



999

SERIES 2

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

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. 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.

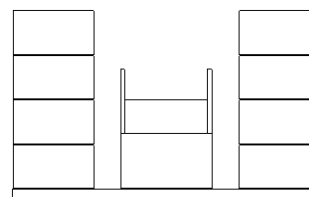
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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

Consult chart **No. 8416-A** for main luffing jib capacities. Consult chart **No. 8345-A** for intermediate fall capacities.

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

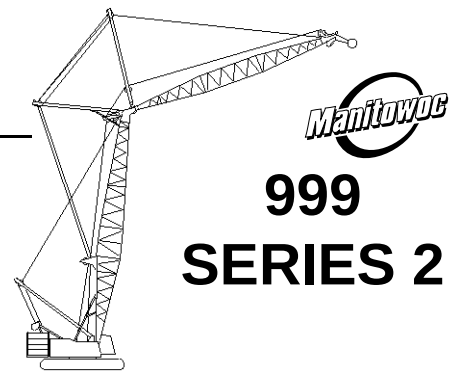
Luffing Jib Position During Operation	
Luffing Jib Length - Feet	Boom To Luffing Jib Angle
70	140 Degrees
80 - 90	150 Degrees
100 - 120	160 Degrees
130 - 240	168 Degrees



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

Boom Catwalks Deduct

Deduct 400 Lbs. from capacities when boom catwalks are attached.



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
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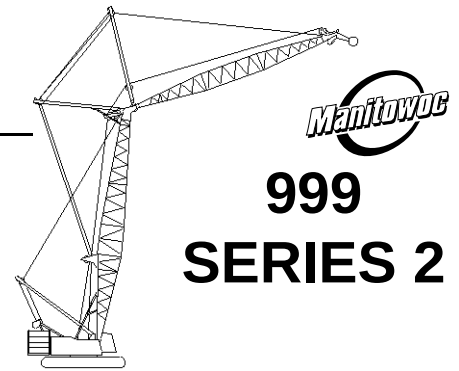
Meets
ANSI B30.5
Requirements

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	401,300 *
18	82.3	87.1	379,000 *
19	81.5	87.0	358,900 *
20	80.8	86.8	340,600 *
22	79.3	86.4	308,600 *
24	77.9	85.9	281,500 *
26	76.4	85.4	258,300 *
28	74.9	84.8	229,500
30	73.4	84.2	202,300
32	71.9	83.5	180,000
34	70.4	82.7	161,400
90 Ft. BOOM			
19	82.5	97.1	358,800 *
20	81.8	96.9	340,500 *
22	80.5	96.6	308,500 *
24	79.2	96.2	281,400 *
26	77.9	95.7	258,200 *
28	76.6	95.2	230,700
30	75.3	94.6	203,400
32	74.0	94.0	181,000
34	72.6	93.4	162,300
36	71.3	92.7	146,600
100 Ft. BOOM			
20	82.7	107.0	333,100 *
22	81.5	106.7	308,800 *
24	80.3	106.4	281,800 *
26	79.2	105.9	258,600 *
28	78.0	105.5	231,800
30	76.8	105.0	204,400
32	75.6	104.5	182,000
34	74.4	103.9	163,300
36	73.2	103.3	147,500
38	72.0	102.6	133,900
40	70.8	101.9	122,200

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	281,400 *
26	80.2	116.2	258,200 *
28	79.1	115.7	232,500
30	78.0	115.3	205,000
32	77.0	114.8	182,500
34	75.9	114.3	163,700
36	74.8	113.7	147,900
38	73.7	113.1	134,300
40	72.6	112.5	122,500
42	71.5	111.8	112,200
44	70.4	111.0	103,100
120 Ft. BOOM			
22	82.9	127.0	292,500 *
24	82.0	126.7	281,500 *
26	81.0	126.3	258,300 *
28	80.0	125.9	233,200
30	79.1	125.5	205,700
32	78.1	125.1	183,100
34	77.1	124.6	164,300
36	76.1	124.1	148,400
38	75.1	123.5	134,800
40	74.1	123.0	122,900
42	73.1	122.3	112,600
44	72.1	121.7	103,500
46	71.1	121.0	95,400
48	70.1	120.2	88,100
130 Ft. BOOM			
24	82.6	136.8	265,500 *
26	81.7	136.5	257,900 *
28	80.8	136.1	233,800
30	79.9	135.7	206,200
32	79.0	135.3	183,600
34	78.1	134.9	164,700
36	77.2	134.4	148,800
38	76.3	133.9	135,100
40	75.4	133.4	123,300
42	74.5	132.8	112,900
44	73.5	132.2	103,800
46	72.6	131.5	95,600
48	71.7	130.9	88,400
50	70.7	130.1	81,800

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	234,400
30	80.6	145.9	206,700
32	79.8	145.5	184,000
34	79.0	145.1	165,100
36	78.1	144.7	149,100
38	77.3	144.2	135,400
40	76.4	143.7	123,600
42	75.6	143.2	113,200
44	74.7	142.6	104,000
46	73.9	142.0	95,900
48	73.0	141.4	88,600
50	72.2	140.7	82,100
150 Ft. BOOM			
26	82.8	156.7	224,700 *
28	82.0	156.4	218,900 *
30	81.3	156.1	206,900
32	80.5	155.7	184,200
34	79.7	155.3	165,300
36	78.9	154.9	149,200
38	78.2	154.5	135,500
40	77.4	154.0	123,600
42	76.6	153.5	113,200
44	75.8	153.0	104,000
46	75.0	152.5	95,800
48	74.2	151.9	88,500
50	73.4	151.3	81,900
55	71.4	149.6	68,100
160 Ft. BOOM			
28	82.5	166.5	211,600 *
30	81.8	166.2	206,100 *
32	81.1	165.9	184,400
34	80.4	165.5	165,400
36	79.6	165.1	149,400
38	78.9	164.7	135,600
40	78.2	164.3	123,700
42	77.4	163.8	113,300
44	76.7	163.3	104,100
46	76.0	162.8	95,900
48	75.2	162.3	88,600
50	74.5	161.7	82,000
55	72.6	160.2	68,100
60	70.7	158.4	56,900



Liftcrane Boom Capacities With Luffing Jib Attached

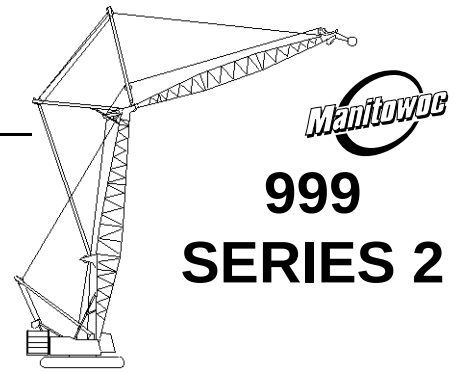
Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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	184,600
34	80.9	175.7	165,600
36	80.3	175.3	149,500
38	79.6	174.9	135,700
40	78.9	174.5	123,800
42	78.2	174.1	113,300
44	77.5	173.6	104,100
46	76.8	173.1	95,900
48	76.1	172.6	88,600
50	75.4	172.1	82,000
55	73.7	170.6	68,000
60	71.9	169.0	56,900
65	70.1	167.2	47,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	182,200 *
32	82.1	186.1	178,000 *
34	81.4	185.8	165,700
36	80.8	185.5	149,600
38	80.2	185.1	135,800
40	79.5	184.7	123,800
42	78.9	184.3	113,300
44	78.2	183.9	104,100
46	77.6	183.4	95,900
48	76.9	183.0	88,500
50	76.2	182.5	81,900
55	74.6	181.1	67,900
60	72.9	179.6	56,800
65	71.2	177.9	47,600



Liftcrane Boom Capacities With Luffing Jib Attached

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184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating**

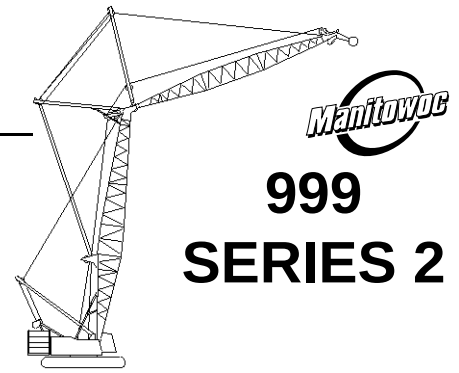
**Meets
ANSI B30.5
Requirements**

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	401,600 *
18	82.3	87.1	379,200 *
19	81.5	87.0	358,900 *
20	80.8	86.8	340,400 *
22	79.3	86.4	308,200 *
24	77.9	85.9	280,900 *
26	76.4	85.4	257,500 *
28	74.9	84.8	228,500
30	73.4	84.2	201,000
32	71.9	83.5	178,500
34	70.4	82.7	159,800
36	68.8	81.9	144,000
38	67.3	81.1	130,400
40	65.7	80.1	118,600
90 Ft. BOOM			
19	82.5	97.1	358,900 *
20	81.8	96.9	340,500 *
22	80.5	96.6	308,200 *
24	79.2	96.2	281,000 *
26	77.9	95.7	257,600 *
28	76.6	95.2	230,000
30	75.3	94.6	202,400
32	74.0	94.0	179,800
34	72.6	93.4	161,000
36	71.3	92.7	145,100
38	69.9	91.9	131,500
40	68.6	91.1	119,600
42	67.2	90.2	109,300
44	65.8	89.3	100,200
100 Ft. BOOM			
20	82.7	107.0	329,700 *
22	81.5	106.7	308,700 *
24	80.3	106.4	281,400 *
26	79.2	105.9	258,100 *
28	78.0	105.5	231,400
30	76.8	105.0	203,700
32	75.6	104.5	181,100
34	74.4	103.9	162,200
36	73.2	103.3	146,200
38	72.0	102.6	132,600
40	70.8	101.9	120,700
42	69.6	101.1	110,400
44	68.3	100.3	101,200
46	67.1	99.4	93,100
48	65.8	98.5	85,800

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	281,200 *
26	80.2	116.2	257,800 *
28	79.1	115.7	232,300
30	78.0	115.3	204,500
32	77.0	114.8	181,800
34	75.9	114.3	162,900
36	74.8	113.7	146,800
38	73.7	113.1	133,100
40	72.6	112.5	121,200
42	71.5	111.8	110,800
44	70.4	111.0	101,600
46	69.3	110.3	93,500
48	68.2	109.4	86,200
50	67.0	108.6	79,600
120 Ft. BOOM			
22	82.9	127.0	289,600 *
24	82.0	126.7	281,300 *
26	81.0	126.3	258,000 *
28	80.0	125.9	233,100
30	79.1	125.5	205,300
32	78.1	125.1	182,500
34	77.1	124.6	163,600
36	76.1	124.1	147,500
38	75.1	123.5	133,800
40	74.1	123.0	121,900
42	73.1	122.3	111,400
44	72.1	121.7	102,200
46	71.1	121.0	94,000
48	70.1	120.2	86,700
50	69.1	119.4	80,100
55	66.5	117.3	66,200
130 Ft. BOOM			
24	82.6	136.8	263,700 *
26	81.7	136.5	256,000 *
28	80.8	136.1	233,800
30	79.9	135.7	206,000
32	79.0	135.3	183,100
34	78.1	134.9	164,100
36	77.2	134.4	148,100
38	76.3	133.9	134,300
40	75.4	133.4	122,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	111,900
44	73.5	132.2	102,600
46	72.6	131.5	94,400
48	71.7	130.9	87,100
50	70.7	130.1	80,500
55	68.4	128.2	66,600
60	66.0	126.0	55,400
140 Ft. BOOM			
26	82.3	146.6	249,200 *
28	81.5	146.3	234,500
30	80.6	145.9	206,500
32	79.8	145.5	183,700
34	79.0	145.1	164,600
36	78.1	144.7	148,500
38	77.3	144.2	134,700
40	76.4	143.7	122,700
42	75.6	143.2	112,300
44	74.7	142.6	103,000
46	73.9	142.0	94,800
48	73.0	141.4	87,500
50	72.2	140.7	80,800
55	70.0	138.9	66,900
60	67.8	136.9	55,700
65	65.5	134.7	46,600
150 Ft. BOOM			
26	82.8	156.7	222,800 *
28	82.0	156.4	216,900 *
30	81.3	156.1	206,900
32	80.5	155.7	184,000
34	79.7	155.3	164,900
36	78.9	154.9	148,700
38	78.2	154.5	134,900
40	77.4	154.0	122,900
42	76.6	153.5	112,400
44	75.8	153.0	103,100
46	75.0	152.5	94,800
48	74.2	151.9	87,500
50	73.4	151.3	80,800
55	71.4	149.6	66,800
60	69.4	147.7	55,600
65	67.3	145.6	46,400
70	65.2	143.4	38,800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

