40	75.4	133.4	80,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	68,900
44	73.5	132.2	59,200
46	72.6	131.5	50,500
48	71.7	130.9	42,800
50	70.7	130.1	35,800
55	68.4	128.2	21,200
60	66.0	126.0	9,400
140 Ft. BOOM			
26	82.3	146.6	212,400 *
28	81.5	146.3	200,700
30	80.6	145.9	171,000
32	79.8	145.5	146,800
34	79.0	145.1	126,600
36	78.1	144.7	109,500
38	77.3	144.2	94,900
40	76.4	143.7	82,200
42	75.6	143.2	71,100
44	74.7	142.6	61,400
46	73.9	142.0	52,700
48	73.0	141.4	44,900
50	72.2	140.7	37,900
55	70.0	138.9	23,200
60	67.8	136.9	11,500
150 Ft. BOOM			
26	82.8	156.7	193,900 *
28	82.0	156.4	188,000 *
30	81.3	156.1	172,900
32	80.5	155.7	148,500
34	79.7	155.3	128,300
36	78.9	154.9	111,100
38	78.2	154.5	96,500
40	77.4	154.0	83,700
42	76.6	153.5	72,600
44	75.8	153.0	62,800
46	75.0	152.5	54,100
48	74.2	151.9	46,300
50	73.4	151.3	39,300
55	71.4	149.6	24,500
60	69.4	147.7	12,700



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

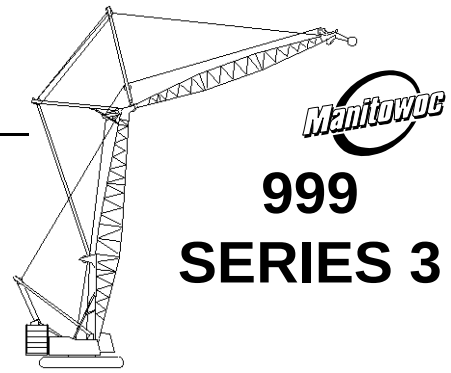
**999
SERIES 3**

210 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
160 Ft. BOOM			
28	82.5	166.5	180,000 *
30	81.8	166.2	174,400 *
32	81.1	165.9	150,200
34	80.4	165.5	129,900
36	79.6	165.1	112,700
38	78.9	164.7	98,000
40	78.2	164.3	85,300
42	77.4	163.8	74,100
44	76.7	163.3	64,300
46	76.0	162.8	55,600
48	75.2	162.3	47,700
50	74.5	161.7	40,700
55	72.6	160.2	25,900
60	70.7	158.4	14,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.6	164,000 *
30	82.3	176.3	159,400 *
32	81.6	176.0	151,600
34	80.9	175.7	131,200
36	80.3	175.3	114,000
38	79.6	174.9	99,300
40	78.9	174.5	86,500
42	78.2	174.1	75,400
44	77.5	173.6	65,500
46	76.8	173.1	56,700
48	76.1	172.6	48,900
50	75.4	172.1	41,900
55	73.7	170.6	27,000
60	71.9	169.0	15,200
65	70.1	167.2	5,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	151,300 *
32	82.1	186.1	147,000 *
34	81.4	185.8	132,400
36	80.8	185.5	115,200
38	80.2	185.1	100,400
40	79.5	184.7	87,600
42	78.9	184.3	76,400
44	78.2	183.9	66,600
46	77.6	183.4	57,800
48	76.9	183.0	49,900
50	76.2	182.5	42,900



