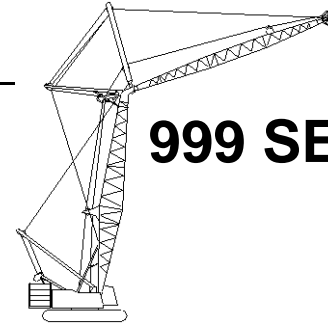




Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
ANSI B30.5
Requirements**



999 SERIES 2

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

190 Ft. boom length without intermediate fall in luffing jib requires only the middle two sheaves in the lower boom point; all other sheaves must be removed from lower boom point.

Lower boom point assembly must be completely removed from 190 Ft. boom length with intermediate fall in luffing jib. Additionally, 190 Ft. boom capacity column cannot be used.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. Weight of luffing jib and 2,825 Lbs. suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. 196199** or **No. A09286** (Boom No. 22EL) or **No. 196200** or **No. A09287** (Boom No. 82), Wire Rope Specification chart **No. 8250-A** and Luffing Jib Raising Procedure chart **No. 8248-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

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

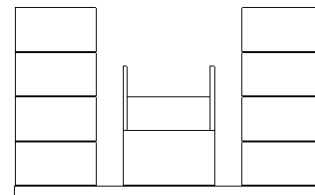
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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

MACHINE EQUIPMENT: Machine equipped with 28 Ft. 2 in. crawlers, 48 in. treads, 10 Ft. 3 in. retractable gantry, 30 Ft. live mast, 20 part boom hoist reeving, boom support straps or four 1-3/8 in. boom pendants, 8 part luffing jib hoist reeving, two 1-1/2 in. luffing jib pendants and backstays, 184,600 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

Consult Chart **No. 8236-A** for main luffing jib capacities. Consult Chart **No. 8583-A** for intermediate fall capacities.

Fixed jib No. 138 must be removed before use of this chart.



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

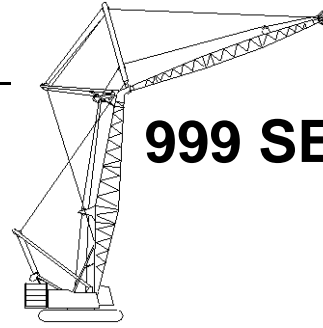
Luffing Jib Position During Operation	
Luffing Jib Length - Feet	Boom To Luffing Jib Angle
70	140 Degrees
80 - 90	150 Degrees
100 - 120	160 Degrees
130 - 170	168 Degrees

Intermediate Fall Deduct
Deduct 2,600 Lbs. from capacities when luffing jib is equipped with intermediate fall.

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



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

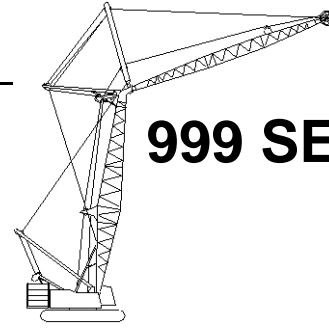
**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	394,000 *
17	82.0	77.1	370,600 *
18	81.1	76.9	349,600 *
19	80.3	76.7	330,600 *
20	79.5	76.5	313,300 *
22	77.8	76.0	283,100 *
24	76.1	75.5	257,500 *
26	74.4	74.9	235,600 *
28	72.7	74.2	216,700 *
30	70.9	73.5	200,100 *
80 Ft. BOOM			
17	83.0	87.2	369,300 *
18	82.3	87.0	349,200 *
19	81.5	86.9	330,200 *
20	80.8	86.7	313,000 *
22	79.3	86.3	282,800 *
24	77.9	85.8	257,300 *
26	76.4	85.3	235,400 *
28	74.9	84.7	216,500 *
30	73.4	84.1	199,900 *
32	71.9	83.4	185,300 *
34	70.4	82.7	171,300 *
90 Ft. BOOM			
19	82.5	97.0	329,400 *
20	81.8	96.8	312,900 *
22	80.5	96.5	282,700 *
24	79.2	96.1	257,200 *
26	77.9	95.6	235,300 *
28	76.6	95.1	216,400 *
30	75.3	94.6	199,800 *
32	74.0	94.0	185,200 *
34	72.6	93.3	172,100 *
36	71.3	92.6	156,100 *
100 Ft. BOOM			
20	82.7	107.0	312,900 *
22	81.5	106.6	282,700 *
24	80.3	106.3	257,200 *
26	79.2	105.9	235,400 *
28	78.0	105.4	216,500 *
30	76.8	104.9	200,000 *
32	75.6	104.4	185,400 *
34	74.4	103.8	172,400 *
36	73.2	103.2	156,700 *
38	72.0	102.5	143,000 *
40	70.8	101.8	131,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	282,300 *
24	81.2	116.4	256,900 *
26	80.2	116.1	235,000 *
28	79.1	115.7	216,100 *
30	78.0	115.2	199,600 *
32	77.0	114.7	185,000 *
34	75.9	114.2	172,000 *
36	74.8	113.6	157,100 *
38	73.7	113.0	143,300 *
40	72.6	112.4	131,400 *
42	71.5	111.7	120,900 *
44	70.4	110.9	111,700 *
120 Ft. BOOM			
22	82.9	126.9	275,700 *
24	82.0	126.6	256,600 *
26	81.0	126.2	234,800 *
28	80.0	125.9	215,900 *
30	79.1	125.5	199,400 *
32	78.1	125.0	184,800 *
34	77.1	124.5	171,800 *
36	76.1	124.0	157,300 *
38	75.1	123.5	143,500 *
40	74.1	122.9	131,600 *
42	73.1	122.2	121,100 *
44	72.1	121.6	111,900 *
46	71.1	120.9	103,700 *
48	70.1	120.1	96,400 *
130 Ft. BOOM			
24	82.6	136.7	241,400 *
26	81.7	136.4	234,600 *
28	80.8	136.0	215,800 *
30	79.9	135.7	199,300 *
32	79.0	135.3	184,700 *
34	78.1	134.8	171,800 *
36	77.2	134.3	157,700 *
38	76.3	133.8	143,900 *
40	75.4	133.3	131,900 *
42	74.5	132.7	121,400 *
44	73.5	132.1	112,200 *
46	72.6	131.5	104,000 *
48	71.7	130.8	96,600 *
50	70.7	130.1	90,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
140 Ft. BOOM			
26	82.3	146.5	223,200 *
28	81.5	146.2	215,500 *
30	80.6	145.8	199,000 *
32	79.8	145.5	184,400 *
34	79.0	145.1	171,500 *
36	78.1	144.6	157,800 *
38	77.3	144.1	144,000 *
40	76.4	143.6	132,000 *
42	75.6	143.1	121,500 *
44	74.7	142.5	112,300 *
46	73.9	141.9	104,100 *
48	73.0	141.3	96,700 *
50	72.2	140.7	90,100 *
150 Ft. BOOM			
26	82.8	156.6	199,100 *
28	82.0	156.3	194,200 *
30	81.3	156.0	189,500 *
32	80.5	155.6	183,800 *
34	79.7	155.3	170,900 *
36	78.9	154.8	157,900 *
38	78.2	154.4	144,100 *
40	77.4	153.9	132,100 *
42	76.6	153.5	121,500 *
44	75.8	152.9	112,300 *
46	75.0	152.4	104,000 *
48	74.2	151.8	96,600 *
50	73.4	151.2	90,000 *
55	71.4	149.5	76,000 *
160 Ft. BOOM			
28	82.5	166.4	184,800 *
30	81.8	166.1	180,300 *
32	81.1	165.8	175,900 *
34	80.4	165.4	170,400 *
36	79.6	165.1	157,900 *
38	78.9	164.6	144,000 *
40	78.2	164.2	132,000 *
42	77.4	163.7	121,500 *
44	76.7	163.3	112,200 *
46	76.0	162.7	103,900 *
48	75.2	162.2	96,500 *
50	74.5	161.6	89,900 *
55	72.6	160.1	75,800 *
60	70.7	158.3	64,600 *