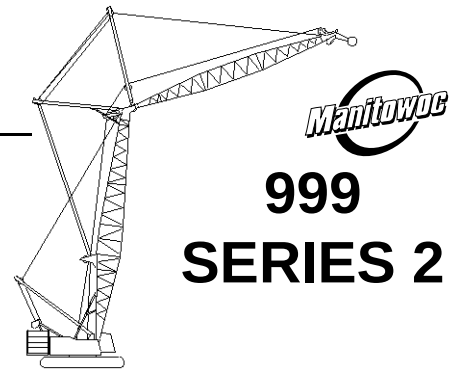
Meets
ANSI B30.5
Requirements

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	184,300
34	80.4	165.5	165,200
36	79.6	165.1	149,000
38	78.9	164.7	135,100
40	78.2	164.3	123,100
42	77.4	163.8	112,500
44	76.7	163.3	103,200
46	76.0	162.8	95,000
48	75.2	162.3	87,600
50	74.5	161.7	80,900
55	72.6	160.2	66,900
60	70.7	158.4	55,700
65	68.8	156.5	46,500
70	66.8	154.4	38,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	165,400
36	80.3	175.3	149,200
38	79.6	174.9	135,200
40	78.9	174.5	123,200
42	78.2	174.1	112,600
44	77.5	173.6	103,300
46	76.8	173.1	95,100
48	76.1	172.6	87,700
50	75.4	172.1	81,000
55	73.7	170.6	66,900
60	71.9	169.0	55,700
65	70.1	167.2	46,500
70	68.3	165.3	38,800
75	66.4	163.1	32,300

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	165,500
36	80.8	185.5	149,300
38	80.2	185.1	135,400
40	79.5	184.7	123,300
42	78.9	184.3	112,700
44	78.2	183.9	103,400
46	77.6	183.4	95,100
48	76.9	183.0	87,700
50	76.2	182.5	81,000
55	74.6	181.1	66,900
60	72.9	179.6	55,700
65	71.2	177.9	46,400
70	69.5	176.0	38,800
75	67.8	174.0	32,300
80	66.1	171.8	26,700



Liftcrane Boom Capacities With Luffing Jib Attached

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**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	397,100 *
18	82.3	87.1	374,800 *
19	81.5	87.0	354,700 *
20	80.8	86.8	336,300 *
22	79.3	86.4	304,300 *
24	77.9	85.9	277,100 *
26	76.4	85.4	253,900 *
28	74.9	84.8	223,100
30	73.4	84.2	196,000
32	71.9	83.5	173,800
34	70.4	82.7	155,300
36	68.8	81.9	139,700
38	67.3	81.1	126,300
40	65.7	80.1	114,700
90 Ft. BOOM			
19	82.5	97.1	354,700 *
20	81.8	96.9	336,400 *
22	80.5	96.6	304,400 *
24	79.2	96.2	277,300 *
26	77.9	95.7	254,100 *
28	76.6	95.2	224,800
30	75.3	94.6	197,500
32	74.0	94.0	175,200
34	72.6	93.4	156,700
36	71.3	92.7	141,000
38	69.9	91.9	127,500
40	68.6	91.1	115,800
42	67.2	90.2	105,600
44	65.8	89.3	96,600
100 Ft. BOOM			
20	82.7	107.0	327,200 *
22	81.5	106.7	304,900 *
24	80.3	106.4	277,800 *
26	79.2	105.9	254,600 *
28	78.0	105.5	226,200
30	76.8	105.0	198,900
32	75.6	104.5	176,600
34	74.4	103.9	158,000
36	73.2	103.3	142,200
38	72.0	102.6	128,700
40	70.8	101.9	117,000
42	69.6	101.1	106,800
44	68.3	100.3	97,800
46	67.1	99.4	89,700
48	65.8	98.5	82,600

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	277,600 *
26	80.2	116.2	254,400 *
28	79.1	115.7	227,200
30	78.0	115.3	199,800
32	77.0	114.8	177,400
34	75.9	114.3	158,700
36	74.8	113.7	142,900
38	73.7	113.1	129,400
40	72.6	112.5	117,600
42	71.5	111.8	107,300
44	70.4	111.0	98,300
46	69.3	110.3	90,200
48	68.2	109.4	83,000
50	67.0	108.6	76,500
120 Ft. BOOM			
22	82.9	127.0	287,500 *
24	82.0	126.7	277,800 *
26	81.0	126.3	254,700 *
28	80.0	125.9	228,200
30	79.1	125.5	200,700
32	78.1	125.1	178,200
34	77.1	124.6	159,500
36	76.1	124.1	143,700
38	75.1	123.5	130,100
40	74.1	123.0	118,300
42	73.1	122.3	108,000
44	72.1	121.7	98,900
46	71.1	121.0	90,900
48	70.1	120.2	83,600
50	69.1	119.4	77,100
55	66.5	117.3	63,400
130 Ft. BOOM			
24	82.6	136.8	262,500 *
26	81.7	136.5	254,600 *
28	80.8	136.1	229,000
30	79.9	135.7	201,400
32	79.0	135.3	178,900
34	78.1	134.9	160,100
36	77.2	134.4	144,300
38	76.3	133.9	130,600
40	75.4	133.4	118,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	108,500
44	73.5	132.2	99,400
46	72.6	131.5	91,300
48	71.7	130.9	84,100
50	70.7	130.1	77,600
55	68.4	128.2	63,800
60	66.0	126.0	52,800
140 Ft. BOOM			
26	82.3	146.6	247,900 *
28	81.5	146.3	229,700
30	80.6	145.9	202,100
32	79.8	145.5	179,500
34	79.0	145.1	160,700
36	78.1	144.7	144,800
38	77.3	144.2	131,100
40	76.4	143.7	119,300
42	75.6	143.2	109,000
44	74.7	142.6	99,900
46	73.9	142.0	91,700
48	73.0	141.4	84,500
50	72.2	140.7	78,000
55	70.0	138.9	64,200
60	67.8	136.9	53,100
65	65.5	134.7	44,100
150 Ft. BOOM			
26	82.8	156.7	221,500 *
28	82.0	156.4	215,700 *
30	81.3	156.1	202,500
32	80.5	155.7	179,900
34	79.7	155.3	161,000
36	78.9	154.9	145,000
38	78.2	154.5	131,300
40	77.4	154.0	119,500
42	76.6	153.5	109,100
44	75.8	153.0	100,000
46	75.0	152.5	91,800
48	74.2	151.9	84,500
50	73.4	151.3	78,000
55	71.4	149.6	64,200
60	69.4	147.7	53,100
65	67.3	145.6	44,000
70	65.2	143.4	36,500



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

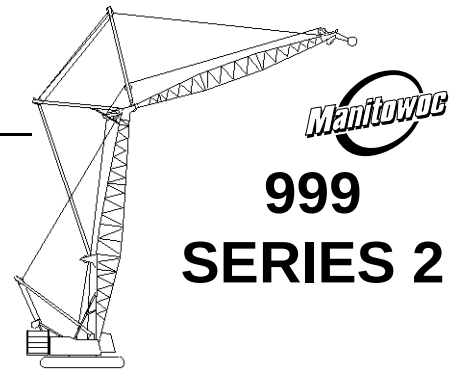
Meets
ANSI B30.5
Requirements

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	180,200
34	80.4	165.5	161,300
36	79.6	165.1	145,300
38	78.9	164.7	131,600
40	78.2	164.3	119,700
42	77.4	163.8	109,300
44	76.7	163.3	100,200
46	76.0	162.8	92,000
48	75.2	162.3	84,700
50	74.5	161.7	78,100
55	72.6	160.2	64,300
60	70.7	158.4	53,200
65	68.8	156.5	44,100
70	66.8	154.4	36,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.6	191,300 *
30	82.3	176.3	186,800 *
32	81.6	176.0	180,500
34	80.9	175.7	161,600
36	80.3	175.3	145,500
38	79.6	174.9	131,800
40	78.9	174.5	119,900
42	78.2	174.1	109,500
44	77.5	173.6	100,300
46	76.8	173.1	92,100
48	76.1	172.6	84,800
50	75.4	172.1	78,200
55	73.7	170.6	64,300
60	71.9	169.0	53,200
65	70.1	167.2	44,200
70	68.3	165.3	36,600
75	66.4	163.1	30,200

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	161,800
36	80.8	185.5	145,700
38	80.2	185.1	132,000
40	79.5	184.7	120,000
42	78.9	184.3	109,600
44	78.2	183.9	100,400
46	77.6	183.4	92,200
48	76.9	183.0	84,900
50	76.2	182.5	78,300
55	74.6	181.1	64,400
60	72.9	179.6	53,200
65	71.2	177.9	44,100
70	69.5	176.0	36,600
75	67.8	174.0	30,100
80	66.1	171.8	24,600



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

**Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	377,800 *
19	81.5	87.0	357,300 *
20	80.8	86.8	338,700 *
22	79.3	86.4	306,100 *
24	77.9	85.9	278,500 *
26	76.4	85.4	254,900 *
28	74.9	84.8	224,900
30	73.4	84.2	197,200
32	71.9	83.5	174,500
34	70.4	82.7	155,700
36	68.8	81.9	139,700
38	67.3	81.1	126,000
40	65.7	80.1	114,100
90 Ft. BOOM			
19	82.5	97.1	357,600 *
20	81.8	96.9	339,000 *
22	80.5	96.6	306,400 *
24	79.2	96.2	278,900 *
26	77.9	95.7	255,300 *
28	76.6	95.2	226,900
30	75.3	94.6	199,100
32	74.0	94.0	176,400
34	72.6	93.4	157,400
36	71.3	92.7	141,300
38	69.9	91.9	127,600
40	68.6	91.1	115,700
42	67.2	90.2	105,200
44	65.8	89.3	96,000
100 Ft. BOOM			
20	82.7	107.0	323,200 *
22	81.5	106.7	307,100 *
24	80.3	106.4	279,600 *
26	79.2	105.9	256,000 *
28	78.0	105.5	228,700
30	76.8	105.0	200,800
32	75.6	104.5	178,000
34	74.4	103.9	159,000
36	73.2	103.3	142,900
38	72.0	102.6	129,100
40	70.8	101.9	117,200
42	69.6	101.1	106,700
44	68.3	100.3	97,500
46	67.1	99.4	89,300
48	65.8	98.5	81,900

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	279,500 *
26	80.2	116.2	256,000 *
28	79.1	115.7	229,900
30	78.0	115.3	202,000
32	77.0	114.8	179,100
34	75.9	114.3	160,000
36	74.8	113.7	143,800
38	73.7	113.1	130,000
40	72.6	112.5	118,000
42	71.5	111.8	107,500
44	70.4	111.0	98,200
46	69.3	110.3	90,000
48	68.2	109.4	82,600
50	67.0	108.6	76,000
120 Ft. BOOM			
22	82.9	127.0	284,100 *
24	82.0	126.7	278,000 *
26	81.0	126.3	256,300 *
28	80.0	125.9	231,100
30	79.1	125.5	203,000
32	78.1	125.1	180,100
34	77.1	124.6	161,000
36	76.1	124.1	144,800
38	75.1	123.5	130,900
40	74.1	123.0	118,900
42	73.1	122.3	108,400
44	72.1	121.7	99,100
46	71.1	121.0	90,800
48	70.1	120.2	83,500
50	69.1	119.4	76,800
55	66.5	117.3	62,800
130 Ft. BOOM			
24	82.6	136.8	260,200 *
26	81.7	136.5	252,500 *
28	80.8	136.1	232,000
30	79.9	135.7	203,900
32	79.0	135.3	180,900
34	78.1	134.9	161,800
36	77.2	134.4	145,500
38	76.3	133.9	131,600
40	75.4	133.4	119,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	109,000
44	73.5	132.2	99,700
46	72.6	131.5	91,500
48	71.7	130.9	84,100
50	70.7	130.1	77,400
55	68.4	128.2	63,400
60	66.0	126.0	52,100
140 Ft. BOOM			
26	82.3	146.6	245,600 *
28	81.5	146.3	232,900
30	80.6	145.9	204,700
32	79.8	145.5	181,700
34	79.0	145.1	162,500
36	78.1	144.7	146,200
38	77.3	144.2	132,300
40	76.4	143.7	120,200
42	75.6	143.2	109,600
44	74.7	142.6	100,300
46	73.9	142.0	92,000
48	73.0	141.4	84,600
50	72.2	140.7	77,900
55	70.0	138.9	63,900
60	67.8	136.9	52,600
65	65.5	134.7	43,400
150 Ft. BOOM			
26	82.8	156.7	219,300 *
28	82.0	156.4	213,400 *
30	81.3	156.1	205,300
32	80.5	155.7	182,200
34	79.7	155.3	162,900
36	78.9	154.9	146,600
38	78.2	154.5	132,600
40	77.4	154.0	120,500
42	76.6	153.5	109,900
44	75.8	153.0	100,500
46	75.0	152.5	92,200
48	74.2	151.9	84,800
50	73.4	151.3	78,100
55	71.4	149.6	64,000
60	69.4	147.7	52,700
65	67.3	145.6	43,400
70	65.2	143.4	35,700



999

SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

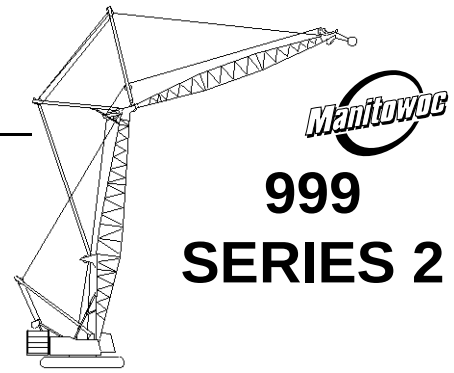
Meets
ANSI B30.5
Requirements

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	182,600
34	80.4	165.5	163,300
36	79.6	165.1	147,000
38	78.9	164.7	133,000
40	78.2	164.3	120,800
42	77.4	163.8	110,200
44	76.7	163.3	100,900
46	76.0	162.8	92,500
48	75.2	162.3	85,100
50	74.5	161.7	78,400
55	72.6	160.2	64,200
60	70.7	158.4	52,900
65	68.8	156.5	43,600
70	66.8	154.4	35,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	163,700
36	80.3	175.3	147,300
38	79.6	174.9	133,300
40	78.9	174.5	121,100
42	78.2	174.1	110,500
44	77.5	173.6	101,100
46	76.8	173.1	92,700
48	76.1	172.6	85,300
50	75.4	172.1	78,600
55	73.7	170.6	64,400
60	71.9	169.0	53,000
65	70.1	167.2	43,700
70	68.3	165.3	36,000
75	66.4	163.1	29,400