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

220 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

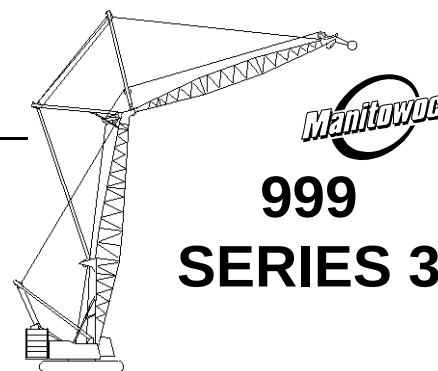
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
17	83.0	87.3	335,600 *
18	82.3	87.1	329,800 *
19	81.5	87.0	324,200 *
20	80.8	86.8	314,900 *
22	79.3	86.4	281,200 *
24	77.9	85.9	249,300
26	76.4	85.4	203,100
28	74.9	84.8	167,200
30	73.4	84.2	138,600
32	71.9	83.5	115,100
34	70.4	82.7	95,600
36	68.8	81.9	79,100
38	67.3	81.1	65,000
40	65.7	80.1	52,800
90 Ft. BOOM			
19	82.5	97.1	325,500 *
20	81.8	96.9	317,000 *
22	80.5	96.6	283,400 *
24	79.2	96.2	255,000 *
26	77.9	95.7	210,100
28	76.6	95.2	174,000
30	75.3	94.6	145,100
32	74.0	94.0	121,600
34	72.6	93.4	101,900
36	71.3	92.7	85,400
38	69.9	91.9	71,200
40	68.6	91.1	58,900
42	67.2	90.2	48,100
44	65.8	89.3	38,700
100 Ft. BOOM			
20	82.7	107.0	269,000 *
22	81.5	106.7	259,800 *
24	80.3	106.4	251,000 *
26	79.2	105.9	215,800
28	78.0	105.5	179,600
30	76.8	105.0	150,700
32	75.6	104.5	127,000
34	74.4	103.9	107,300
36	73.2	103.3	90,700
38	72.0	102.6	76,400
40	70.8	101.9	64,100
42	69.6	101.1	53,300
44	68.3	100.3	43,800
46	67.1	99.4	35,300
48	65.8	98.5	27,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.9	242,700 *
24	81.2	116.5	234,900 *
26	80.2	116.2	220,200
28	79.1	115.7	183,800
30	78.0	115.3	154,800
32	77.0	114.8	131,000
34	75.9	114.3	111,200
36	74.8	113.7	94,500
38	73.7	113.1	80,200
40	72.6	112.5	67,800
42	71.5	111.8	56,900
44	70.4	111.0	47,400
46	69.3	110.3	38,900
48	68.2	109.4	31,300
50	67.0	108.6	24,500
120 Ft. BOOM			
22	82.9	127.0	238,500 *
24	82.0	126.7	231,600 *
26	81.0	126.3	224,100
28	80.0	125.9	187,600
30	79.1	125.5	158,400
32	78.1	125.1	134,600
34	77.1	124.6	114,700
36	76.1	124.1	98,000
38	75.1	123.5	83,600
40	74.1	123.0	71,200
42	73.1	122.3	60,300
44	72.1	121.7	50,700
46	71.1	121.0	42,200
48	70.1	120.2	34,600
50	69.1	119.4	27,700
55	66.5	117.3	13,300
130 Ft. BOOM			
24	82.6	136.8	219,300 *
26	81.7	136.5	213,400 *
28	80.8	136.1	190,700
30	79.9	135.7	161,400
32	79.0	135.3	137,500
34	78.1	134.9	117,600
36	77.2	134.4	100,800
38	76.3	133.9	86,400
40	75.4	133.4	73,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	63,000
44	73.5	132.2	53,400
46	72.6	131.5	44,900
48	71.7	130.9	37,200
50	70.7	130.1	30,300
55	68.4	128.2	15,900
60	66.0	126.0	4,300
140 Ft. BOOM			
26	82.3	146.6	207,900 *
28	81.5	146.3	193,400
30	80.6	145.9	164,100
32	79.8	145.5	140,100
34	79.0	145.1	120,200
36	78.1	144.7	103,300
38	77.3	144.2	88,900
40	76.4	143.7	76,300
42	75.6	143.2	65,400
44	74.7	142.6	55,700
46	73.9	142.0	47,200
48	73.0	141.4	39,500
50	72.2	140.7	32,600
55	70.0	138.9	18,100
60	67.8	136.9	6,500
150 Ft. BOOM			
26	82.8	156.7	190,700 *
28	82.0	156.4	184,700 *
30	81.3	156.1	166,100
32	80.5	155.7	142,100
34	79.7	155.3	122,000
36	78.9	154.9	105,100
38	78.2	154.5	90,600
40	77.4	154.0	78,000
42	76.6	153.5	67,000
44	75.8	153.0	57,400
46	75.0	152.5	48,800
48	74.2	151.9	41,100
50	73.4	151.3	34,100
55	71.4	149.6	19,500

Manitowoc Cranes, Inc.

Manitowoc, Wisconsin 54220 U.S.A.