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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	176.5	169,000 *
30	82.3	176.2	165,500 *
32	81.6	175.9	162,100 *
34	80.9	175.6	158,700 *
36	80.3	175.2	155,300 *
38	79.6	174.9	144,100
40	78.9	174.4	132,000
42	78.2	174.0	121,500
44	77.5	173.6	112,200
46	76.8	173.1	103,900
48	76.1	172.6	96,500
50	75.4	172.0	89,900
55	73.7	170.6	75,800
60	71.9	168.9	64,600
65	70.1	167.1	55,400
180 Ft. BOOM			
30	82.7	186.3	155,800 *
32	82.1	186.0	152,700 *
34	81.4	185.7	149,500 *
36	80.8	185.4	146,300 *
38	80.2	185.0	143,200 *
40	79.5	184.6	131,900
42	78.9	184.2	121,400
44	78.2	183.8	112,000
46	77.6	183.4	103,800
48	76.9	182.9	96,400
50	76.2	182.4	89,700
55	74.6	181.0	75,600
60	72.9	179.5	64,300
65	71.2	177.8	55,100

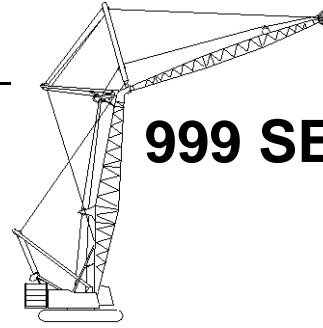
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	112,500
46	78.2	193.6	104,200
48	77.6	193.2	96,800
50	77.0	192.7	90,100
55	75.4	191.4	76,000
60	73.9	189.9	64,700
65	72.3	188.4	55,400
70	70.7	186.6	47,700



Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
ANSI B30.5
Requirements**



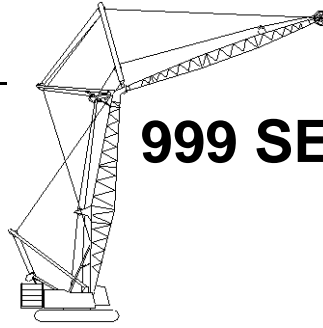
999 SERIES 2

80 Ft. Luffing Jib, Attached At 150 Degree Boom To Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	394,200 *
17	82.0	77.1	370,700 *
18	81.1	76.9	349,500 *
19	80.3	76.7	330,300 *
20	79.5	76.5	312,900 *
22	77.8	76.0	282,400 *
24	76.1	75.5	256,700 *
26	74.4	74.9	234,700 *
28	72.7	74.2	215,600 *
30	70.9	73.5	198,900 *
32	69.2	72.7	184,100 *
34	67.4	71.8	169,100 *
36	65.6	70.9	153,200 *
80 Ft. BOOM			
17	83.0	87.2	370,300 *
18	82.3	87.0	349,300 *
19	81.5	86.9	330,100 *
20	80.8	86.7	312,700 *
22	79.3	86.3	282,300 *
24	77.9	85.8	256,600 *
26	76.4	85.3	234,600 *
28	74.9	84.7	215,500 *
30	73.4	84.1	198,800 *
32	71.9	83.4	184,100 *
34	70.4	82.7	170,200 *
36	68.8	81.9	154,200 *
38	67.3	81.0	140,500 *
40	65.7	80.0	128,600 *
42	64.1	79.0	118,200 *
90 Ft. BOOM			
19	82.5	97.0	330,100 *
20	81.8	96.8	312,700 *
22	80.5	96.5	282,400 *
24	79.2	96.1	256,700 *
26	77.9	95.6	234,700 *
28	76.6	95.1	215,600 *
30	75.3	94.6	198,900 *
32	74.0	94.0	184,200 *
34	72.6	93.3	171,200 *
36	71.3	92.6	155,100 *
38	69.9	91.8	141,300 *
40	68.6	91.0	129,400 *
42	67.2	90.1	119,000 *
44	65.8	89.2	109,800 *
46	64.3	88.2	101,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	312,900 *
22	81.5	106.6	282,500 *
24	80.3	106.3	256,900 *
26	79.2	105.9	234,900 *
28	78.0	105.4	215,800 *
30	76.8	104.9	199,200 *
32	75.6	104.4	184,500 *
34	74.4	103.8	171,500 *
36	73.2	103.2	155,800 *
38	72.0	102.5	142,100 *
40	70.8	101.8	130,100 *
42	69.6	101.0	119,700 *
44	68.3	100.2	110,400 *
46	67.1	99.3	102,200 *
48	65.8	98.4	94,900 *
50	64.6	97.4	88,300 *
110 Ft. BOOM			
22	82.3	116.8	282,200 *
24	81.2	116.4	256,600 *
26	80.2	116.1	234,600 *
28	79.1	115.7	215,600 *
30	78.0	115.2	198,900 *
32	77.0	114.7	184,200 *
34	75.9	114.2	171,200 *
36	74.8	113.6	156,300 *
38	73.7	113.0	142,500 *
40	72.6	112.4	130,500 *
42	71.5	111.7	120,000 *
44	70.4	110.9	110,800 *
46	69.3	110.2	102,600 *
48	68.2	109.3	95,200 *
50	67.0	108.5	88,600 *
55	64.1	106.1	74,600 *
120 Ft. BOOM			
22	82.9	126.9	277,300 *
24	82.0	126.6	256,400 *
26	81.0	126.2	234,500 *
28	80.0	125.9	215,400 *
30	79.1	125.5	198,800 *
32	78.1	125.0	184,100 *
34	77.1	124.5	171,100 *
36	76.1	124.0	156,700 *
38	75.1	123.5	142,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
40	74.1	122.9	130,800 *
42	73.1	122.2	120,300 *
44	72.1	121.6	111,100 *
46	71.1	120.9	102,800 *
48	70.1	120.1	95,500 *
50	69.1	119.3	88,800 *
55	66.5	117.2	74,800 *
130 Ft. BOOM			
24	82.6	136.7	243,700 *
26	81.7	136.4	234,400 *
28	80.8	136.0	215,400 *
30	79.9	135.7	198,800 *
32	79.0	135.3	184,100 *
34	78.1	134.8	171,100 *
36	77.2	134.3	157,100 *
38	76.3	133.8	143,300 *
40	75.4	133.3	131,200 *
42	74.5	132.7	120,700 *
44	73.5	132.1	111,400 *
46	72.6	131.5	103,200 *
48	71.7	130.8	95,800 *
50	70.7	130.1	89,100 *
55	68.4	128.1	75,100 *
60	66.0	125.9	63,900 *
140 Ft. BOOM			
26	82.3	146.5	225,600 *
28	81.5	146.2	215,200 *
30	80.6	145.8	198,600 *
32	79.8	145.5	183,900 *
34	79.0	145.1	170,900 *
36	78.1	144.6	157,400 *
38	77.3	144.1	143,500 *
40	76.4	143.6	131,400 *
42	75.6	143.1	120,900 *
44	74.7	142.5	111,600 *
46	73.9	141.9	103,300 *
48	73.0	141.3	95,900 *
50	72.2	140.7	89,300 *
55	70.0	138.9	75,200 *
60	67.8	136.8	64,000 *
65	65.5	134.6	54,800 *