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	163,900
36	80.8	185.5	147,600
38	80.2	185.1	133,500
40	79.5	184.7	121,300
42	78.9	184.3	110,700
44	78.2	183.9	101,300
46	77.6	183.4	92,900
48	76.9	183.0	85,400
50	76.2	182.5	78,700
55	74.6	181.1	64,500
60	72.9	179.6	53,100
65	71.2	177.9	43,800
70	69.5	176.0	36,100
75	67.8	174.0	29,500
80	66.1	171.8	23,900



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	374,900 *
19	81.5	87.0	354,500 *
20	80.8	86.8	335,900 *
22	79.3	86.4	303,400 *
24	77.9	85.9	275,900 *
26	76.4	85.4	252,300 *
28	74.9	84.8	221,000
30	73.4	84.2	193,600
32	71.9	83.5	171,100
34	70.4	82.7	152,400
36	68.8	81.9	136,500
38	67.3	81.1	122,900
40	65.7	80.1	111,200
90 Ft. BOOM			
19	82.5	97.1	354,800 *
20	81.8	96.9	336,200 *
22	80.5	96.6	303,800 *
24	79.2	96.2	276,400 *
26	77.9	95.7	252,800 *
28	76.6	95.2	223,200
30	75.3	94.6	195,600
32	74.0	94.0	173,000
34	72.6	93.4	154,200
36	71.3	92.7	138,300
38	69.9	91.9	124,700
40	68.6	91.1	112,900
42	67.2	90.2	102,500
44	65.8	89.3	93,400
100 Ft. BOOM			
20	82.7	107.0	320,100 *
22	81.5	106.7	304,500 *
24	80.3	106.4	277,100 *
26	79.2	105.9	253,600 *
28	78.0	105.5	225,100
30	76.8	105.0	197,400
32	75.6	104.5	174,800
34	74.4	103.9	155,900
36	73.2	103.3	140,000
38	72.0	102.6	126,300
40	70.8	101.9	114,500
42	69.6	101.1	104,100
44	68.3	100.3	94,900
46	67.1	99.4	86,800
48	65.8	98.5	79,500

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	277,100 *
26	80.2	116.2	253,600 *
28	79.1	115.7	226,400
30	78.0	115.3	198,700
32	77.0	114.8	176,000
34	75.9	114.3	157,000
36	74.8	113.7	141,000
38	73.7	113.1	127,300
40	72.6	112.5	115,400
42	71.5	111.8	105,000
44	70.4	111.0	95,800
46	69.3	110.3	87,600
48	68.2	109.4	80,300
50	67.0	108.6	73,800
120 Ft. BOOM			
22	82.9	127.0	281,500 *
24	82.0	126.7	275,400 *
26	81.0	126.3	254,100 *
28	80.0	125.9	227,700
30	79.1	125.5	199,800
32	78.1	125.1	177,100
34	77.1	124.6	158,100
36	76.1	124.1	142,100
38	75.1	123.5	128,300
40	74.1	123.0	116,400
42	73.1	122.3	105,900
44	72.1	121.7	96,700
46	71.1	121.0	88,600
48	70.1	120.2	81,200
50	69.1	119.4	74,600
55	66.5	117.3	60,700
130 Ft. BOOM			
24	82.6	136.8	258,600 *
26	81.7	136.5	250,800 *
28	80.8	136.1	228,700
30	79.9	135.7	200,800
32	79.0	135.3	178,000
34	78.1	134.9	159,000
36	77.2	134.4	142,900
38	76.3	133.9	129,100
40	75.4	133.4	117,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	106,700
44	73.5	132.2	97,500
46	72.6	131.5	89,300
48	71.7	130.9	81,900
50	70.7	130.1	75,300
55	68.4	128.2	61,400
60	66.0	126.0	50,200
140 Ft. BOOM			
26	82.3	146.6	243,800 *
28	81.5	146.3	229,600
30	80.6	145.9	201,700
32	79.8	145.5	178,800
34	79.0	145.1	159,700
36	78.1	144.7	143,600
38	77.3	144.2	129,800
40	76.4	143.7	117,800
42	75.6	143.2	107,300
44	74.7	142.6	98,100
46	73.9	142.0	89,900
48	73.0	141.4	82,500
50	72.2	140.7	75,900
55	70.0	138.9	61,900
60	67.8	136.9	50,700
65	65.5	134.7	41,600
150 Ft. BOOM			
26	82.8	156.7	217,600 *
28	82.0	156.4	211,800 *
30	81.3	156.1	202,300
32	80.5	155.7	179,300
34	79.7	155.3	160,200
36	78.9	154.9	144,000
38	78.2	154.5	130,200
40	77.4	154.0	118,200
42	76.6	153.5	107,600
44	75.8	153.0	98,400
46	75.0	152.5	90,100
48	74.2	151.9	82,700
50	73.4	151.3	76,100
55	71.4	149.6	62,100
60	69.4	147.7	50,900
65	67.3	145.6	41,700
70	65.2	143.4	34,000



999

SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

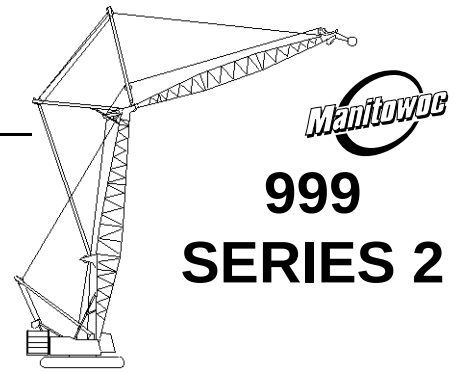
Meets
ANSI B30.5
Requirements

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	179,800
34	80.4	165.5	160,700
36	79.6	165.1	144,500
38	78.9	164.7	130,600
40	78.2	164.3	118,500
42	77.4	163.8	108,000
44	76.7	163.3	98,700
46	76.0	162.8	90,500
48	75.2	162.3	83,100
50	74.5	161.7	76,400
55	72.6	160.2	62,400
60	70.7	158.4	51,100
65	68.8	156.5	41,900
70	66.8	154.4	34,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	161,100
36	80.3	175.3	144,800
38	79.6	174.9	130,900
40	78.9	174.5	118,900
42	78.2	174.1	108,300
44	77.5	173.6	99,000
46	76.8	173.1	90,700
48	76.1	172.6	83,300
50	75.4	172.1	76,600
55	73.7	170.6	62,600
60	71.9	169.0	51,300
65	70.1	167.2	42,100
70	68.3	165.3	34,400
75	66.4	163.1	27,900

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	161,400
36	80.8	185.5	145,100
38	80.2	185.1	131,200
40	79.5	184.7	119,100
42	78.9	184.3	108,500
44	78.2	183.9	99,200
46	77.6	183.4	90,900
48	76.9	183.0	83,500
50	76.2	182.5	76,800
55	74.6	181.1	62,700
60	72.9	179.6	51,400
65	71.2	177.9	42,200
70	69.5	176.0	34,500
75	67.8	174.0	28,000
80	66.1	171.8	22,400



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	369,900 *
19	81.5	87.0	349,600 *
20	80.8	86.8	331,100 *
22	79.3	86.4	298,800 *
24	77.9	85.9	271,400 *
26	76.4	85.4	248,000 *
28	74.9	84.8	214,600
30	73.4	84.2	187,500
32	71.9	83.5	165,300
34	70.4	82.7	146,800
36	68.8	81.9	131,200
38	67.3	81.1	117,800
40	65.7	80.1	106,200
90 Ft. BOOM			
19	82.5	97.1	350,100 *
20	81.8	96.9	331,600 *
22	80.5	96.6	299,300 *
24	79.2	96.2	272,000 *
26	77.9	95.7	248,600 *
28	76.6	95.2	217,000
30	75.3	94.6	189,800
32	74.0	94.0	167,500
34	72.6	93.4	148,900
36	71.3	92.7	133,200
38	69.9	91.9	119,700
40	68.6	91.1	108,100
42	67.2	90.2	97,900
44	65.8	89.3	88,900
100 Ft. BOOM			
20	82.7	107.0	315,200 *
22	81.5	106.7	300,200 *
24	80.3	106.4	272,900 *
26	79.2	105.9	249,500 *
28	78.0	105.5	219,100
30	76.8	105.0	191,800
32	75.6	104.5	169,400
34	74.4	103.9	150,800
36	73.2	103.3	135,100
38	72.0	102.6	121,500
40	70.8	101.9	109,800
42	69.6	101.1	99,600
44	68.3	100.3	90,600
46	67.1	99.4	82,600
48	65.8	98.5	75,400

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	273,000 *
26	80.2	116.2	249,600 *
28	79.1	115.7	220,600
30	78.0	115.3	193,200
32	77.0	114.8	170,700
34	75.9	114.3	152,000
36	74.8	113.7	136,200
38	73.7	113.1	122,700
40	72.6	112.5	110,900
42	71.5	111.8	100,600
44	70.4	111.0	91,600
46	69.3	110.3	83,500
48	68.2	109.4	76,300
50	67.0	108.6	69,800
120 Ft. BOOM			
22	82.9	127.0	277,300 *
24	82.0	126.7	271,200 *
26	81.0	126.3	250,100 *
28	80.0	125.9	222,000
30	79.1	125.5	194,500
32	78.1	125.1	172,000
34	77.1	124.6	153,200
36	76.1	124.1	137,400
38	75.1	123.5	123,800
40	74.1	123.0	112,000
42	73.1	122.3	101,700
44	72.1	121.7	92,600
46	71.1	121.0	84,600
48	70.1	120.2	77,300
50	69.1	119.4	70,800
55	66.5	117.3	57,100
130 Ft. BOOM			
24	82.6	136.8	254,900 *
26	81.7	136.5	248,000 *
28	80.8	136.1	223,100
30	79.9	135.7	195,600
32	79.0	135.3	173,000
34	78.1	134.9	154,200
36	77.2	134.4	138,300
38	76.3	133.9	124,700
40	75.4	133.4	112,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	102,600
44	73.5	132.2	93,500
46	72.6	131.5	85,400
48	71.7	130.9	78,100
50	70.7	130.1	71,600
55	68.4	128.2	57,800
60	66.0	126.0	46,800
140 Ft. BOOM			
26	82.3	146.6	240,900 *
28	81.5	146.3	224,100
30	80.6	145.9	196,500
32	79.8	145.5	173,900
34	79.0	145.1	155,100
36	78.1	144.7	139,200
38	77.3	144.2	125,500
40	76.4	143.7	113,700
42	75.6	143.2	103,300
44	74.7	142.6	94,200
46	73.9	142.0	86,100
48	73.0	141.4	78,800
50	72.2	140.7	72,300
55	70.0	138.9	58,500
60	67.8	136.9	47,400
65	65.5	134.7	38,400
150 Ft. BOOM			
26	82.8	156.7	214,900 *
28	82.0	156.4	209,000 *
30	81.3	156.1	197,200
32	80.5	155.7	174,500
34	79.7	155.3	155,600
36	78.9	154.9	139,700
38	78.2	154.5	126,000
40	77.4	154.0	114,100
42	76.6	153.5	103,700
44	75.8	153.0	94,500
46	75.0	152.5	86,400
48	74.2	151.9	79,100
50	73.4	151.3	72,500
55	71.4	149.6	58,700
60	69.4	147.7	47,600
65	67.3	145.6	38,500
70	65.2	143.4	31,000



999

SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

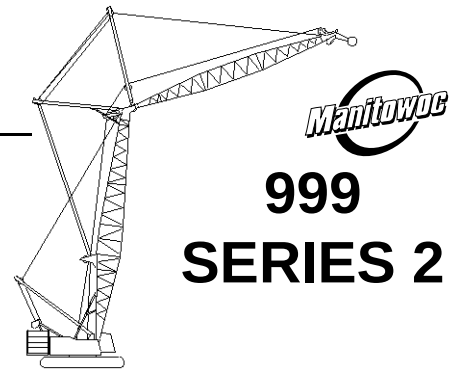
Meets
ANSI B30.5
Requirements

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	175,100
34	80.4	165.5	156,200
36	79.6	165.1	140,200
38	78.9	164.7	126,400
40	78.2	164.3	114,500
42	77.4	163.8	104,100
44	76.7	163.3	94,900
46	76.0	162.8	86,800
48	75.2	162.3	79,500
50	74.5	161.7	72,900
55	72.6	160.2	59,000
60	70.7	158.4	47,900
65	68.8	156.5	38,900
70	66.8	154.4	31,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.6	184,700 *
30	82.3	176.3	180,200 *
32	81.6	176.0	175,600
34	80.9	175.7	156,600
36	80.3	175.3	140,600
38	79.6	174.9	126,800
40	78.9	174.5	114,900
42	78.2	174.1	104,500
44	77.5	173.6	95,300
46	76.8	173.1	87,100
48	76.1	172.6	79,800
50	75.4	172.1	73,200
55	73.7	170.6	59,300
60	71.9	169.0	48,200
65	70.1	167.2	39,100
70	68.3	165.3	31,500
75	66.4	163.1	25,100