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

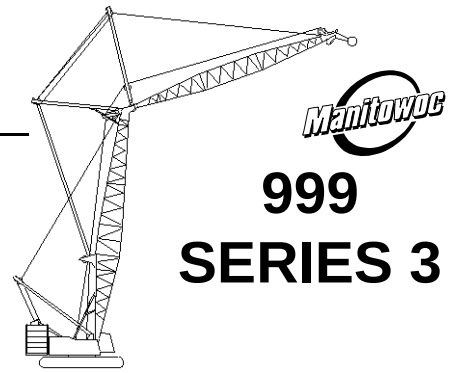
Meets
ANSI B30.5
Requirements

220 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
160 Ft. BOOM			
28	82.5	166.5	176,300 *
30	81.8	166.2	168,000
32	81.1	165.9	143,900
34	80.4	165.5	123,800
36	79.6	165.1	106,800
38	78.9	164.7	92,300
40	78.2	164.3	79,700
42	77.4	163.8	68,700
44	76.7	163.3	59,000
46	76.0	162.8	50,300
48	75.2	162.3	42,600
50	74.5	161.7	35,700
55	72.6	160.2	21,100
60	70.7	158.4	9,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.6	150,300 *
30	82.3	176.3	149,000 *
32	81.6	176.0	145,400
34	80.9	175.7	125,300
36	80.3	175.3	108,300
38	79.6	174.9	93,700
40	78.9	174.5	81,100
42	78.2	174.1	70,000
44	77.5	173.6	60,300
46	76.8	173.1	51,700
48	76.1	172.6	43,900
50	75.4	172.1	37,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	130,400 *
32	82.1	186.1	128,900 *
34	81.4	185.8	126,600
36	80.8	185.5	109,500
38	80.2	185.1	94,900
40	79.5	184.7	82,300
42	78.9	184.3	71,200
44	78.2	183.9	61,500
46	77.6	183.4	52,800
48	76.9	183.0	45,000
50	76.2	182.5	38,100



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

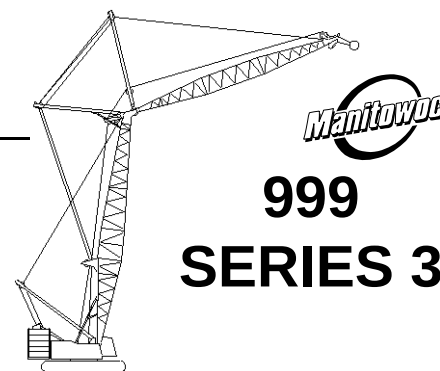
Meets
ANSI B30.5
Requirements

230 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
80 Ft. BOOM			
17	83.0	87.3	329,600 *
18	82.3	87.1	323,600 *
19	81.5	87.0	317,900 *
20	80.8	86.8	310,800 *
22	79.3	86.4	277,100 *
24	77.9	85.9	240,600
26	76.4	85.4	194,900
28	74.9	84.8	159,500
30	73.4	84.2	131,200
32	71.9	83.5	108,100
34	70.4	82.7	88,800
36	68.8	81.9	72,500
38	67.3	81.1	58,600
40	65.7	80.1	46,600
90 Ft. BOOM			
19	82.5	97.1	319,800 *
20	81.8	96.9	313,000 *
22	80.5	96.6	279,600 *
24	79.2	96.2	248,200
26	77.9	95.7	202,300
28	76.6	95.2	166,700
30	75.3	94.6	138,200
32	74.0	94.0	114,900
34	72.6	93.4	95,500
36	71.3	92.7	79,200
38	69.9	91.9	65,200
40	68.6	91.1	53,000
42	67.2	90.2	42,400
44	65.8	89.3	33,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	263,600 *
22	81.5	106.7	254,400 *
24	80.3	106.4	245,400 *
26	79.2	105.9	208,400
28	78.0	105.5	172,600
30	76.8	105.0	144,100
32	75.6	104.5	120,700
34	74.4	103.9	101,300
36	73.2	103.3	84,800
38	72.0	102.6	70,700
40	70.8	101.9	58,600
42	69.6	101.1	47,900
44	68.3	100.3	38,500
46	67.1	99.4	30,200
48	65.8	98.5	22,800
110 Ft. BOOM			
22	82.3	116.9	237,800 *
24	81.2	116.5	229,800 *
26	80.2	116.2	213,100
28	79.1	115.7	177,200
30	78.0	115.3	148,400
32	77.0	114.8	125,000
34	75.9	114.3	105,400
36	74.8	113.7	88,900
38	73.7	113.1	74,800
40	72.6	112.5	62,500
42	71.5	111.8	51,800
44	70.4	111.0	42,400
46	69.3	110.3	34,000
48	68.2	109.4	26,500
50	67.0	108.6	19,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	82.9	127.0	234,000 *
24	82.0	126.7	227,000 *
26	81.0	126.3	217,200
28	80.0	125.9	181,100
30	79.1	125.5	152,300
32	78.1	125.1	128,800
34	77.1	124.6	109,200
36	76.1	124.1	92,600
38	75.1	123.5	78,400
40	74.1	123.0	66,200
42	73.1	122.3	55,400
44	72.1	121.7	46,000
46	71.1	121.0	37,500
48	70.1	120.2	30,000
50	69.1	119.4	23,300
55	66.5	117.3	9,000
130 Ft. BOOM			
24	82.6	136.8	215,200 *
26	81.7	136.5	209,200 *
28	80.8	136.1	184,500
30	79.9	135.7	155,600
32	79.0	135.3	131,900
34	78.1	134.9	112,300
36	77.2	134.4	95,700
38	76.3	133.9	81,400
40	75.4	133.4	69,100
42	74.5	132.8	58,300
44	73.5	132.2	48,800
46	72.6	131.5	40,400
48	71.7	130.9	32,900
50	70.7	130.1	26,100
55	68.4	128.2	11,800