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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
150 Ft. BOOM			
26	82.8	156.6	201,500 *
28	82.0	156.3	196,500 *
30	81.3	156.0	191,500 *
32	80.5	155.6	183,400 *
34	79.7	155.3	170,300 *
36	78.9	154.8	157,500
38	78.2	154.4	143,600
40	77.4	153.9	131,500
42	76.6	153.5	120,900
44	75.8	152.9	111,600
46	75.0	152.4	103,300
48	74.2	151.8	95,900
50	73.4	151.2	89,200
55	71.4	149.5	75,100
60	69.4	147.6	63,900
65	67.3	145.6	54,600
70	65.2	143.3	46,900
160 Ft. BOOM			
28	82.5	166.4	187,300 *
30	81.8	166.1	182,700 *
32	81.1	165.8	178,100 *
34	80.4	165.4	169,900 *
36	79.6	165.1	157,600
38	78.9	164.6	143,600
40	78.2	164.2	131,500
42	77.4	163.7	120,900
44	76.7	163.3	111,600
46	76.0	162.7	103,300
48	75.2	162.2	95,900
50	74.5	161.6	89,200
55	72.6	160.1	75,000
60	70.7	158.3	63,700
65	68.8	156.4	54,500
70	66.8	154.3	46,800
75	64.9	152.0	40,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.5	171,600 *
30	82.3	176.2	167,900 *
32	81.6	175.9	164,300 *
34	80.9	175.6	160,800 *
36	80.3	175.2	157,200 *
38	79.6	174.9	143,700
40	78.9	174.4	131,600
42	78.2	174.0	121,000
44	77.5	173.6	111,600
46	76.8	173.1	103,300
48	76.1	172.6	95,900
50	75.4	172.0	89,200
55	73.7	170.6	75,100
60	71.9	168.9	63,800
65	70.1	167.1	54,500
70	68.3	165.2	46,800
75	66.4	163.0	40,300
80	64.6	160.6	34,700
180 Ft. BOOM			
30	82.7	186.3	158,500 *
32	82.1	186.0	155,200 *
34	81.4	185.7	151,800 *
36	80.8	185.4	148,500 *
38	80.2	185.0	143,700
40	79.5	184.6	131,500
42	78.9	184.2	120,900
44	78.2	183.8	111,500
46	77.6	183.4	103,200
48	76.9	182.9	95,800
50	76.2	182.4	89,100
55	74.6	181.0	74,900
60	72.9	179.5	63,600
65	71.2	177.8	54,300
70	69.5	175.9	46,600
75	67.8	173.9	40,100
80	66.1	171.7	34,400
85	64.3	169.3	29,600

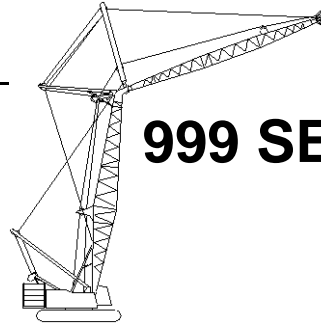
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	112,100
46	78.2	193.6	103,700
48	77.6	193.2	96,200
50	77.0	192.7	89,500
55	75.4	191.4	75,300
60	73.9	189.9	64,000
65	72.3	188.4	54,700
70	70.7	186.6	46,900
75	69.1	184.7	40,400
80	67.4	182.7	34,800
85	65.8	180.4	29,900
90	64.1	178.0	25,600



Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
ANSI B30.5
Requirements**



999 SERIES 2

90 Ft. Luffing Jib, Attached At 150 Degree Boom To Luffing Jib Angle

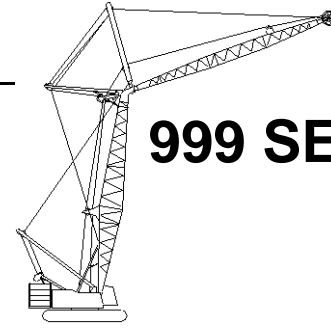
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	389,800 *
17	82.0	77.1	366,400 *
18	81.1	76.9	345,300 *
19	80.3	76.7	326,300 *
20	79.5	76.5	309,000 *
22	77.8	76.0	278,700 *
24	76.1	75.5	253,100 *
26	74.4	74.9	231,200 *
28	72.7	74.2	212,200 *
30	70.9	73.5	195,600 *
32	69.2	72.7	181,000 *
34	67.4	71.8	165,900 *
36	65.6	70.9	150,100
80 Ft. BOOM			
17	83.0	87.2	366,300 *
18	82.3	87.0	345,200 *
19	81.5	86.9	326,200 *
20	80.8	86.7	308,900 *
22	79.3	86.3	278,700 *
24	77.9	85.8	253,100 *
26	76.4	85.3	231,200 *
28	74.9	84.7	212,300 *
30	73.4	84.1	195,700 *
32	71.9	83.4	181,100 *
34	70.4	82.7	167,100
36	68.8	81.9	151,200
38	67.3	81.0	137,700
40	65.7	80.0	125,900
42	64.1	79.0	115,600
90 Ft. BOOM			
19	82.5	97.0	326,300 *
20	81.8	96.8	309,000 *
22	80.5	96.5	278,800 *
24	79.2	96.1	253,200 *
26	77.9	95.6	231,400 *
28	76.6	95.1	212,400 *
30	75.3	94.6	195,900 *
32	74.0	94.0	181,300 *
34	72.6	93.3	168,100
36	71.3	92.6	152,200
38	69.9	91.8	138,600
40	68.6	91.0	126,800
42	67.2	90.1	116,400
44	65.8	89.2	107,300
46	64.3	88.2	99,200

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

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



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

90 Ft. Luffing Jib, Attached At 150 Degree Boom To Luffing Jib Angle

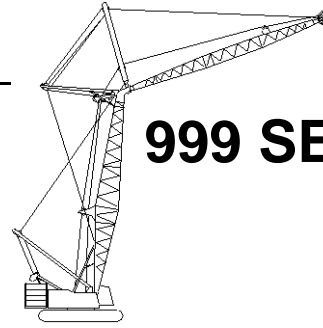
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	198,300 *
28	82.0	156.3	193,300 *
30	81.3	156.0	188,400 *
32	80.5	155.6	180,700 *
34	79.7	155.3	167,700 *
36	78.9	154.8	155,000
38	78.2	154.4	141,200
40	77.4	153.9	129,200
42	76.6	153.5	118,700
44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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.5	168,400 *
30	82.3	176.2	164,900 *
32	81.6	175.9	161,300 *
34	80.9	175.6	157,700 *
36	80.3	175.2	154,200 *
38	79.6	174.9	141,300
40	78.9	174.4	129,300
42	78.2	174.0	118,800
44	77.5	173.6	109,500
46	76.8	173.1	101,300
48	76.1	172.6	93,900
50	75.4	172.0	87,300
55	73.7	170.6	73,300
60	71.9	168.9	62,100
65	70.1	167.1	52,900
70	68.3	165.2	45,300
75	66.4	163.0	38,800
80	64.6	160.6	33,200
180 Ft. BOOM			
30	82.7	186.3	155,400 *
32	82.1	186.0	152,100 *
34	81.4	185.7	148,700 *
36	80.8	185.4	145,500 *
38	80.2	185.0	141,300
40	79.5	184.6	129,300
42	78.9	184.2	118,700
44	78.2	183.8	109,500
46	77.6	183.4	101,200
48	76.9	182.9	93,800
50	76.2	182.4	87,200
55	74.6	181.0	73,100
60	72.9	179.5	61,900
65	71.2	177.8	52,700
70	69.5	175.9	45,100
75	67.8	173.9	38,600
80	66.1	171.7	33,000
85	64.3	169.3	28,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	110,000
46	78.2	193.6	101,700
48	77.6	193.2	94,300
50	77.0	192.7	87,700
55	75.4	191.4	73,600
60	73.9	189.9	62,300
65	72.3	188.4	53,100
70	70.7	186.6	45,400
75	69.1	184.7	38,900
80	67.4	182.7	33,400
85	65.8	180.4	28,500
90	64.1	178.0	24,300



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

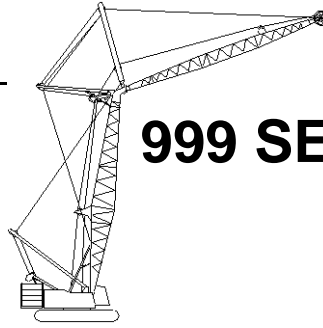
Meets
ANSI B30.5
Requirements

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	393,000 *
17	82.0	77.1	369,200 *
18	81.1	76.9	347,900 *
19	80.3	76.7	328,500 *
20	79.5	76.5	310,900 *
22	77.8	76.0	280,200 *
24	76.1	75.5	254,200 *
26	74.4	74.9	232,000 *
28	72.7	74.2	212,700 *
30	70.9	73.5	195,800 *
32	69.2	72.7	180,900 *
34	67.4	71.8	165,900 *
36	65.6	70.9	149,900 *
38	63.7	69.8	136,200 *
40	61.9	68.7	124,300 *
42	60.0	67.5	113,900 *
44	58.0	66.2	104,700 *
80 Ft. BOOM			
17	83.0	87.2	369,300 *
18	82.3	87.0	347,900 *
19	81.5	86.9	328,600 *
20	80.8	86.7	311,100 *
22	79.3	86.3	280,400 *
24	77.9	85.8	254,500 *
26	76.4	85.3	232,200 *
28	74.9	84.7	213,000 *
30	73.4	84.1	196,200 *
32	71.9	83.4	181,300 *
34	70.4	82.7	167,400 *
36	68.8	81.9	151,400 *
38	67.3	81.0	137,600 *
40	65.7	80.0	125,600 *
42	64.1	79.0	115,200 *
44	62.4	78.0	106,000 *
46	60.8	76.8	97,800 *
48	59.1	75.6	90,400 *
50	57.4	74.3	83,800 *