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	157,000
36	80.8	185.5	140,900
38	80.2	185.1	127,200
40	79.5	184.7	115,200
42	78.9	184.3	104,800
44	78.2	183.9	95,500
46	77.6	183.4	87,300
48	76.9	183.0	80,000
50	76.2	182.5	73,400
55	74.6	181.1	59,500
60	72.9	179.6	48,300
65	71.2	177.9	39,200
70	69.5	176.0	31,600
75	67.8	174.0	25,200
80	66.1	171.8	19,700



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

**Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating**

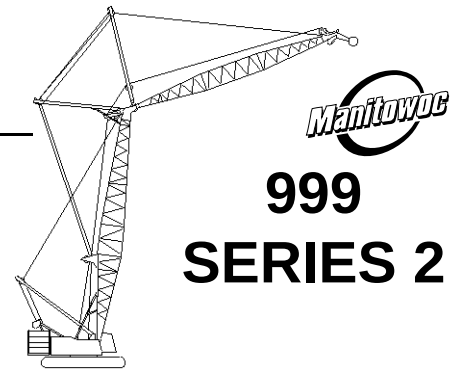
**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
80 Ft. BOOM			
17	83.0	87.3	385,200 *
18	82.3	87.1	375,800 *
19	81.5	87.0	355,000 *
20	80.8	86.8	336,100 *
22	79.3	86.4	303,100 *
24	77.9	85.9	275,100 *
26	76.4	85.4	251,100 *
28	74.9	84.8	219,500
30	73.4	84.2	191,500
32	71.9	83.5	168,600
34	70.4	82.7	149,500
36	68.8	81.9	133,400
38	67.3	81.1	119,500
40	65.7	80.1	107,500
90 Ft. BOOM			
19	82.5	97.1	355,700 *
20	81.8	96.9	336,800 *
22	80.5	96.6	303,800 *
24	79.2	96.2	275,900 *
26	77.9	95.7	252,000 *
28	76.6	95.2	222,300
30	75.3	94.6	194,200
32	74.0	94.0	171,200
34	72.6	93.4	152,000
36	71.3	92.7	135,800
38	69.9	91.9	121,900
40	68.6	91.1	109,900
42	67.2	90.2	99,300
44	65.8	89.3	90,000
100 Ft. BOOM			
20	82.7	107.0	312,400 *
22	81.5	106.7	304,100 *
24	80.3	106.4	277,000 *
26	79.2	105.9	253,100 *
28	78.0	105.5	224,700
30	76.8	105.0	196,500
32	75.6	104.5	173,500
34	74.4	103.9	154,300
36	73.2	103.3	138,000
38	72.0	102.6	124,100
40	70.8	101.9	112,000
42	69.6	101.1	101,400
44	68.3	100.3	92,100
46	67.1	99.4	83,800
48	65.8	98.5	76,300

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	253,300 *
28	79.1	115.7	226,500
30	78.0	115.3	198,200
32	77.0	114.8	175,000
34	75.9	114.3	155,700
36	74.8	113.7	139,400
38	73.7	113.1	125,400
40	72.6	112.5	113,300
42	71.5	111.8	102,700
44	70.4	111.0	93,300
46	69.3	110.3	85,000
48	68.2	109.4	77,600
50	67.0	108.6	70,800
120 Ft. BOOM			
22	82.9	127.0	275,100 *
24	82.0	126.7	268,800 *
26	81.0	126.3	254,000 *
28	80.0	125.9	228,100
30	79.1	125.5	199,700
32	78.1	125.1	176,500
34	77.1	124.6	157,200
36	76.1	124.1	140,800
38	75.1	123.5	126,800
40	74.1	123.0	114,600
42	73.1	122.3	104,000
44	72.1	121.7	94,600
46	71.1	121.0	86,300
48	70.1	120.2	78,800
50	69.1	119.4	72,100
55	66.5	117.3	57,900
130 Ft. BOOM			
24	82.6	136.8	252,900 *
26	81.7	136.5	246,800 *
28	80.8	136.1	229,400
30	79.9	135.7	201,000
32	79.0	135.3	177,700
34	78.1	134.9	158,300
36	77.2	134.4	141,900
38	76.3	133.9	127,900
40	75.4	133.4	115,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	105,000
44	73.5	132.2	95,600
46	72.6	131.5	87,200
48	71.7	130.9	79,800
50	70.7	130.1	73,000
55	68.4	128.2	58,800
60	66.0	126.0	47,400
140 Ft. BOOM			
26	82.3	146.6	239,600 *
28	81.5	146.3	230,600
30	80.6	145.9	202,100
32	79.8	145.5	178,800
34	79.0	145.1	159,300
36	78.1	144.7	142,900
38	77.3	144.2	128,800
40	76.4	143.7	116,600
42	75.6	143.2	105,900
44	74.7	142.6	96,500
46	73.9	142.0	88,100
48	73.0	141.4	80,600
50	72.2	140.7	73,800
55	70.0	138.9	59,600
60	67.8	136.9	48,200
65	65.5	134.7	38,900
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	179,500
34	79.7	155.3	160,000
36	78.9	154.9	143,500
38	78.2	154.5	129,400
40	77.4	154.0	117,100
42	76.6	153.5	106,400
44	75.8	153.0	97,000
46	75.0	152.5	88,600
48	74.2	151.9	81,000
50	73.4	151.3	74,300
55	71.4	149.6	60,000
60	69.4	147.7	48,500
65	67.3	145.6	39,200
70	65.2	143.4	31,400



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

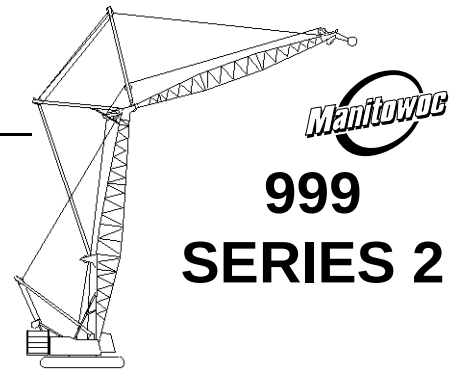
Meets
ANSI B30.5
Requirements

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.5	200,200 *
30	81.8	166.2	194,600 *
32	81.1	165.9	180,200
34	80.4	165.5	160,700
36	79.6	165.1	144,100
38	78.9	164.7	130,000
40	78.2	164.3	117,700
42	77.4	163.8	107,000
44	76.7	163.3	97,500
46	76.0	162.8	89,100
48	75.2	162.3	81,500
50	74.5	161.7	74,700
55	72.6	160.2	60,400
60	70.7	158.4	49,000
65	68.8	156.5	39,600
70	66.8	154.4	31,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	161,200
36	80.3	175.3	144,700
38	79.6	174.9	130,500
40	78.9	174.5	118,200
42	78.2	174.1	107,400
44	77.5	173.6	97,900
46	76.8	173.1	89,500
48	76.1	172.6	81,900
50	75.4	172.1	75,100
55	73.7	170.6	60,800
60	71.9	169.0	49,300
65	70.1	167.2	39,900
70	68.3	165.3	32,100
75	66.4	163.1	25,400

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	161,700
36	80.8	185.5	145,100
38	80.2	185.1	130,900
40	79.5	184.7	118,600
42	78.9	184.3	107,800
44	78.2	183.9	98,300
46	77.6	183.4	89,800
48	76.9	183.0	82,200
50	76.2	182.5	75,400
55	74.6	181.1	61,100
60	72.9	179.6	49,500
65	71.2	177.9	40,100
70	69.5	176.0	32,300
75	67.8	174.0	25,600
80	66.1	171.8	20,000



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	371,700 *
19	81.5	87.0	350,900 *
20	80.8	86.8	332,100 *
22	79.3	86.4	299,100 *
24	77.9	85.9	271,200 *
26	76.4	85.4	247,200 *
28	74.9	84.8	213,800
30	73.4	84.2	186,000
32	71.9	83.5	163,300
34	70.4	82.7	144,400
36	68.8	81.9	128,400
38	67.3	81.1	114,700
40	65.7	80.1	102,800
90 Ft. BOOM			
19	82.5	97.1	351,700 *
20	81.8	96.9	332,900 *
22	80.5	96.6	300,000 *
24	79.2	96.2	272,100 *
26	77.9	95.7	248,300 *
28	76.6	95.2	216,900
30	75.3	94.6	189,000
32	74.0	94.0	166,200
34	72.6	93.4	147,200
36	71.3	92.7	131,100
38	69.9	91.9	117,300
40	68.6	91.1	105,400
42	67.2	90.2	94,900
44	65.8	89.3	85,700
100 Ft. BOOM			
20	82.7	107.0	307,800 *
22	81.5	106.7	299,300 *
24	80.3	106.4	273,300 *
26	79.2	105.9	249,500 *
28	78.0	105.5	219,500
30	76.8	105.0	191,600
32	75.6	104.5	168,700
34	74.4	103.9	149,600
36	73.2	103.3	133,500
38	72.0	102.6	119,700
40	70.8	101.9	107,700
42	69.6	101.1	97,200
44	68.3	100.3	88,000
46	67.1	99.4	79,800
48	65.8	98.5	72,400

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	249,900 *
28	79.1	115.7	221,500
30	78.0	115.3	193,400
32	77.0	114.8	170,400
34	75.9	114.3	151,300
36	74.8	113.7	135,100
38	73.7	113.1	121,300
40	72.6	112.5	109,200
42	71.5	111.8	98,700
44	70.4	111.0	89,400
46	69.3	110.3	81,200
48	68.2	109.4	73,800
50	67.0	108.6	67,100
120 Ft. BOOM			
22	82.9	127.0	271,100 *
24	82.0	126.7	264,800 *
26	81.0	126.3	250,600 *
28	80.0	125.9	223,200
30	79.1	125.5	195,100
32	78.1	125.1	172,100
34	77.1	124.6	152,900
36	76.1	124.1	136,700
38	75.1	123.5	122,700
40	74.1	123.0	110,700
42	73.1	122.3	100,100
44	72.1	121.7	90,800
46	71.1	121.0	82,600
48	70.1	120.2	75,200
50	69.1	119.4	68,500
55	66.5	117.3	54,400
130 Ft. BOOM			
24	82.6	136.8	249,200 *
26	81.7	136.5	243,800 *
28	80.8	136.1	224,700
30	79.9	135.7	196,500
32	79.0	135.3	173,400
34	78.1	134.9	154,200
36	77.2	134.4	137,900
38	76.3	133.9	124,000
40	75.4	133.4	111,900

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	92,000
46	72.6	131.5	83,700
48	71.7	130.9	76,200
50	70.7	130.1	69,600
55	68.4	128.2	55,500
60	66.0	126.0	44,200
140 Ft. BOOM			
26	82.3	146.6	236,300 *
28	81.5	146.3	225,900
30	80.6	145.9	197,700
32	79.8	145.5	174,600
34	79.0	145.1	155,300
36	78.1	144.7	139,000
38	77.3	144.2	125,000
40	76.4	143.7	112,900
42	75.6	143.2	102,300
44	74.7	142.6	92,900
46	73.9	142.0	84,600
48	73.0	141.4	77,200
50	72.2	140.7	70,500
55	70.0	138.9	56,400
60	67.8	136.9	45,000
65	65.5	134.7	35,800
150 Ft. BOOM			
26	82.8	156.7	211,000 *
28	82.0	156.4	205,100 *
30	81.3	156.1	198,600
32	80.5	155.7	175,400
34	79.7	155.3	156,100
36	78.9	154.9	139,700
38	78.2	154.5	125,700
40	77.4	154.0	113,500
42	76.6	153.5	102,900
44	75.8	153.0	93,500
46	75.0	152.5	85,200
48	74.2	151.9	77,700
50	73.4	151.3	71,000
55	71.4	149.6	56,800
60	69.4	147.7	45,500
65	67.3	145.6	36,200
70	65.2	143.4	28,400



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

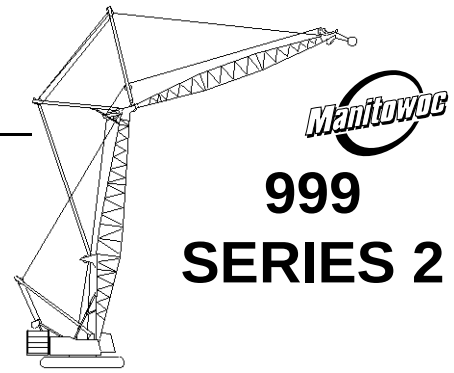
Meets
ANSI B30.5
Requirements

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	176,200
34	80.4	165.5	156,800
36	79.6	165.1	140,400
38	78.9	164.7	126,400
40	78.2	164.3	114,200
42	77.4	163.8	103,500
44	76.7	163.3	94,100
46	76.0	162.8	85,800
48	75.2	162.3	78,300
50	74.5	161.7	71,600
55	72.6	160.2	57,400
60	70.7	158.4	46,000
65	68.8	156.5	36,700
70	66.8	154.4	28,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	157,400
36	80.3	175.3	141,000
38	79.6	174.9	126,900
40	78.9	174.5	114,700
42	78.2	174.1	104,000
44	77.5	173.6	94,600
46	76.8	173.1	86,200
48	76.1	172.6	78,800
50	75.4	172.1	72,000
55	73.7	170.6	57,800
60	71.9	169.0	46,400
65	70.1	167.2	37,100
70	68.3	165.3	29,300
75	66.4	163.1	22,700