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

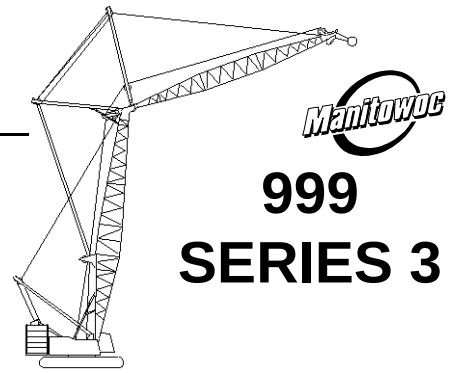
360 Degree Rating

Meets
ANSI B30.5
Requirements

230 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
140 Ft. BOOM			
26	82.3	146.6	204,000 *
28	81.5	146.3	187,400
30	80.6	145.9	158,400
32	79.8	145.5	134,700
34	79.0	145.1	115,000
36	78.1	144.7	98,300
38	77.3	144.2	84,000
40	76.4	143.7	71,700
42	75.6	143.2	60,900
44	74.7	142.6	51,400
46	73.9	142.0	42,900
48	73.0	141.4	35,300
50	72.2	140.7	28,500
55	70.0	138.9	14,200
150 Ft. BOOM			
26	82.8	156.7	187,200 *
28	82.0	156.4	181,900 *
30	81.3	156.1	160,500
32	80.5	155.7	136,800
34	79.7	155.3	117,000
36	78.9	154.9	100,300
38	78.2	154.5	85,900
40	77.4	154.0	73,500
42	76.6	153.5	62,700
44	75.8	153.0	53,100
46	75.0	152.5	44,600
48	74.2	151.9	37,000
50	73.4	151.3	30,200
55	71.4	149.6	15,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.5	173,700 *
30	81.8	166.2	162,500
32	81.1	165.9	138,700
34	80.4	165.5	118,900
36	79.6	165.1	102,100
38	78.9	164.7	87,700
40	78.2	164.3	75,300
42	77.4	163.8	64,400
44	76.7	163.3	54,800
46	76.0	162.8	46,300
48	75.2	162.3	38,700
170 Ft. BOOM			
28	83.0	176.6	158,000 *
30	82.3	176.3	153,400 *
32	81.6	176.0	140,400
34	80.9	175.7	120,500
36	80.3	175.3	103,700
38	79.6	174.9	89,300
40	78.9	174.5	76,800
42	78.2	174.1	65,900
44	77.5	173.6	56,300
46	76.8	173.1	47,700
48	76.1	172.6	40,100
50	75.4	172.1	33,200
180 Ft. BOOM			
30	82.7	186.4	145,200 *
32	82.1	186.1	140,900 *
34	81.4	185.8	121,900
36	80.8	185.5	105,000
38	80.2	185.1	90,600



Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code
Boom No. 82
Luffing Jib No. 149
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