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

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



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	245,400 *
26	81.7	136.4	233,000 *
28	80.8	136.0	213,800 *
30	79.9	135.7	197,100 *
32	79.0	135.3	182,300 *
34	78.1	134.8	169,200 *
36	77.2	134.3	155,400
38	76.3	133.8	141,500
40	75.4	133.3	129,400
42	74.5	132.7	118,800
44	73.5	132.1	109,500
46	72.6	131.5	101,200
48	71.7	130.8	93,800
50	70.7	130.1	87,100
55	68.4	128.1	73,000
60	66.0	125.9	61,700
65	63.5	123.4	52,400
70	61.0	120.7	44,700
75	58.4	117.6	38,200
140 Ft. BOOM			
26	82.3	146.5	227,500 *
28	81.5	146.2	213,700 *
30	80.6	145.8	196,900 *
32	79.8	145.5	182,200 *
34	79.0	145.1	169,100 *
36	78.1	144.6	155,800
38	77.3	144.1	141,800
40	76.4	143.6	129,700
42	75.6	143.1	119,100
44	74.7	142.5	109,800
46	73.9	141.9	101,500
48	73.0	141.3	94,000
50	72.2	140.7	87,300
55	70.0	138.9	73,200
60	67.8	136.8	61,900
65	65.5	134.6	52,600
70	63.3	132.1	44,900
75	60.9	129.3	38,400
80	58.5	126.3	32,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	203,500 *
28	82.0	156.3	198,300 *
30	81.3	156.0	193,100 *
32	80.5	155.6	181,700 *
34	79.7	155.3	168,600 *
36	78.9	154.8	156,100
38	78.2	154.4	142,000
40	77.4	153.9	129,900
42	76.6	153.5	119,300
44	75.8	152.9	109,900
46	75.0	152.4	101,600
48	74.2	151.8	94,100
50	73.4	151.2	87,400
55	71.4	149.5	73,200
60	69.4	147.6	61,900
65	67.3	145.6	52,600
70	65.2	143.3	44,900
75	63.0	140.8	38,300
80	60.9	138.0	32,700
85	58.6	135.0	27,800
160 Ft. BOOM			
28	82.5	166.4	189,500 *
30	81.8	166.1	184,600 *
32	81.1	165.8	179,800 *
34	80.4	165.4	168,300 *
36	79.6	165.1	156,200
38	78.9	164.6	142,200
40	78.2	164.2	130,000
42	77.4	163.7	119,400
44	76.7	163.3	110,000
46	76.0	162.7	101,600
48	75.2	162.2	94,200
50	74.5	161.6	87,400
55	72.6	160.1	73,200

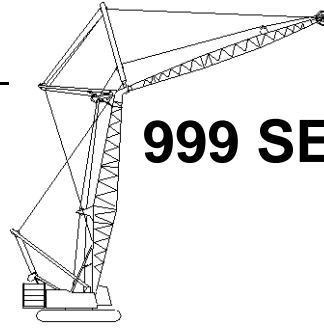
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
60	70.7	158.3	61,900
65	68.8	156.4	52,600
70	66.8	154.3	44,800
75	64.9	152.0	38,300
80	62.9	149.4	32,700
85	60.8	146.7	27,800
90	58.7	143.6	23,500
170 Ft. BOOM			
28	83.0	176.5	173,800 *
30	82.3	176.2	170,000 *
32	81.6	175.9	166,200 *
34	80.9	175.6	162,400 *
36	80.3	175.2	156,400
38	79.6	174.9	142,300
40	78.9	174.4	130,200
42	78.2	174.0	119,500
44	77.5	173.6	110,100
46	76.8	173.1	101,800
48	76.1	172.6	94,300
50	75.4	172.0	87,600
55	73.7	170.6	73,300
60	71.9	168.9	62,000
65	70.1	167.1	52,700
70	68.3	165.2	44,900
75	66.4	163.0	38,400
80	64.6	160.6	32,700
85	62.7	158.1	27,800
90	60.8	155.3	23,600
95	58.8	152.3	19,800



Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
ANSI B30.5
Requirements**

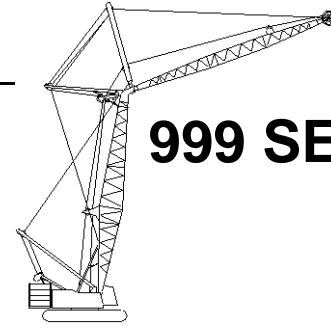


999 SERIES 2

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	160,900 *
32	82.1	186.0	157,300 *
34	81.4	185.7	153,800 *
36	80.8	185.4	150,300 *
38	80.2	185.0	142,400
40	79.5	184.6	130,200
42	78.9	184.2	119,500
44	78.2	183.8	110,100
46	77.6	183.4	101,700
48	76.9	182.9	94,200
50	76.2	182.4	87,500
55	74.6	181.0	73,300
60	72.9	179.5	61,900
65	71.2	177.8	52,600
70	69.5	175.9	44,800
75	67.8	173.9	38,200
80	66.1	171.7	32,600
85	64.3	169.3	27,700
90	62.5	166.8	23,400
95	60.7	164.0	19,600
100	58.9	161.0	16,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	110,700
46	78.2	193.6	102,300
48	77.6	193.2	94,800
50	77.0	192.7	88,000
55	75.4	191.4	73,700
60	73.9	189.9	62,300
65	72.3	188.4	53,000
70	70.7	186.6	45,200
75	69.1	184.7	38,600
80	67.4	182.7	33,000
85	65.8	180.4	28,100
90	64.1	178.0	23,800
95	62.4	175.4	20,000
100	60.7	172.6	16,600
105	58.9	169.6	13,600
110	57.1	166.4	10,900



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	390,100 *
17	82.0	77.1	366,400 *
18	81.1	76.9	345,100 *
19	80.3	76.7	325,800 *
20	79.5	76.5	308,300 *
22	77.8	76.0	277,700 *
24	76.1	75.5	251,800 *
26	74.4	74.9	229,600 *
28	72.7	74.2	210,400 *
30	70.9	73.5	193,600 *
32	69.2	72.7	178,700 *
34	67.4	71.8	163,500 *
36	65.6	70.9	147,600 *
38	63.7	69.8	134,000 *
40	61.9	68.7	122,200 *
42	60.0	67.5	111,900 *
44	58.0	66.2	102,800 *
80 Ft. BOOM			
17	83.0	87.2	366,500 *
18	82.3	87.0	345,200 *
19	81.5	86.9	326,000 *
20	80.8	86.7	308,500 *
22	79.3	86.3	278,000 *
24	77.9	85.8	252,100 *
26	76.4	85.3	230,000 *
28	74.9	84.7	210,800 *
30	73.4	84.1	194,000 *
32	71.9	83.4	179,200 *
34	70.4	82.7	165,200 *
36	68.8	81.9	149,200 *
38	67.3	81.0	135,500 *
40	65.7	80.0	123,700 *
42	64.1	79.0	113,300 *
44	62.4	78.0	104,100 *
46	60.8	76.8	96,000 *
48	59.1	75.6	88,700 *
50	57.4	74.3	82,200 *