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	158,000
36	80.8	185.5	141,500
38	80.2	185.1	127,400
40	79.5	184.7	115,200
42	78.9	184.3	104,500
44	78.2	183.9	95,000
46	77.6	183.4	86,600
48	76.9	183.0	79,100
50	76.2	182.5	72,400
55	74.6	181.1	58,100
60	72.9	179.6	46,700
65	71.2	177.9	37,400
70	69.5	176.0	29,600
75	67.8	174.0	23,000
80	66.1	171.8	17,300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	368,500 *
19	81.5	87.0	347,800 *
20	80.8	86.8	329,000 *
22	79.3	86.4	296,100 *
24	77.9	85.9	268,200 *
26	76.4	85.4	243,600
28	74.9	84.8	209,200
30	73.4	84.2	181,700
32	71.9	83.5	159,200
34	70.4	82.7	140,400
36	68.8	81.9	124,500
38	67.3	81.1	110,900
40	65.7	80.1	99,200
90 Ft. BOOM			
19	82.5	97.1	348,700 *
20	81.8	96.9	330,000 *
22	80.5	96.6	297,100 *
24	79.2	96.2	269,300 *
26	77.9	95.7	245,500 *
28	76.6	95.2	212,600
30	75.3	94.6	184,900
32	74.0	94.0	162,300
34	72.6	93.4	143,500
36	71.3	92.7	127,500
38	69.9	91.9	113,800
40	68.6	91.1	102,000
42	67.2	90.2	91,600
44	65.8	89.3	82,500
100 Ft. BOOM			
20	82.7	107.0	303,600 *
22	81.5	106.7	295,300 *
24	80.3	106.4	270,600 *
26	79.2	105.9	246,900 *
28	78.0	105.5	215,400
30	76.8	105.0	187,700
32	75.6	104.5	165,000
34	74.4	103.9	146,100
36	73.2	103.3	130,100
38	72.0	102.6	116,400
40	70.8	101.9	104,500
42	69.6	101.1	94,100
44	68.3	100.3	84,900
46	67.1	99.4	76,800
48	65.8	98.5	69,500

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	247,300 *
28	79.1	115.7	217,500
30	78.0	115.3	189,700
32	77.0	114.8	166,900
34	75.9	114.3	147,900
36	74.8	113.7	131,900
38	73.7	113.1	118,100
40	72.6	112.5	106,200
42	71.5	111.8	95,700
44	70.4	111.0	86,500
46	69.3	110.3	78,300
48	68.2	109.4	71,000
50	67.0	108.6	64,400
120 Ft. BOOM			
22	82.9	127.0	267,600 *
24	82.0	126.7	261,200 *
26	81.0	126.3	248,100 *
28	80.0	125.9	219,400
30	79.1	125.5	191,500
32	78.1	125.1	168,600
34	77.1	124.6	149,600
36	76.1	124.1	133,500
38	75.1	123.5	119,700
40	74.1	123.0	107,800
42	73.1	122.3	97,300
44	72.1	121.7	88,100
46	71.1	121.0	79,900
48	70.1	120.2	72,500
50	69.1	119.4	65,900
55	66.5	117.3	52,000
130 Ft. BOOM			
24	82.6	136.8	246,000 *
26	81.7	136.5	240,500 *
28	80.8	136.1	221,000
30	79.9	135.7	193,000
32	79.0	135.3	170,100
34	78.1	134.9	151,000
36	77.2	134.4	134,900
38	76.3	133.9	121,000
40	75.4	133.4	109,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	98,600
44	73.5	132.2	89,300
46	72.6	131.5	81,100
48	71.7	130.9	73,700
50	70.7	130.1	67,100
55	68.4	128.2	53,100
60	66.0	126.0	41,900
140 Ft. BOOM			
26	82.3	146.6	233,300 *
28	81.5	146.3	222,400
30	80.6	145.9	194,300
32	79.8	145.5	171,400
34	79.0	145.1	152,200
36	78.1	144.7	136,100
38	77.3	144.2	122,200
40	76.4	143.7	110,200
42	75.6	143.2	99,700
44	74.7	142.6	90,400
46	73.9	142.0	82,100
48	73.0	141.4	74,700
50	72.2	140.7	68,100
55	70.0	138.9	54,100
60	67.8	136.9	42,900
65	65.5	134.7	33,700
150 Ft. BOOM			
26	82.8	156.7	208,900 *
28	82.0	156.4	203,000 *
30	81.3	156.1	195,300
32	80.5	155.7	172,300
34	79.7	155.3	153,100
36	78.9	154.9	136,900
38	78.2	154.5	123,000
40	77.4	154.0	110,900
42	76.6	153.5	100,300
44	75.8	153.0	91,000
46	75.0	152.5	82,800
48	74.2	151.9	75,300
50	73.4	151.3	68,700
55	71.4	149.6	54,600
60	69.4	147.7	43,400
65	67.3	145.6	34,100
70	65.2	143.4	26,500



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SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

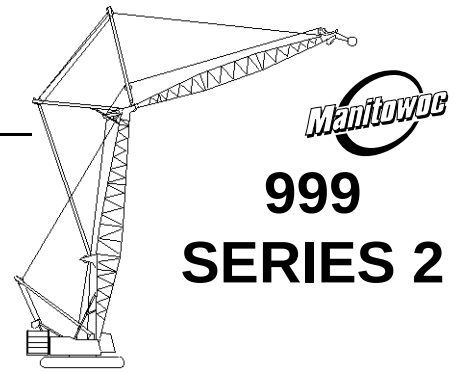
Meets
ANSI B30.5
Requirements

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	173,100
34	80.4	165.5	153,900
36	79.6	165.1	137,600
38	78.9	164.7	123,700
40	78.2	164.3	111,600
42	77.4	163.8	101,000
44	76.7	163.3	91,700
46	76.0	162.8	83,400
48	75.2	162.3	76,000
50	74.5	161.7	69,300
55	72.6	160.2	55,200
60	70.7	158.4	43,900
65	68.8	156.5	34,700
70	66.8	154.4	27,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	154,600
36	80.3	175.3	138,300
38	79.6	174.9	124,300
40	78.9	174.5	112,200
42	78.2	174.1	101,600
44	77.5	173.6	92,300
46	76.8	173.1	84,000
48	76.1	172.6	76,500
50	75.4	172.1	69,800
55	73.7	170.6	55,700
60	71.9	169.0	44,400
65	70.1	167.2	35,100
70	68.3	165.3	27,400
75	66.4	163.1	20,900

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	155,200
36	80.8	185.5	138,900
38	80.2	185.1	124,900
40	79.5	184.7	112,700
42	78.9	184.3	102,100
44	78.2	183.9	92,700
46	77.6	183.4	84,400
48	76.9	183.0	77,000
50	76.2	182.5	70,300
55	74.6	181.1	56,100
60	72.9	179.6	44,800
65	71.2	177.9	35,500



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

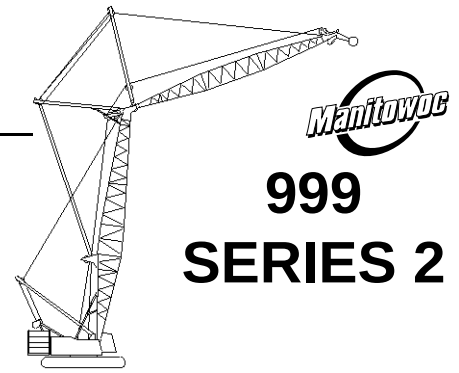
Meets
ANSI B30.5
Requirements

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	343,500 *
20	80.8	86.8	324,700 *
22	79.3	86.4	291,900 *
24	77.9	85.9	264,100 *
26	76.4	85.4	237,200
28	74.9	84.8	203,100
30	73.4	84.2	175,900
32	71.9	83.5	153,600
34	70.4	82.7	135,000
36	68.8	81.9	119,300
38	67.3	81.1	105,800
40	65.7	80.1	94,100
90 Ft. BOOM			
19	82.5	97.1	344,600 *
20	81.8	96.9	325,800 *
22	80.5	96.6	293,100 *
24	79.2	96.2	265,400 *
26	77.9	95.7	241,000
28	76.6	95.2	206,800
30	75.3	94.6	179,400
32	74.0	94.0	157,000
34	72.6	93.4	138,300
36	71.3	92.7	122,500
38	69.9	91.9	109,000
40	68.6	91.1	97,300
42	67.2	90.2	87,000
44	65.8	89.3	78,000
100 Ft. BOOM			
20	82.7	107.0	298,500 *
22	81.5	106.7	290,200 *
24	80.3	106.4	266,800 *
26	79.2	105.9	243,100 *
28	78.0	105.5	209,900
30	76.8	105.0	182,400
32	75.6	104.5	159,900
34	74.4	103.9	141,200
36	73.2	103.3	125,400
38	72.0	102.6	111,800
40	70.8	101.9	100,000
42	69.6	101.1	89,700
44	68.3	100.3	80,600
46	67.1	99.4	72,500
48	65.8	98.5	65,300

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	243,700 *
28	79.1	115.7	212,200
30	78.0	115.3	184,600
32	77.0	114.8	162,000
34	75.9	114.3	143,200
36	74.8	113.7	127,300
38	73.7	113.1	113,700
40	72.6	112.5	101,900
42	71.5	111.8	91,500
44	70.4	111.0	82,400
46	69.3	110.3	74,300
48	68.2	109.4	67,000
50	67.0	108.6	60,500
120 Ft. BOOM			
22	82.9	127.0	263,300 *
24	82.0	126.7	256,900 *
26	81.0	126.3	244,500 *
28	80.0	125.9	214,200
30	79.1	125.5	186,600
32	78.1	125.1	163,900
34	77.1	124.6	145,100
36	76.1	124.1	129,100
38	75.1	123.5	115,500
40	74.1	123.0	103,600
42	73.1	122.3	93,200
44	72.1	121.7	84,100
46	71.1	121.0	76,000
48	70.1	120.2	68,700
50	69.1	119.4	62,100
55	66.5	117.3	48,300
130 Ft. BOOM			
24	82.6	136.8	242,100 *
26	81.7	136.5	236,500 *
28	80.8	136.1	216,000
30	79.9	135.7	188,200
32	79.0	135.3	165,500
34	78.1	134.9	146,600
36	77.2	134.4	130,600
38	76.3	133.9	116,900
40	75.4	133.4	105,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	94,600
44	73.5	132.2	85,500
46	72.6	131.5	77,300
48	71.7	130.9	70,000
50	70.7	130.1	63,400
55	68.4	128.2	49,600
60	66.0	126.0	38,500
140 Ft. BOOM			
26	82.3	146.6	229,500 *
28	81.5	146.3	217,500
30	80.6	145.9	189,700
32	79.8	145.5	166,900
34	79.0	145.1	148,000
36	78.1	144.7	131,900
38	77.3	144.2	118,200
40	76.4	143.7	106,300
42	75.6	143.2	95,800
44	74.7	142.6	86,700
46	73.9	142.0	78,500
48	73.0	141.4	71,200
50	72.2	140.7	64,600
55	70.0	138.9	50,700
60	67.8	136.9	39,600
65	65.5	134.7	30,500
150 Ft. BOOM			
26	82.8	156.7	206,200 *
28	82.0	156.4	200,200 *
30	81.3	156.1	190,800
32	80.5	155.7	168,000
34	79.7	155.3	148,900
36	78.9	154.9	132,800
38	78.2	154.5	119,100
40	77.4	154.0	107,100
42	76.6	153.5	96,600
44	75.8	153.0	87,400
46	75.0	152.5	79,200
48	74.2	151.9	71,900
50	73.4	151.3	65,300
55	71.4	149.6	51,300
60	69.4	147.7	40,200
65	67.3	145.6	31,000
70	65.2	143.4	23,400



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

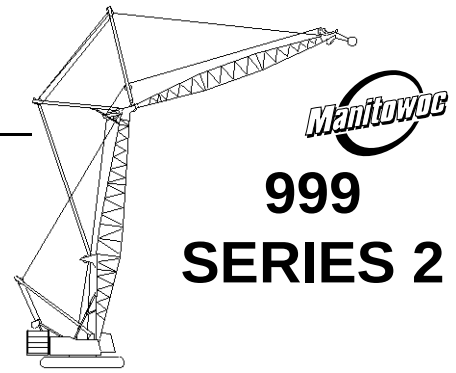
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SERIES 2

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.5	192,600 *
30	81.8	166.2	187,000 *
32	81.1	165.9	168,900
34	80.4	165.5	149,800
36	79.6	165.1	133,700
38	78.9	164.7	119,900
40	78.2	164.3	107,900
42	77.4	163.8	97,400
44	76.7	163.3	88,200
46	76.0	162.8	80,000
48	75.2	162.3	72,600
50	74.5	161.7	66,000
55	72.6	160.2	52,000
60	70.7	158.4	40,800
65	68.8	156.5	31,700
70	66.8	154.4	24,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	150,600
36	80.3	175.3	134,400
38	79.6	174.9	120,600
40	78.9	174.5	108,600
42	78.2	174.1	98,100
44	77.5	173.6	88,800
46	76.8	173.1	80,600
48	76.1	172.6	73,200
50	75.4	172.1	66,600
55	73.7	170.6	52,600
60	71.9	169.0	41,400
65	70.1	167.2	32,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	118,000 *
32	82.1	186.1	118,000 *
34	81.4	185.8	118,000 *
36	80.8	185.5	118,000 *
38	80.2	185.1	118,000 *
40	79.5	184.7	109,200
42	78.9	184.3	98,600
44	78.2	183.9	89,300
46	77.6	183.4	81,100
48	76.9	183.0	73,700
50	76.2	182.5	67,100
55	74.6	181.1	53,000
60	72.9	179.6	41,800
65	71.2	177.9	32,600