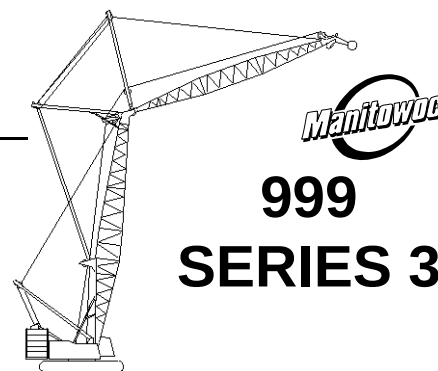
Meets
ANSI B30.5
Requirements

240 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
80 Ft. BOOM			
17	83.0	87.3	322,300 *
18	82.3	87.1	316,200 *
19	81.5	87.0	310,300 *
20	80.8	86.8	304,600 *
22	79.3	86.4	272,000 *
24	77.9	85.9	230,000
26	76.4	85.4	184,900
28	74.9	84.8	150,000
30	73.4	84.2	122,000
32	71.9	83.5	99,200
34	70.4	82.7	80,300
36	68.8	81.9	64,200
38	67.3	81.1	50,500
40	65.7	80.1	38,600
90 Ft. BOOM			
19	82.5	97.1	313,100 *
20	81.8	96.9	307,600 *
22	80.5	96.6	274,600 *
24	79.2	96.2	238,100
26	77.9	95.7	192,800
28	76.6	95.2	157,600
30	75.3	94.6	129,500
32	74.0	94.0	106,600
34	72.6	93.4	87,500
36	71.3	92.7	71,300
38	69.9	91.9	57,500
40	68.6	91.1	45,600
42	67.2	90.2	35,100
44	65.8	89.3	25,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	257,200 *
22	81.5	106.7	247,800 *
24	80.3	106.4	238,600 *
26	79.2	105.9	199,300
28	78.0	105.5	164,000
30	76.8	105.0	135,800
32	75.6	104.5	112,800
34	74.4	103.9	93,600
36	73.2	103.3	77,400
38	72.0	102.6	63,500
40	70.8	101.9	51,500
42	69.6	101.1	41,000
44	68.3	100.3	31,700
46	67.1	99.4	23,500
48	65.8	98.5	16,200
110 Ft. BOOM			
22	82.3	116.9	231,800 *
24	81.2	116.5	223,800 *
26	80.2	116.2	204,300
28	79.1	115.7	168,900
30	78.0	115.3	140,500
32	77.0	114.8	117,300
34	75.9	114.3	98,100
36	74.8	113.7	81,800
38	73.7	113.1	67,800
40	72.6	112.5	55,700
42	71.5	111.8	45,200
44	70.4	111.0	35,900
46	69.3	110.3	27,600
48	68.2	109.4	20,300
50	67.0	108.6	13,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	82.9	127.0	228,600 *
24	82.0	126.7	221,500 *
26	81.0	126.3	208,700
28	80.0	125.9	173,100
30	79.1	125.5	144,700
32	78.1	125.1	121,400
34	77.1	124.6	102,100
36	76.1	124.1	85,700
38	75.1	123.5	71,700
40	74.1	123.0	59,600
42	73.1	122.3	49,000
44	72.1	121.7	39,700
46	71.1	121.0	31,400
48	70.1	120.2	24,000
50	69.1	119.4	17,300
130 Ft. BOOM			
24	82.6	136.8	210,200 *
26	81.7	136.5	204,200 *
28	80.8	136.1	176,700
30	79.9	135.7	148,100
32	79.0	135.3	124,800
34	78.1	134.9	105,400
36	77.2	134.4	89,000
38	76.3	133.9	75,000
40	75.4	133.4	62,800
42	74.5	132.8	52,200
44	73.5	132.2	42,800
46	72.6	131.5	34,500
48	71.7	130.9	27,000
50	70.7	130.1	20,400



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SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

New York City Code

Boom No. 82

Luffing Jib No. 149

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements

240 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
140 Ft. BOOM			
26	82.3	146.6	199,300 *
28	81.5	146.3	179,800
30	80.6	145.9	151,200
32	79.8	145.5	127,800
34	79.0	145.1	108,300
36	78.1	144.7	91,900
38	77.3	144.2	77,800
40	76.4	143.7	65,600
42	75.6	143.2	54,900
44	74.7	142.6	45,500
46	73.9	142.0	37,200
48	73.0	141.4	29,700
50	72.2	140.7	23,000
55	70.0	138.9	8,800
150 Ft. BOOM			
26	82.8	156.7	182,900 *
28	82.0	156.4	178,400 *
30	81.3	156.1	153,500
32	80.5	155.7	130,000
34	79.7	155.3	110,500
36	78.9	154.9	94,000
38	78.2	154.5	79,800
40	77.4	154.0	67,600
42	76.6	153.5	56,900
44	75.8	153.0	47,400
46	75.0	152.5	39,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.5	170,100 *
30	81.8	166.2	155,600
32	81.1	165.9	132,100
34	80.4	165.5	112,500
36	79.6	165.1	96,000
38	78.9	164.7	81,800
40	78.2	164.3	69,500
42	77.4	163.8	58,800
44	76.7	163.3	49,300
46	76.0	162.8	40,900
48	75.2	162.3	33,400
170 Ft. BOOM			
28	83.0	176.6	154,500 *
30	82.3	176.3	150,000 *
32	81.6	176.0	133,900
34	80.9	175.7	114,300
36	80.3	175.3	97,700
180 Ft. BOOM			
30	82.7	186.4	118,000 *
32	82.1	186.1	118,000 *
34	81.4	185.8	115,800
36	80.8	185.5	99,100
38	80.2	185.1	84,900