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

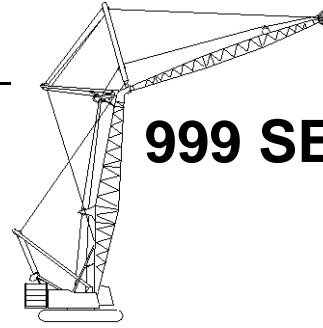
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	278,600 *
24	81.2	116.4	252,900 *
26	80.2	116.1	230,800 *
28	79.1	115.7	211,700 *
30	78.0	115.2	195,000 *
32	77.0	114.7	180,300 *
34	75.9	114.2	167,200 *
36	74.8	113.6	152,400 *
38	73.7	113.0	138,600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



Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
ANSI B30.5
Requirements**



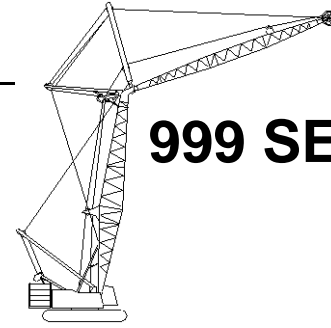
999 SERIES 2

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	243,700 *
26	81.7	136.4	231,000 *
28	80.8	136.0	211,900 *
30	79.9	135.7	195,300 *
32	79.0	135.3	180,600 *
34	78.1	134.8	167,500 *
36	77.2	134.3	153,600
38	76.3	133.8	139,800
40	75.4	133.3	127,800
42	74.5	132.7	117,300
44	73.5	132.1	108,000
46	72.6	131.5	99,700
48	71.7	130.8	92,400
50	70.7	130.1	85,700
55	68.4	128.1	71,700
60	66.0	125.9	60,500
65	63.5	123.4	51,300
70	61.0	120.7	43,700
75	58.4	117.6	37,200
140 Ft. BOOM			
26	82.3	146.5	225,700 *
28	81.5	146.2	211,800 *
30	80.6	145.8	195,200 *
32	79.8	145.5	180,500 *
34	79.0	145.1	167,400 *
36	78.1	144.6	154,000
38	77.3	144.1	140,100
40	76.4	143.6	128,100
42	75.6	143.1	117,600
44	74.7	142.5	108,300
46	73.9	141.9	100,100
48	73.0	141.3	92,700
50	72.2	140.7	86,000
55	70.0	138.9	72,000
60	67.8	136.8	60,800
65	65.5	134.6	51,600
70	63.3	132.1	43,900
75	60.9	129.3	37,400
80	58.5	126.3	31,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	201,900 *
28	82.0	156.3	196,600 *
30	81.3	156.0	191,400 *
32	80.5	155.6	180,100 *
34	79.7	155.3	167,000 *
36	78.9	154.8	154,400
38	78.2	154.4	140,400
40	77.4	153.9	128,400
42	76.6	153.5	117,800
44	75.8	152.9	108,500
46	75.0	152.4	100,200
48	74.2	151.8	92,800
50	73.4	151.2	86,100
55	71.4	149.5	72,000
60	69.4	147.6	60,800
65	67.3	145.6	51,600
70	65.2	143.3	43,900
75	63.0	140.8	37,400
80	60.9	138.0	31,800
85	58.6	135.0	26,900
160 Ft. BOOM			
28	82.5	166.4	187,700 *
30	81.8	166.1	182,900 *
32	81.1	165.8	178,100 *
34	80.4	165.4	166,700 *
36	79.6	165.1	154,500
38	78.9	164.6	140,600
40	78.2	164.2	128,500
42	77.4	163.7	117,900
44	76.7	163.3	108,600
46	76.0	162.7	100,300
48	75.2	162.2	92,900
50	74.5	161.6	86,200
55	72.6	160.1	72,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
60	70.7	158.3	60,800
65	68.8	156.4	51,600
70	66.8	154.3	43,900
75	64.9	152.0	37,300
80	62.9	149.4	31,800
85	60.8	146.7	26,900
90	58.7	143.6	22,700
170 Ft. BOOM			
28	83.0	176.5	172,200 *
30	82.3	176.2	168,400 *
32	81.6	175.9	164,500 *
34	80.9	175.6	160,800 *
36	80.3	175.2	154,700
38	79.6	174.9	140,800
40	78.9	174.4	128,700
42	78.2	174.0	118,100
44	77.5	173.6	108,800
46	76.8	173.1	100,500
48	76.1	172.6	93,000
50	75.4	172.0	86,300
55	73.7	170.6	72,200
60	71.9	168.9	60,900
65	70.1	167.1	51,700
70	68.3	165.2	44,000
75	66.4	163.0	37,400
80	64.6	160.6	31,800
85	62.7	158.1	27,000
90	60.8	155.3	22,800
95	58.8	152.3	19,000



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

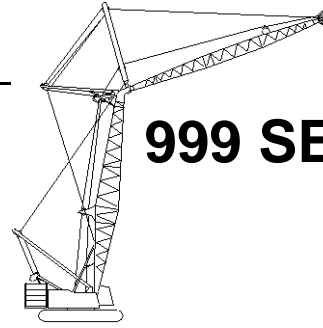
110 Ft. Luffing Jib, Attached At 160 Degree Boom To Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	159,200 *
32	82.1	186.0	155,700 *
34	81.4	185.7	152,100 *
36	80.8	185.4	148,600 *
38	80.2	185.0	140,800
40	79.5	184.6	128,700
42	78.9	184.2	118,100
44	78.2	183.8	108,700
46	77.6	183.4	100,400
48	76.9	182.9	93,000
50	76.2	182.4	86,300
55	74.6	181.0	72,200
60	72.9	179.5	60,800
65	71.2	177.8	51,600
70	69.5	175.9	43,900
75	67.8	173.9	37,300
80	66.1	171.7	31,700
85	64.3	169.3	26,900
90	62.5	166.8	22,600
95	60.7	164.0	18,900
100	58.9	161.0	15,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	109,400
46	78.2	193.6	101,000
48	77.6	193.2	93,600
50	77.0	192.7	86,800
55	75.4	191.4	72,700
60	73.9	189.9	61,300
65	72.3	188.4	52,000
70	70.7	186.6	44,300
75	69.1	184.7	37,700
80	67.4	182.7	32,100
85	65.8	180.4	27,200
90	64.1	178.0	23,000
95	62.4	175.4	19,200
100	60.7	172.6	15,900
105	58.9	169.6	12,900
110	57.1	166.4	10,200



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

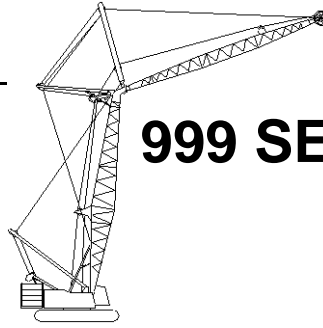
Meets
ANSI B30.5
Requirements

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	385,700 *
17	82.0	77.1	362,100 *
18	81.1	76.9	340,800 *
19	80.3	76.7	321,600 *
20	79.5	76.5	304,200 *
22	77.8	76.0	273,700 *
24	76.1	75.5	247,900 *
26	74.4	74.9	225,800 *
28	72.7	74.2	206,600 *
30	70.9	73.5	189,900 *
32	69.2	72.7	175,100 *
34	67.4	71.8	159,900
36	65.6	70.9	144,100
38	63.7	69.8	130,600
40	61.9	68.7	118,900
42	60.0	67.5	108,600
44	58.0	66.2	99,600
80 Ft. BOOM			
17	83.0	87.2	362,300 *
18	82.3	87.0	341,100 *
19	81.5	86.9	321,900 *
20	80.8	86.7	304,500 *
22	79.3	86.3	274,100 *
24	77.9	85.8	248,300 *
26	76.4	85.3	226,300 *
28	74.9	84.7	207,200 *
30	73.4	84.1	190,500 *
32	71.9	83.4	175,800 *
34	70.4	82.7	161,700
36	68.8	81.9	145,900
38	67.3	81.0	132,300
40	65.7	80.0	120,500
42	64.1	79.0	110,200
44	62.4	78.0	101,200
46	60.8	76.8	93,100
48	59.1	75.6	85,900
50	57.4	74.3	79,300