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

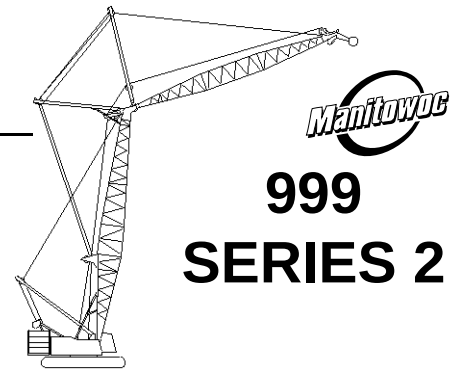
Meets
ANSI B30.5
Requirements

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	339,800 *
20	80.8	86.8	321,100 *
22	79.3	86.4	288,300 *
24	77.9	85.9	260,500 *
26	76.4	85.4	231,600
28	74.9	84.8	197,800
30	73.4	84.2	170,800
32	71.9	83.5	148,800
34	70.4	82.7	130,400
36	68.8	81.9	114,800
38	67.3	81.1	101,400
40	65.7	80.1	89,900
90 Ft. BOOM			
19	82.5	97.1	341,000 *
20	81.8	96.9	322,300 *
22	80.5	96.6	289,600 *
24	79.2	96.2	262,000 *
26	77.9	95.7	235,700
28	76.6	95.2	201,800
30	75.3	94.6	174,700
32	74.0	94.0	152,500
34	72.6	93.4	134,000
36	71.3	92.7	118,300
38	69.9	91.9	104,900
40	68.6	91.1	93,300
42	67.2	90.2	83,100
44	65.8	89.3	74,100
100 Ft. BOOM			
20	82.7	107.0	295,200 *
22	81.5	106.7	286,700 *
24	80.3	106.4	263,600 *
26	79.2	105.9	239,200
28	78.0	105.5	205,100
30	76.8	105.0	177,900
32	75.6	104.5	155,600
34	74.4	103.9	137,000
36	73.2	103.3	121,300
38	72.0	102.6	107,900
40	70.8	101.9	96,200
42	69.6	101.1	86,000
44	68.3	100.3	77,000
46	67.1	99.4	69,000
48	65.8	98.5	61,800

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	240,600 *
28	79.1	115.7	207,600
30	78.0	115.3	180,300
32	77.0	114.8	157,900
34	75.9	114.3	139,200
36	74.8	113.7	123,500
38	73.7	113.1	109,900
40	72.6	112.5	98,200
42	71.5	111.8	88,000
44	70.4	111.0	78,900
46	69.3	110.3	70,900
48	68.2	109.4	63,700
50	67.0	108.6	57,200
120 Ft. BOOM			
22	82.9	127.0	260,600 *
24	82.0	126.7	254,000 *
26	81.0	126.3	241,600 *
28	80.0	125.9	209,800
30	79.1	125.5	182,400
32	78.1	125.1	159,900
34	77.1	124.6	141,200
36	76.1	124.1	125,400
38	75.1	123.5	111,900
40	74.1	123.0	100,100
42	73.1	122.3	89,800
44	72.1	121.7	80,800
46	71.1	121.0	72,700
48	70.1	120.2	65,500
50	69.1	119.4	59,000
55	66.5	117.3	45,300
130 Ft. BOOM			
24	82.6	136.8	239,600 *
26	81.7	136.5	233,900 *
28	80.8	136.1	211,700
30	79.9	135.7	184,200
32	79.0	135.3	161,600
34	78.1	134.9	142,900
36	77.2	134.4	127,000
38	76.3	133.9	113,400
40	75.4	133.4	101,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
42	74.5	132.8	91,300
44	73.5	132.2	82,200
46	72.6	131.5	74,200
48	71.7	130.9	66,900
50	70.7	130.1	60,400
55	68.4	128.2	46,700
60	66.0	126.0	35,700
140 Ft. BOOM			
26	82.3	146.6	227,200 *
28	81.5	146.3	213,300
30	80.6	145.9	185,700
32	79.8	145.5	163,100
34	79.0	145.1	144,300
36	78.1	144.7	128,400
38	77.3	144.2	114,800
40	76.4	143.7	103,000
42	75.6	143.2	92,700
44	74.7	142.6	83,500
46	73.9	142.0	75,400
48	73.0	141.4	68,200
50	72.2	140.7	61,700
55	70.0	138.9	47,900
60	67.8	136.9	36,900
65	65.5	134.7	27,800
150 Ft. BOOM			
26	82.8	156.7	204,500 *
28	82.0	156.4	198,600 *
30	81.3	156.1	186,900
32	80.5	155.7	164,300
34	79.7	155.3	145,400
36	78.9	154.9	129,400
38	78.2	154.5	115,800
40	77.4	154.0	103,900
42	76.6	153.5	93,500
44	75.8	153.0	84,400
46	75.0	152.5	76,200
48	74.2	151.9	69,000
50	73.4	151.3	62,400
55	71.4	149.6	48,600
60	69.4	147.7	37,500
65	67.3	145.6	28,500
70	65.2	143.4	20,900



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

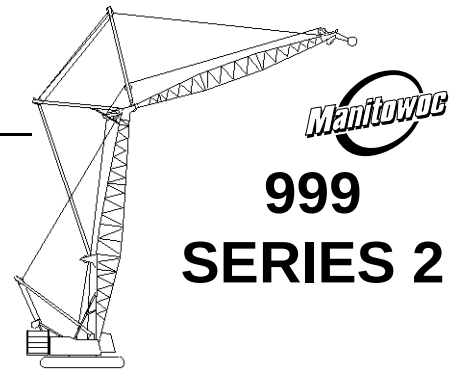
999
SERIES 2

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.5	190,900 *
30	81.8	166.2	185,300 *
32	81.1	165.9	165,300
34	80.4	165.5	146,400
36	79.6	165.1	130,400
38	78.9	164.7	116,700
40	78.2	164.3	104,800
42	77.4	163.8	94,400
44	76.7	163.3	85,200
46	76.0	162.8	77,100
48	75.2	162.3	69,800
50	74.5	161.7	63,200
55	72.6	160.2	49,400
60	70.7	158.4	38,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
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	147,200
36	80.3	175.3	131,200
38	79.6	174.9	117,500
40	78.9	174.5	105,500
42	78.2	174.1	95,100
44	77.5	173.6	85,900
46	76.8	173.1	77,800
48	76.1	172.6	70,400
50	75.4	172.1	63,900
55	73.7	170.6	50,000
60	71.9	169.0	38,900
65	70.1	167.2	29,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.4	118,000 *
32	82.1	186.1	118,000 *
34	81.4	185.8	118,000 *
36	80.8	185.5	118,000 *
38	80.2	185.1	118,000 *
40	79.5	184.7	106,200
42	78.9	184.3	95,700
44	78.2	183.9	86,500
46	77.6	183.4	78,300
48	76.9	183.0	71,000
50	76.2	182.5	64,400



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

**Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating**

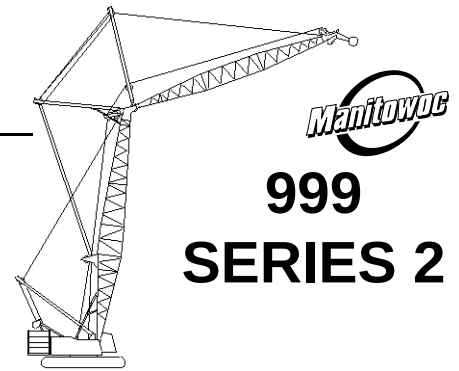
**Meets
ANSI B30.5
Requirements**

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	335,200 *
20	80.8	86.8	316,500 *
22	79.3	86.4	283,800 *
24	77.9	85.9	256,100 *
26	76.4	85.4	224,700
28	74.9	84.8	191,300
30	73.4	84.2	164,600
32	71.9	83.5	142,800
34	70.4	82.7	124,600
36	68.8	81.9	109,200
38	67.3	81.1	96,000
40	65.7	80.1	84,500
90 Ft. BOOM			
19	82.5	97.1	336,600 *
20	81.8	96.9	317,900 *
22	80.5	96.6	285,300 *
24	79.2	96.2	257,700 *
26	77.9	95.7	229,200
28	76.6	95.2	195,600
30	75.3	94.6	168,800
32	74.0	94.0	146,800
34	72.6	93.4	128,500
36	71.3	92.7	113,000
38	69.9	91.9	99,700
40	68.6	91.1	88,200
42	67.2	90.2	78,200
44	65.8	89.3	69,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	289,800 *
22	81.5	106.7	281,200 *
24	80.3	106.4	259,500 *
26	79.2	105.9	232,900
28	78.0	105.5	199,200
30	76.8	105.0	172,200
32	75.6	104.5	150,200
34	74.4	103.9	131,800
36	73.2	103.3	116,300
38	72.0	102.6	103,000
40	70.8	101.9	91,400
42	69.6	101.1	81,300
44	68.3	100.3	72,400
46	67.1	99.4	64,500
48	65.8	98.5	57,400
110 Ft. BOOM			
22	82.3	116.9	261,900 *
24	81.2	116.5	254,500 *
26	80.2	116.2	235,700
28	79.1	115.7	201,900
30	78.0	115.3	174,800
32	77.0	114.8	152,700
34	75.9	114.3	134,200
36	74.8	113.7	118,600
38	73.7	113.1	105,200
40	72.6	112.5	93,600
42	71.5	111.8	83,500
44	70.4	111.0	74,500
46	69.3	110.3	66,600
48	68.2	109.4	59,500
50	67.0	108.6	53,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	82.9	127.0	256,000 *
24	82.0	126.7	249,400 *
26	81.0	126.3	237,800 *
28	80.0	125.9	204,300
30	79.1	125.5	177,100
32	78.1	125.1	154,900
34	77.1	124.6	136,400
36	76.1	124.1	120,800
38	75.1	123.5	107,300
40	74.1	123.0	95,700
42	73.1	122.3	85,500
44	72.1	121.7	76,500
46	71.1	121.0	68,600
48	70.1	120.2	61,400
50	69.1	119.4	55,000
55	66.5	117.3	41,400
130 Ft. BOOM			
24	82.6	136.8	235,400 *
26	81.7	136.5	229,700 *
28	80.8	136.1	206,300
30	79.9	135.7	179,100
32	79.0	135.3	156,800
34	78.1	134.9	138,200
36	77.2	134.4	122,500
38	76.3	133.9	109,000
40	75.4	133.4	97,400
42	74.5	132.8	87,200
44	73.5	132.2	78,200
46	72.6	131.5	70,200
48	71.7	130.9	63,000
50	70.7	130.1	56,600
55	68.4	128.2	43,000
60	66.0	126.0	32,100



Liftcrane Boom Capacities With Luffing Jib Attached

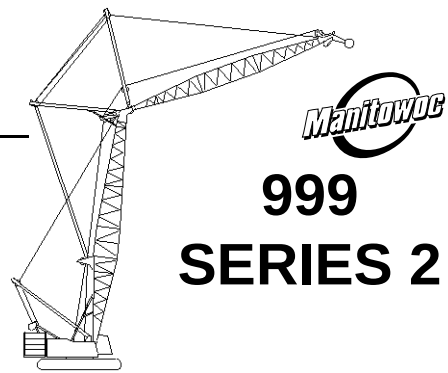
Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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
140 Ft. BOOM			
26	82.3	146.6	223,200 *
28	81.5	146.3	208,000
30	80.6	145.9	180,700
32	79.8	145.5	158,400
34	79.0	145.1	139,800
36	78.1	144.7	124,000
38	77.3	144.2	110,500
40	76.4	143.7	98,800
42	75.6	143.2	88,600
44	74.7	142.6	79,600
46	73.9	142.0	71,600
48	73.0	141.4	64,400
50	72.2	140.7	57,900
55	70.0	138.9	44,300
60	67.8	136.9	33,400
150 Ft. BOOM			
26	82.8	156.7	201,600 *
28	82.0	156.4	195,700 *
30	81.3	156.1	182,100
32	80.5	155.7	159,600
34	79.7	155.3	141,000
36	78.9	154.9	125,200
38	78.2	154.5	111,600
40	77.4	154.0	99,900
42	76.6	153.5	89,600
44	75.8	153.0	80,500
46	75.0	152.5	72,500
48	74.2	151.9	65,300
50	73.4	151.3	58,800
55	71.4	149.6	45,100

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	160,800
34	80.4	165.5	142,000
36	79.6	165.1	126,200
38	78.9	164.7	112,600
40	78.2	164.3	100,800
42	77.4	163.8	90,600
44	76.7	163.3	81,500
46	76.0	162.8	73,400
48	75.2	162.3	66,200
50	74.5	161.7	59,700
55	72.6	160.2	45,900
60	70.7	158.4	35,000
170 Ft. BOOM			
28	83.0	176.6	171,600 *
30	82.3	176.3	167,100 *
32	81.6	176.0	161,700
34	80.9	175.7	143,000
36	80.3	175.3	127,100
38	79.6	174.9	113,500
40	78.9	174.5	101,700
42	78.2	174.1	91,400
44	77.5	173.6	82,300
46	76.8	173.1	74,200
48	76.1	172.6	66,900
50	75.4	172.1	60,400



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

**Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating**

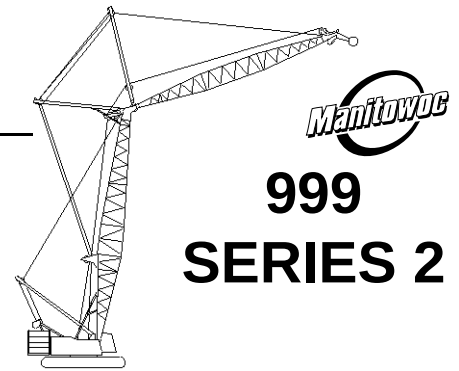
**Meets
ANSI B30.5
Requirements**

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	332,300 *
20	80.8	86.8	313,600 *
22	79.3	86.4	281,000 *
24	77.9	85.9	253,300 *
26	76.4	85.4	220,100
28	74.9	84.8	187,000
30	73.4	84.2	160,500
32	71.9	83.5	138,900
34	70.4	82.7	120,800
36	68.8	81.9	105,500
38	67.3	81.1	92,500
40	65.7	80.1	81,100
90 Ft. BOOM			
19	82.5	97.1	333,800 *
20	81.8	96.9	315,200 *
22	80.5	96.6	282,600 *
24	79.2	96.2	255,100 *
26	77.9	95.7	224,900
28	76.6	95.2	191,600
30	75.3	94.6	164,900
32	74.0	94.0	143,100
34	72.6	93.4	125,000
36	71.3	92.7	109,600
38	69.9	91.9	96,400
40	68.6	91.1	85,000
42	67.2	90.2	75,000
44	65.8	89.3	66,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	285,500 *
22	81.5	106.7	276,700 *
24	80.3	106.4	256,900 *
26	79.2	105.9	228,800
28	78.0	105.5	195,300
30	76.8	105.0	168,600
32	75.6	104.5	146,700
34	74.4	103.9	128,500
36	73.2	103.3	113,100
38	72.0	102.6	99,800
40	70.8	101.9	88,400
42	69.6	101.1	78,400
44	68.3	100.3	69,500
46	67.1	99.4	61,700
48	65.8	98.5	54,700
110 Ft. BOOM			
22	82.3	116.9	257,900 *
24	81.2	116.5	250,400 *
26	80.2	116.2	231,800
28	79.1	115.7	198,200
30	78.0	115.3	171,300
32	77.0	114.8	149,400
34	75.9	114.3	131,000
36	74.8	113.7	115,500
38	73.7	113.1	102,300
40	72.6	112.5	90,800
42	71.5	111.8	80,700
44	70.4	111.0	71,800
46	69.3	110.3	63,900
48	68.2	109.4	56,900
50	67.0	108.6	50,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	82.9	127.0	252,400 *
24	82.0	126.7	245,700 *
26	81.0	126.3	234,400
28	80.0	125.9	200,700
30	79.1	125.5	173,800
32	78.1	125.1	151,700
34	77.1	124.6	133,400
36	76.1	124.1	117,800
38	75.1	123.5	104,500
40	74.1	123.0	92,900
42	73.1	122.3	82,900
44	72.1	121.7	73,900
46	71.1	121.0	66,000
48	70.1	120.2	58,900
50	69.1	119.4	52,600
55	66.5	117.3	39,100
130 Ft. BOOM			
24	82.6	136.8	232,000 *
26	81.7	136.5	226,300 *
28	80.8	136.1	202,800
30	79.9	135.7	175,800
32	79.0	135.3	153,700
34	78.1	134.9	135,300
36	77.2	134.4	119,700
38	76.3	133.9	106,300
40	75.4	133.4	94,700
42	74.5	132.8	84,600
44	73.5	132.2	75,700
46	72.6	131.5	67,700
48	71.7	130.9	60,600
50	70.7	130.1	54,200
55	68.4	128.2	40,700
60	66.0	126.0	29,900



Liftcrane Boom Capacities With Luffing Jib Attached

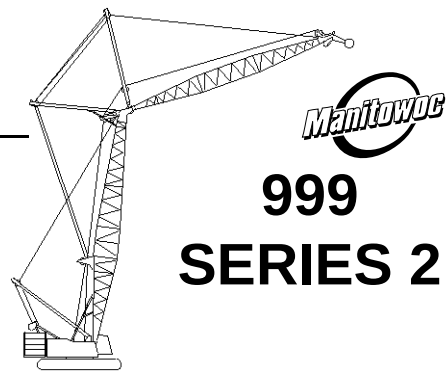
Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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
140 Ft. BOOM			
26	82.3	146.6	220,000 *
28	81.5	146.3	204,700
30	80.6	145.9	177,600
32	79.8	145.5	155,400
34	79.0	145.1	136,900
36	78.1	144.7	121,300
38	77.3	144.2	107,900
40	76.4	143.7	96,300
42	75.6	143.2	86,100
44	74.7	142.6	77,200
46	73.9	142.0	69,200
48	73.0	141.4	62,100
50	72.2	140.7	55,700
55	70.0	138.9	42,100
150 Ft. BOOM			
26	82.8	156.7	199,300 *
28	82.0	156.4	193,400 *
30	81.3	156.1	179,000
32	80.5	155.7	156,700
34	79.7	155.3	138,200
36	78.9	154.9	122,500
38	78.2	154.5	109,000
40	77.4	154.0	97,400
42	76.6	153.5	87,200
44	75.8	153.0	78,200
46	75.0	152.5	70,200
48	74.2	151.9	63,000
50	73.4	151.3	56,600
55	71.4	149.6	43,000

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	157,900
34	80.4	165.5	139,300
36	79.6	165.1	123,600
38	78.9	164.7	110,100
40	78.2	164.3	98,400
42	77.4	163.8	88,200
44	76.7	163.3	79,200
46	76.0	162.8	71,200
48	75.2	162.3	64,000
170 Ft. BOOM			
28	83.0	176.6	169,300 *
30	82.3	176.3	164,800 *
32	81.6	176.0	159,000
34	80.9	175.7	140,300
36	80.3	175.3	124,600
38	79.6	174.9	111,000
40	78.9	174.5	99,300
42	78.2	174.1	89,100
44	77.5	173.6	80,000
46	76.8	173.1	72,000
48	76.1	172.6	64,800
50	75.4	172.1	58,400



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

**Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	327,500 *
20	80.8	86.8	308,800 *
22	79.3	86.4	276,200 *
24	77.9	85.9	248,700 *
26	76.4	85.4	212,900
28	74.9	84.8	180,200
30	73.4	84.2	154,000
32	71.9	83.5	132,600
34	70.4	82.7	114,700
36	68.8	81.9	99,600
38	67.3	81.1	86,700
40	65.7	80.1	75,500
90 Ft. BOOM			
19	82.5	97.1	329,100 *
20	81.8	96.9	310,600 *
22	80.5	96.6	278,100 *
24	79.2	96.2	250,700 *
26	77.9	95.7	218,000
28	76.6	95.2	185,100
30	75.3	94.6	158,700
32	74.0	94.0	137,200
34	72.6	93.4	119,200
36	71.3	92.7	104,000
38	69.9	91.9	91,000
40	68.6	91.1	79,700
42	67.2	90.2	69,900
44	65.8	89.3	61,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	279,700 *
22	81.5	106.7	270,800 *
24	80.3	106.4	252,600 *
26	79.2	105.9	222,200
28	78.0	105.5	189,100
30	76.8	105.0	162,700
32	75.6	104.5	141,000
34	74.4	103.9	123,000
36	73.2	103.3	107,800
38	72.0	102.6	94,700
40	70.8	101.9	83,400
42	69.6	101.1	73,500
44	68.3	100.3	64,700
46	67.1	99.4	57,000
48	65.8	98.5	50,000
110 Ft. BOOM			
22	82.3	116.9	252,600 *
24	81.2	116.5	245,000 *
26	80.2	116.2	225,400
28	79.1	115.7	192,200
30	78.0	115.3	165,600
32	77.0	114.8	143,900
34	75.9	114.3	125,800
36	74.8	113.7	110,500
38	73.7	113.1	97,300
40	72.6	112.5	86,000
42	71.5	111.8	76,000
44	70.4	111.0	67,200
46	69.3	110.3	59,400
48	68.2	109.4	52,400
50	67.0	108.6	46,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	82.9	127.0	247,500 *
24	82.0	126.7	240,800 *
26	81.0	126.3	228,200
28	80.0	125.9	194,900
30	79.1	125.5	168,300
32	78.1	125.1	146,500
34	77.1	124.6	128,300
36	76.1	124.1	112,900
38	75.1	123.5	99,700
40	74.1	123.0	88,300
42	73.1	122.3	78,300
44	72.1	121.7	69,500
46	71.1	121.0	61,700
48	70.1	120.2	54,700
50	69.1	119.4	48,400
55	66.5	117.3	35,100
130 Ft. BOOM			
24	82.6	136.8	227,500 *
26	81.7	136.5	221,800 *
28	80.8	136.1	197,200
30	79.9	135.7	170,500
32	79.0	135.3	148,600
34	78.1	134.9	130,400
36	77.2	134.4	114,900
38	76.3	133.9	101,700
40	75.4	133.4	90,300
42	74.5	132.8	80,200
44	73.5	132.2	71,400
46	72.6	131.5	63,500
48	71.7	130.9	56,500
50	70.7	130.1	50,200
55	68.4	128.2	36,800
60	66.0	126.0	26,200



Liftcrane Boom Capacities With Luffing Jib Attached

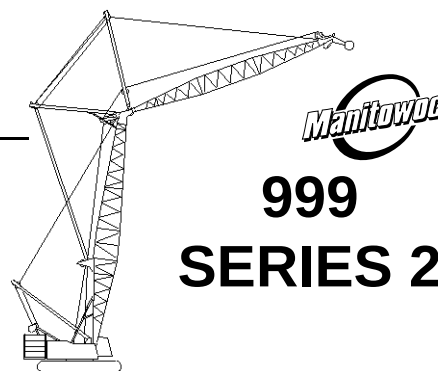
Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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
140 Ft. BOOM			
26	82.3	146.6	215,700 *
28	81.5	146.3	199,200
30	80.6	145.9	172,400
32	79.8	145.5	150,400
34	79.0	145.1	132,200
36	78.1	144.7	116,700
38	77.3	144.2	103,400
40	76.4	143.7	91,900
42	75.6	143.2	81,900
44	74.7	142.6	73,000
46	73.9	142.0	65,100
48	73.0	141.4	58,100
50	72.2	140.7	51,800
55	70.0	138.9	38,400
150 Ft. BOOM			
26	82.8	156.7	196,200 *
28	82.0	156.4	190,300 *
30	81.3	156.1	173,900
32	80.5	155.7	151,900
34	79.7	155.3	133,500
36	78.9	154.9	118,000
38	78.2	154.5	104,700
40	77.4	154.0	93,200
42	76.6	153.5	83,100
44	75.8	153.0	74,200
46	75.0	152.5	66,300

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	175,300
32	81.1	165.9	153,200
34	80.4	165.5	134,800
36	79.6	165.1	119,200
38	78.9	164.7	105,900
40	78.2	164.3	94,300
42	77.4	163.8	84,200
44	76.7	163.3	75,300
46	76.0	162.8	67,300
48	75.2	162.3	60,200
170 Ft. BOOM			
28	83.0	176.6	166,300 *
30	82.3	176.3	161,700 *
32	81.6	176.0	154,300
34	80.9	175.7	135,900
36	80.3	175.3	120,300
38	79.6	174.9	106,900
40	78.9	174.5	95,300
42	78.2	174.1	85,200
44	77.5	173.6	76,200
46	76.8	173.1	68,300
48	76.1	172.6	61,100
50	75.4	172.1	54,700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