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

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



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	240,200 *
26	81.7	136.4	227,800 *
28	80.8	136.0	208,800 *
30	79.9	135.7	192,200 *
32	79.0	135.3	177,500 *
34	78.1	134.8	164,500 *
36	77.2	134.3	150,800
38	76.3	133.8	137,000
40	75.4	133.3	125,100
42	74.5	132.7	114,700
44	73.5	132.1	105,500
46	72.6	131.5	97,300
48	71.7	130.8	90,000
50	70.7	130.1	83,400
55	68.4	128.1	69,500
60	66.0	125.9	58,300
65	63.5	123.4	49,200
70	61.0	120.7	41,600
75	58.4	117.6	35,200
140 Ft. BOOM			
26	82.3	146.5	222,100 *
28	81.5	146.2	208,700 *
30	80.6	145.8	192,100 *
32	79.8	145.5	177,500 *
34	79.0	145.1	164,500 *
36	78.1	144.6	151,200
38	77.3	144.1	137,500
40	76.4	143.6	125,500
42	75.6	143.1	115,100
44	74.7	142.5	105,900
46	73.9	141.9	97,700
48	73.0	141.3	90,300
50	72.2	140.7	83,700
55	70.0	138.9	69,800
60	67.8	136.8	58,600
65	65.5	134.6	49,500
70	63.3	132.1	41,900
75	60.9	129.3	35,500
80	58.5	126.3	30,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	198,500 *
28	82.0	156.3	193,200 *
30	81.3	156.0	188,000 *
32	80.5	155.6	177,100 *
34	79.7	155.3	164,100 *
36	78.9	154.8	151,600
38	78.2	154.4	137,800
40	77.4	153.9	125,800
42	76.6	153.5	115,300
44	75.8	152.9	106,100
46	75.0	152.4	97,900
48	74.2	151.8	90,500
50	73.4	151.2	83,900
55	71.4	149.5	69,900
60	69.4	147.6	58,700
65	67.3	145.6	49,600
70	65.2	143.3	41,900
75	63.0	140.8	35,500
80	60.9	138.0	29,900
85	58.6	135.0	25,100
160 Ft. BOOM			
28	82.5	166.4	184,300 *
30	81.8	166.1	179,400 *
32	81.1	165.8	174,600 *
34	80.4	165.4	163,900 *
36	79.6	165.1	151,800
38	78.9	164.6	138,000
40	78.2	164.2	126,000
42	77.4	163.7	115,500
44	76.7	163.3	106,200
46	76.0	162.7	98,000
48	75.2	162.2	90,600
50	74.5	161.6	84,000
55	72.6	160.1	70,000

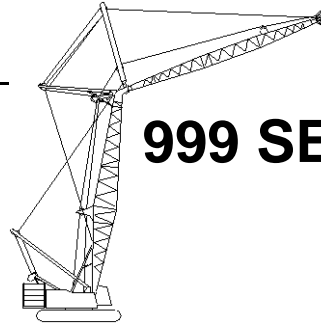
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
60	70.7	158.3	58,800
65	68.8	156.4	49,600
70	66.8	154.3	42,000
75	64.9	152.0	35,500
80	62.9	149.4	30,000
85	60.8	146.7	25,100
90	58.7	143.6	20,900
170 Ft. BOOM			
28	83.0	176.5	168,900 *
30	82.3	176.2	165,100 *
32	81.6	175.9	161,300 *
34	80.9	175.6	157,500 *
36	80.3	175.2	152,100
38	79.6	174.9	138,200
40	78.9	174.4	126,200
42	78.2	174.0	115,700
44	77.5	173.6	106,400
46	76.8	173.1	98,200
48	76.1	172.6	90,800
50	75.4	172.0	84,200
55	73.7	170.6	70,100
60	71.9	168.9	58,900
65	70.1	167.1	49,800
70	68.3	165.2	42,100
75	66.4	163.0	35,600
80	64.6	160.6	30,100
85	62.7	158.1	25,300
90	60.8	155.3	21,100
95	58.8	152.3	17,300



Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
 ANSI B30.5
 Requirements**

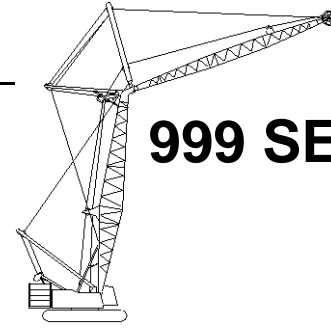


999 SERIES 2

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	155,900 *
32	82.1	186.0	152,400 *
34	81.4	185.7	148,900 *
36	80.8	185.4	145,400 *
38	80.2	185.0	138,300
40	79.5	184.6	126,300
42	78.9	184.2	115,700
44	78.2	183.8	106,500
46	77.6	183.4	98,200
48	76.9	182.9	90,800
50	76.2	182.4	84,200
55	74.6	181.0	70,100
60	72.9	179.5	58,900
65	71.2	177.8	49,700
70	69.5	175.9	42,000
75	67.8	173.9	35,500
80	66.1	171.7	30,000
85	64.3	169.3	25,200
90	62.5	166.8	21,000
95	60.7	164.0	17,200
100	58.9	161.0	13,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	116,400
44	78.8	194.0	107,100
46	78.2	193.6	98,800
48	77.6	193.2	91,400
50	77.0	192.7	84,700
55	75.4	191.4	70,600
60	73.9	189.9	59,400
65	72.3	188.4	50,200
70	70.7	186.6	42,500
75	69.1	184.7	36,000
80	67.4	182.7	30,400
85	65.8	180.4	25,600
90	64.1	178.0	21,300
95	62.4	175.4	17,600
100	60.7	172.6	14,300
105	58.9	169.6	11,300



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

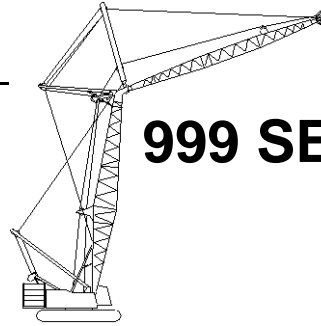
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	391,600 *
17	82.0	77.1	367,500 *
18	81.1	76.9	345,800 *
19	80.3	76.7	326,200 *
20	79.5	76.5	308,400 *
22	77.8	76.0	277,200 *
24	76.1	75.5	250,900 *
26	74.4	74.9	228,300 *
28	72.7	74.2	208,800 *
30	70.9	73.5	191,700 *
32	69.2	72.7	176,600 *
34	67.4	71.8	161,400 *
36	65.6	70.9	145,300 *
38	63.7	69.8	131,500 *
40	61.9	68.7	119,500 *
42	60.0	67.5	109,000 *
44	58.0	66.2	99,800 *
46	56.0	64.8	91,600 *
48	54.0	63.4	84,200 *
50	51.9	61.7	77,600 *
80 Ft. BOOM			
17	83.0	87.2	367,900 *
18	82.3	87.0	346,300 *
19	81.5	86.9	326,700 *
20	80.8	86.7	308,900 *
22	79.3	86.3	277,900 *
24	77.9	85.8	251,600 *
26	76.4	85.3	229,100 *
28	74.9	84.7	209,600 *
30	73.4	84.1	192,600 *
32	71.9	83.4	177,500 *
34	70.4	82.7	163,600 *
36	68.8	81.9	147,400 *
38	67.3	81.0	133,500 *
40	65.7	80.0	121,500 *
42	64.1	79.0	111,000 *
44	62.4	78.0	101,700 *
46	60.8	76.8	93,400 *
48	59.1	75.6	86,100 *
50	57.4	74.3	79,400 *
55	52.9	70.6	65,300 *

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

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



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

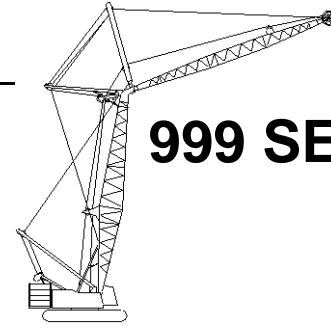
**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	247,100 *
26	81.7	136.4	231,200 *
28	80.8	136.0	211,900 *
30	79.9	135.7	194,900 *
32	79.0	135.3	180,000 *
34	78.1	134.8	166,800 *
36	77.2	134.3	153,200
38	76.3	133.8	139,100
40	75.4	133.3	127,000
42	74.5	132.7	116,300
44	73.5	132.1	106,900
46	72.6	131.5	98,600
48	71.7	130.8	91,100
50	70.7	130.1	84,400
55	68.4	128.1	70,100
60	66.0	125.9	58,800
65	63.5	123.4	49,500
70	61.0	120.7	41,700
75	58.4	117.6	35,100
80	55.8	114.3	29,500
85	53.0	110.6	24,600
140 Ft. BOOM			
26	82.3	146.5	229,400 *
28	81.5	146.2	211,900 *
30	80.6	145.8	195,000 *
32	79.8	145.5	180,100 *
34	79.0	145.1	166,800 *
36	78.1	144.6	153,700
38	77.3	144.1	139,600
40	76.4	143.6	127,500
42	75.6	143.1	116,800
44	74.7	142.5	107,400
46	73.9	141.9	99,000
48	73.0	141.3	91,500
50	72.2	140.7	84,800
55	70.0	138.9	70,600
60	67.8	136.8	59,200
65	65.5	134.6	49,900
70	63.3	132.1	42,100
75	60.9	129.3	35,500
80	58.5	126.3	29,900
85	56.1	123.0	25,000
90	53.5	119.3	20,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	205,600 *
28	82.0	156.3	200,000 *
30	81.3	156.0	194,600 *
32	80.5	155.6	179,800 *
34	79.7	155.3	166,500 *
36	78.9	154.8	154,100
38	78.2	154.4	140,000
40	77.4	153.9	127,800
42	76.6	153.5	117,100
44	75.8	152.9	107,700
46	75.0	152.4	99,300
48	74.2	151.8	91,800
50	73.4	151.2	85,000
55	71.4	149.5	70,800
60	69.4	147.6	59,300
65	67.3	145.6	50,000
70	65.2	143.3	42,200
75	63.0	140.8	35,600
80	60.9	138.0	29,900
85	58.6	135.0	25,000
90	56.3	131.7	20,700
95	54.0	128.1	16,900
100	51.6	124.2	13,600
160 Ft. BOOM			
28	82.5	166.4	191,600 *
30	81.8	166.1	186,400 *
32	81.1	165.8	179,600 *
34	80.4	165.4	166,300 *
36	79.6	165.1	154,400
38	78.9	164.6	140,300
40	78.2	164.2	128,100
42	77.4	163.7	117,300
44	76.7	163.3	107,900
46	76.0	162.7	99,500
48	75.2	162.2	92,000
50	74.5	161.6	85,200
55	72.6	160.1	70,900
60	70.7	158.3	59,500
65	68.8	156.4	50,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	42,300
75	64.9	152.0	35,700
80	62.9	149.4	30,000
85	60.8	146.7	25,100
90	58.7	143.6	20,800
95	56.6	140.4	17,000
100	54.4	136.8	13,600
105	52.1	133.0	10,600
170 Ft. BOOM			
28	83.0	176.5	176,100 *
30	82.3	176.2	172,000 *
32	81.6	175.9	167,900 *
34	80.9	175.6	163,900 *
36	80.3	175.2	154,500 *
38	79.6	174.9	140,600
40	78.9	174.4	128,400
42	78.2	174.0	117,600
44	77.5	173.6	108,200
46	76.8	173.1	99,800
48	76.1	172.6	92,200
50	75.4	172.0	85,500
55	73.7	170.6	71,100
60	71.9	168.9	59,700
65	70.1	167.1	50,300
70	68.3	165.2	42,500
75	66.4	163.0	35,900
80	64.6	160.6	30,200
85	62.7	158.1	25,300
90	60.8	155.3	21,000
95	58.8	152.3	17,200
100	56.8	149.1	13,800
105	54.7	145.6	10,800



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
 ANSI B30.5
 Requirements**

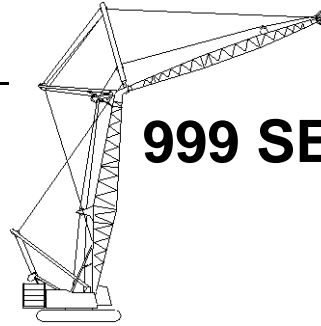
130 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	163,200 *
32	82.1	186.0	159,400 *
34	81.4	185.7	155,600 *
36	80.8	185.4	151,800 *
38	80.2	185.0	140,700
40	79.5	184.6	128,500
42	78.9	184.2	117,700
44	78.2	183.8	108,200
46	77.6	183.4	99,800
48	76.9	182.9	92,300
50	76.2	182.4	85,500
55	74.6	181.0	71,200
60	72.9	179.5	59,700
65	71.2	177.8	50,300
70	69.5	175.9	42,500
75	67.8	173.9	35,900
80	66.1	171.7	30,200
85	64.3	169.3	25,300
90	62.5	166.8	21,000
95	60.7	164.0	17,200
100	58.9	161.0	13,800
105	57.0	157.8	10,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	108,900
46	78.2	193.6	100,500
48	77.6	193.2	92,900
50	77.0	192.7	86,100
55	75.4	191.4	71,700
60	73.9	189.9	60,300
65	72.3	188.4	50,800
70	70.7	186.6	43,000
75	69.1	184.7	36,400
80	67.4	182.7	30,700
85	65.8	180.4	25,700
90	64.1	178.0	21,400
95	62.4	175.4	17,600
100	60.7	172.6	14,200
105	58.9	169.6	11,200



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

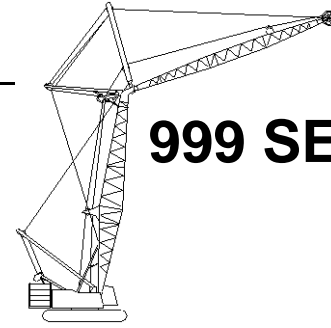
**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	387,900 *
17	82.0	77.1	363,800 *
18	81.1	76.9	342,200 *
19	80.3	76.7	322,600 *
20	79.5	76.5	304,800 *
22	77.8	76.0	273,700 *
24	76.1	75.5	247,400 *
26	74.4	74.9	224,900 *
28	72.7	74.2	205,300 *
30	70.9	73.5	188,300 *
32	69.2	72.7	173,200 *
34	67.4	71.8	157,900
36	65.6	70.9	141,900
38	63.7	69.8	128,200
40	61.9	68.7	116,300
42	60.0	67.5	105,900
44	58.0	66.2	96,700
46	56.0	64.8	88,500
48	54.0	63.4	81,200
50	51.9	61.7	74,600
80 Ft. BOOM			
17	83.0	87.2	364,400 *
18	82.3	87.0	342,800 *
19	81.5	86.9	323,300 *
20	80.8	86.7	305,600 *
22	79.3	86.3	274,500 *
24	77.9	85.8	248,300 *
26	76.4	85.3	225,800 *
28	74.9	84.7	206,400 *
30	73.4	84.1	189,400 *
32	71.9	83.4	174,300 *
34	70.4	82.7	160,400
36	68.8	81.9	144,300
38	67.3	81.0	130,500
40	65.7	80.0	118,500
42	64.1	79.0	108,100
44	62.4	78.0	98,800
46	60.8	76.8	90,600
48	59.1	75.6	83,300
50	57.4	74.3	76,700
55	52.9	70.6	62,700

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	276,200 *
24	81.2	116.4	250,100 *
26	80.2	116.1	227,800 *
28	79.1	115.7	208,400 *
30	78.0	115.2	191,500 *
32	77.0	114.7	176,600 *
34	75.9	114.2	163,300 *
36	74.8	113.6	148,800
38	73.7	113.0	134,900
40	72.6	112.4	122,900
42	71.5	111.7	112,300
44	70.4	110.9	103,000
46	69.3	110.2	94,700
48	68.2	109.3	87,300
50	67.0	108.5	80,600
55	64.1	106.1	66,500
60	61.2	103.4	55,200
65	58.1	100.3	46,000
70	55.0	96.8	38,300
75	51.7	93.0	31,800
120 Ft. BOOM			
22	82.9	126.9	276,400 *
24	82.0	126.6	250,400 *
26	81.0	126.2	228,100 *
28	80.0	125.9	208,800 *
30	79.1	125.5	191,900 *
32	78.1	125.0	177,000 *
34	77.1	124.5	163,700 *
36	76.1	124.0	149,800
38	75.1	123.5	135,800
40	74.1	122.9	123,700
42	73.1	122.2	113,100
44	72.1	121.6	103,800
46	71.1	120.9	95,500
48	70.1	120.1	88,100
50	69.1	119.3	81,400
55	66.5	117.2	67,300
60	63.8	114.7	56,000
65	61.1	112.0	46,700
70	58.3	109.0	39,000
75	55.4	105.6	32,500
80	52.4	101.8	26,900