184,600 Lb. Crane Counterweight

44,000 Lb. Carbody Counterweight

360 Degree Rating

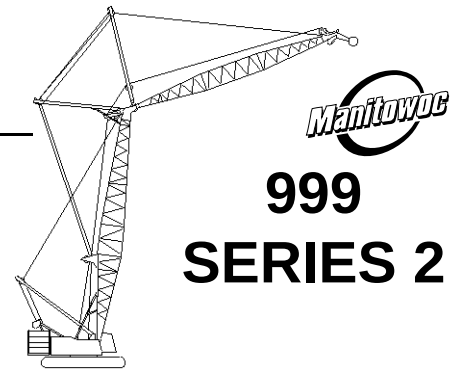
Meets
ANSI B30.5
Requirements

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	323,000 *
20	80.8	86.8	304,400 *
22	79.3	86.4	271,900 *
24	77.9	85.9	244,400 *
26	76.4	85.4	206,000
28	74.9	84.8	173,700
30	73.4	84.2	147,800
32	71.9	83.5	126,700
34	70.4	82.7	109,000
36	68.8	81.9	94,100
38	67.3	81.1	81,400
40	65.7	80.1	70,300
90 Ft. BOOM			
19	82.5	97.1	324,800 *
20	81.8	96.9	306,300 *
22	80.5	96.6	273,900 *
24	79.2	96.2	246,600 *
26	77.9	95.7	211,500
28	76.6	95.2	178,900
30	75.3	94.6	152,900
32	74.0	94.0	131,600
34	72.6	93.4	113,800
36	71.3	92.7	98,800
38	69.9	91.9	86,000
40	68.6	91.1	74,800
42	67.2	90.2	65,100
44	65.8	89.3	56,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	275,100 *
22	81.5	106.7	266,100 *
24	80.3	106.4	248,700 *
26	79.2	105.9	215,900
28	78.0	105.5	183,300
30	76.8	105.0	157,100
32	75.6	104.5	135,700
34	74.4	103.9	117,900
36	73.2	103.3	102,800
38	72.0	102.6	89,900
40	70.8	101.9	78,700
42	69.6	101.1	68,900
44	68.3	100.3	60,300
46	67.1	99.4	52,600
48	65.8	98.5	45,800
110 Ft. BOOM			
22	82.3	116.9	248,300 *
24	81.2	116.5	240,600 *
26	80.2	116.2	219,400
28	79.1	115.7	186,600
30	78.0	115.3	160,300
32	77.0	114.8	138,800
34	75.9	114.3	120,900
36	74.8	113.7	105,800
38	73.7	113.1	92,800
40	72.6	112.5	81,500
42	71.5	111.8	71,700
44	70.4	111.0	63,000
46	69.3	110.3	55,300
48	68.2	109.4	48,400
50	67.0	108.6	42,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
22	82.9	127.0	243,700 *
24	82.0	126.7	236,800 *
26	81.0	126.3	222,400
28	80.0	125.9	189,500
30	79.1	125.5	163,100
32	78.1	125.1	141,600
34	77.1	124.6	123,600
36	76.1	124.1	108,400
38	75.1	123.5	95,400
40	74.1	123.0	84,100
42	73.1	122.3	74,200
44	72.1	121.7	65,500
46	71.1	121.0	57,700
48	70.1	120.2	50,800
50	69.1	119.4	44,600
55	66.5	117.3	31,400
130 Ft. BOOM			
24	82.6	136.8	224,000 *
26	81.7	136.5	218,200 *
28	80.8	136.1	191,900
30	79.9	135.7	165,500
32	79.0	135.3	143,800
34	78.1	134.9	125,800
36	77.2	134.4	110,600
38	76.3	133.9	97,500
40	75.4	133.4	86,200
42	74.5	132.8	76,300
44	73.5	132.2	67,500
46	72.6	131.5	59,700
48	71.7	130.9	52,800
50	70.7	130.1	46,500



Liftcrane Boom Capacities With Luffing Jib Attached

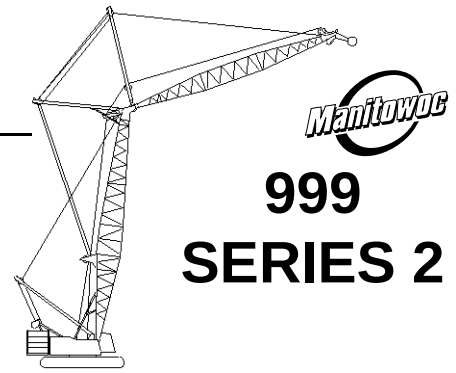
Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

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
140 Ft. BOOM			
26	82.3	146.6	212,400 *
28	81.5	146.3	194,100
30	80.6	145.9	167,500
32	79.8	145.5	145,800
34	79.0	145.1	127,800
36	78.1	144.7	112,400
38	77.3	144.2	99,300
40	76.4	143.7	88,000
42	75.6	143.2	78,000
150 Ft. BOOM			
26	82.8	156.7	193,900 *
28	82.0	156.4	188,000 *
30	81.3	156.1	169,200
32	80.5	155.7	147,400
34	79.7	155.3	129,200
36	78.9	154.9	113,900
38	78.2	154.5	100,700
40	77.4	154.0	89,300
42	76.6	153.5	79,300
44	75.8	153.0	70,500
46	75.0	152.5	62,700

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	170,600
32	81.1	165.9	148,800
34	80.4	165.5	130,600
36	79.6	165.1	115,200
38	78.9	164.7	102,000
40	78.2	164.3	90,600
42	77.4	163.8	80,500
44	76.7	163.3	71,700
46	76.0	162.8	63,900
48	75.2	162.3	56,900
170 Ft. BOOM			
28	83.0	176.6	164,000 *
30	82.3	176.3	159,400 *
32	81.6	176.0	150,000
34	80.9	175.7	131,800
36	80.3	175.3	116,300



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

**Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	317,900 *
20	80.8	86.8	299,400 *
22	79.3	86.4	267,000 *
24	77.9	85.9	239,500
26	76.4	85.4	198,400
28	74.9	84.8	166,500
30	73.4	84.2	140,900
32	71.9	83.5	120,000
34	70.4	82.7	102,600
36	68.8	81.9	87,900
38	67.3	81.1	75,300
40	65.7	80.1	64,400
90 Ft. BOOM			
19	82.5	97.1	319,900 *
20	81.8	96.9	301,500 *
22	80.5	96.6	269,200 *
24	79.2	96.2	241,900 *
26	77.9	95.7	204,200
28	76.6	95.2	172,100
30	75.3	94.6	146,400
32	74.0	94.0	125,300
34	72.6	93.4	107,800
36	71.3	92.7	93,000
38	69.9	91.9	80,300
40	68.6	91.1	69,300
42	67.2	90.2	59,700
44	65.8	89.3	51,200
100 Ft. BOOM			
20	82.7	107.0	269,000 *
22	81.5	106.7	259,800 *
24	80.3	106.4	244,200 *
26	79.2	105.9	209,000
28	78.0	105.5	176,700
30	76.8	105.0	150,900
32	75.6	104.5	129,800
34	74.4	103.9	112,200
36	73.2	103.3	97,300
38	72.0	102.6	84,500
40	70.8	101.9	73,400
42	69.6	101.1	63,800
44	68.3	100.3	55,300
46	67.1	99.4	47,700
48	65.8	98.5	40,900

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	212,800
28	79.1	115.7	180,300
30	78.0	115.3	154,300
32	77.0	114.8	133,100
34	75.9	114.3	115,400
36	74.8	113.7	100,400
38	73.7	113.1	87,600
40	72.6	112.5	76,500
42	71.5	111.8	66,800
44	70.4	111.0	58,200
46	69.3	110.3	50,600
48	68.2	109.4	43,700
50	67.0	108.6	37,600
120 Ft. BOOM			
22	82.9	127.0	238,500 *
24	82.0	126.7	231,600 *
26	81.0	126.3	216,000
28	80.0	125.9	183,400
30	79.1	125.5	157,400
32	78.1	125.1	136,000
34	77.1	124.6	118,300
36	76.1	124.1	103,200
38	75.1	123.5	90,400
40	74.1	123.0	79,200
42	73.1	122.3	69,500
44	72.1	121.7	60,900
46	71.1	121.0	53,200
48	70.1	120.2	46,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.8	219,300 *
26	81.7	136.5	213,400 *
28	80.8	136.1	186,000
30	79.9	135.7	159,900
32	79.0	135.3	138,500
34	78.1	134.9	120,700
36	77.2	134.4	105,600
38	76.3	133.9	92,700
40	75.4	133.4	81,500
42	74.5	132.8	71,700
44	73.5	132.2	63,000
46	72.6	131.5	55,400
48	71.7	130.9	48,500
50	70.7	130.1	42,300
140 Ft. BOOM			
26	82.3	146.6	207,900 *
28	81.5	146.3	188,300
30	80.6	145.9	162,100
32	79.8	145.5	140,600
34	79.0	145.1	122,800
36	78.1	144.7	107,600
38	77.3	144.2	94,700
40	76.4	143.7	83,400
42	75.6	143.2	73,600



999

SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

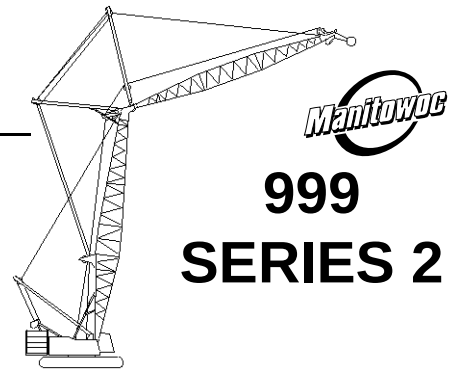
Meets
ANSI B30.5
Requirements

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	313,700 *
20	80.8	86.8	295,300 *
22	79.3	86.4	262,900 *
24	77.9	85.9	232,400
26	76.4	85.4	191,800
28	74.9	84.8	160,300
30	73.4	84.2	135,100
32	71.9	83.5	114,400
34	70.4	82.7	97,300
36	68.8	81.9	82,700
38	67.3	81.1	70,300
40	65.7	80.1	59,500
90 Ft. BOOM			
19	82.5	97.1	315,900 *
20	81.8	96.9	297,500 *
22	80.5	96.6	265,400 *
24	79.2	96.2	238,200 *
26	77.9	95.7	198,000
28	76.6	95.2	166,300
30	75.3	94.6	140,900
32	74.0	94.0	120,100
34	72.6	93.4	102,800
36	71.3	92.7	88,100
38	69.9	91.9	75,600
40	68.6	91.1	64,700
42	67.2	90.2	55,200
44	65.8	89.3	46,900

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	240,700 *
26	79.2	105.9	203,100
28	78.0	105.5	171,200
30	76.8	105.0	145,700
32	75.6	104.5	124,800
34	74.4	103.9	107,400
36	73.2	103.3	92,700
38	72.0	102.6	80,100
40	70.8	101.9	69,200
42	69.6	101.1	59,600
44	68.3	100.3	51,200
46	67.1	99.4	43,700
48	65.8	98.5	37,000
110 Ft. BOOM			
22	82.3	116.9	237,800 *
24	81.2	116.5	229,800 *
26	80.2	116.2	207,100
28	79.1	115.7	175,000
30	78.0	115.3	149,300
32	77.0	114.8	128,300
34	75.9	114.3	110,800
36	74.8	113.7	96,100
38	73.7	113.1	83,400
40	72.6	112.5	72,400
42	71.5	111.8	62,800
44	70.4	111.0	54,300

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	210,500
28	80.0	125.9	178,300
30	79.1	125.5	152,500
32	78.1	125.1	131,500
34	77.1	124.6	113,900
36	76.1	124.1	99,100
38	75.1	123.5	86,300
40	74.1	123.0	75,300
42	73.1	122.3	65,700
44	72.1	121.7	57,200
46	71.1	121.0	49,600
48	70.1	120.2	42,800
130 Ft. BOOM			
24	82.6	136.8	215,200 *
26	81.7	136.5	209,200 *
28	80.8	136.1	181,100
30	79.9	135.7	155,200
32	79.0	135.3	134,100
34	78.1	134.9	116,500
36	77.2	134.4	101,600
38	76.3	133.9	88,800
40	75.4	133.4	77,700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
184,600 Lb. Crane Counterweight
44,000 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	308,500 *
20	80.8	86.8	290,000 *
22	79.3	86.4	257,800 *
24	77.9	85.9	223,900
26	76.4	85.4	183,900
28	74.9	84.8	152,700
30	73.4	84.2	127,900
32	71.9	83.5	107,500
34	70.4	82.7	90,600
36	68.8	81.9	76,200
38	67.3	81.1	64,000
40	65.7	80.1	53,300
90 Ft. BOOM			
19	82.5	97.1	310,800 *
20	81.8	96.9	292,500 *
22	80.5	96.6	260,500 *
24	79.2	96.2	230,800
26	77.9	95.7	190,500
28	76.6	95.2	159,100
30	75.3	94.6	134,000
32	74.0	94.0	113,500
34	72.6	93.4	96,500
36	71.3	92.7	82,000
38	69.9	91.9	69,600
40	68.6	91.1	58,900
42	67.2	90.2	49,600
44	65.8	89.3	41,300
100 Ft. BOOM			
20	82.7	107.0	257,200 *
22	81.5	106.7	247,800 *
24	80.3	106.4	236,000 *
26	79.2	105.9	195,800
28	78.0	105.5	164,300
30	76.8	105.0	139,100
32	75.6	104.5	118,500
34	74.4	103.9	101,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
36	73.2	103.3	86,900
38	72.0	102.6	74,400
40	70.8	101.9	63,600
42	69.6	101.1	54,200
44	68.3	100.3	45,900
46	67.1	99.4	38,500
48	65.8	98.5	31,900
110 Ft. BOOM			
22	82.3	116.9	231,800 *
24	81.2	116.5	223,800 *
26	80.2	116.2	200,100
28	79.1	115.7	168,400
30	78.0	115.3	143,100
32	77.0	114.8	122,400
34	75.9	114.3	105,100
36	74.8	113.7	90,500
38	73.7	113.1	78,000
40	72.6	112.5	67,100
42	71.5	111.8	57,700
44	70.4	111.0	49,300
120 Ft. BOOM			
22	82.9	127.0	228,600 *
24	82.0	126.7	221,500 *
26	81.0	126.3	203,700
28	80.0	125.9	171,900
30	79.1	125.5	146,500
32	78.1	125.1	125,700
34	77.1	124.6	108,400
36	76.1	124.1	93,700
38	75.1	123.5	81,100