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	244,100 *
26	81.7	136.4	228,400 *
28	80.8	136.0	209,100 *
30	79.9	135.7	192,300 *
32	79.0	135.3	177,400 *
34	78.1	134.8	164,100 *
36	77.2	134.3	150,600
38	76.3	133.8	136,700
40	75.4	133.3	124,600
42	74.5	132.7	114,000
44	73.5	132.1	104,600
46	72.6	131.5	96,300
48	71.7	130.8	88,900
50	70.7	130.1	82,200
55	68.4	128.1	68,000
60	66.0	125.9	56,700
65	63.5	123.4	47,500
70	61.0	120.7	39,700
75	58.4	117.6	33,200
80	55.8	114.3	27,600
85	53.0	110.6	22,700
140 Ft. BOOM			
26	82.3	146.5	226,400 *
28	81.5	146.2	209,200 *
30	80.6	145.8	192,300 *
32	79.8	145.5	177,500 *
34	79.0	145.1	164,300 *
36	78.1	144.6	151,200
38	77.3	144.1	137,300
40	76.4	143.6	125,100
42	75.6	143.1	114,500
44	74.7	142.5	105,200
46	73.9	141.9	96,800
48	73.0	141.3	89,400
50	72.2	140.7	82,700
55	70.0	138.9	68,500
60	67.8	136.8	57,200
65	65.5	134.6	47,900
70	63.3	132.1	40,200
75	60.9	129.3	33,600
80	58.5	126.3	28,000
85	56.1	123.0	23,200
90	53.5	119.3	18,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	202,800 *
28	82.0	156.3	197,200 *
30	81.3	156.0	191,700 *
32	80.5	155.6	177,200 *
34	79.7	155.3	164,000 *
36	78.9	154.8	151,800
38	78.2	154.4	137,700
40	77.4	153.9	125,600
42	76.6	153.5	114,900
44	75.8	152.9	105,500
46	75.0	152.4	97,200
48	74.2	151.8	89,700
50	73.4	151.2	83,000
55	71.4	149.5	68,800
60	69.4	147.6	57,400
65	67.3	145.6	48,100
70	65.2	143.3	40,400
75	63.0	140.8	33,800
80	60.9	138.0	28,200
85	58.6	135.0	23,300
90	56.3	131.7	19,000
95	54.0	128.1	15,200
100	51.6	124.2	11,900
160 Ft. BOOM			
28	82.5	166.4	188,700 *
30	81.8	166.1	183,600 *
32	81.1	165.8	177,100 *
34	80.4	165.4	163,900 *
36	79.6	165.1	152,100 *
38	78.9	164.6	138,000
40	78.2	164.2	125,800
42	77.4	163.7	115,200
44	76.7	163.3	105,800
46	76.0	162.7	97,400
48	75.2	162.2	89,900
50	74.5	161.6	83,200
55	72.6	160.1	69,000
60	70.7	158.3	57,600
65	68.8	156.4	48,300

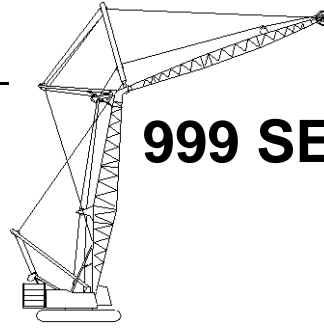
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	40,500
75	64.9	152.0	33,900
80	62.9	149.4	28,300
85	60.8	146.7	23,400
90	58.7	143.6	19,100
95	56.6	140.4	15,300
100	54.4	136.8	12,000
170 Ft. BOOM			
28	83.0	176.5	173,400 *
30	82.3	176.2	169,200 *
32	81.6	175.9	165,100 *
34	80.9	175.6	161,100 *
36	80.3	175.2	152,100 *
38	79.6	174.9	138,400
40	78.9	174.4	126,200
42	78.2	174.0	115,500
44	77.5	173.6	106,100
46	76.8	173.1	97,700
48	76.1	172.6	90,200
50	75.4	172.0	83,500
55	73.7	170.6	69,200
60	71.9	168.9	57,900
65	70.1	167.1	48,500
70	68.3	165.2	40,800
75	66.4	163.0	34,200
80	64.6	160.6	28,500
85	62.7	158.1	23,600
90	60.8	155.3	19,400
95	58.8	152.3	15,600
100	56.8	149.1	12,200



Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
ANSI B30.5
Requirements**

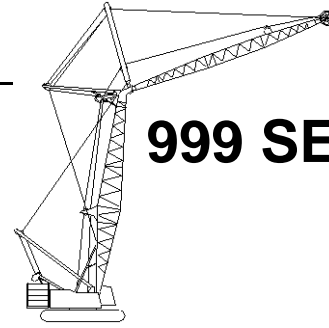


999 SERIES 2

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	160,500 *
32	82.1	186.0	156,600 *
34	81.4	185.7	152,800 *
36	80.8	185.4	149,100 *
38	80.2	185.0	138,600
40	79.5	184.6	126,300
42	78.9	184.2	115,600
44	78.2	183.8	106,200
46	77.6	183.4	97,800
48	76.9	182.9	90,300
50	76.2	182.4	83,600
55	74.6	181.0	69,300
60	72.9	179.5	57,900
65	71.2	177.8	48,600
70	69.5	175.9	40,800
75	67.8	173.9	34,200
80	66.1	171.7	28,500
85	64.3	169.3	23,600
90	62.5	166.8	19,300
95	60.7	164.0	15,600
100	58.9	161.0	12,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	116,400
44	78.8	194.0	106,900
46	78.2	193.6	98,500
48	77.6	193.2	91,000
50	77.0	192.7	84,200
55	75.4	191.4	69,900
60	73.9	189.9	58,500
65	72.3	188.4	49,100
70	70.7	186.6	41,300
75	69.1	184.7	34,700
80	67.4	182.7	29,000
85	65.8	180.4	24,100
90	64.1	178.0	19,800
95	62.4	175.4	16,000
100	60.7	172.6	12,700



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

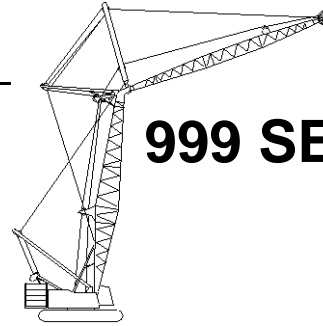
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	385,200 *
17	82.0	77.1	361,200 *
18	81.1	76.9	339,600 *
19	80.3	76.7	320,000 *
20	79.5	76.5	302,300 *
22	77.8	76.0	271,200 *
24	76.1	75.5	245,000 *
26	74.4	74.9	222,500 *
28	72.7	74.2	203,000 *
30	70.9	73.5	185,900 *
32	69.2	72.7	170,900 *
34	67.4	71.8	155,400 *
36	65.6	70.9	139,500 *
38	63.7	69.8	125,900 *
40	61.9	68.7	114,000 *
42	60.0	67.5	103,700 *
44	58.0	66.2	94,500 *
46	56.0	64.8	86,400 *
48	54.0	63.4	79,100 *
50	51.9	61.7	72,600 *
80 Ft. BOOM			
17	83.0	87.2	361,900 *
18	82.3	87.0	340,300 *
19	81.5	86.9	320,800 *
20	80.8	86.7	303,100 *
22	79.3	86.3	272,200 *
24	77.9	85.8	246,000 *
26	76.4	85.3	223,600 *
28	74.9	84.7	204,200 *
30	73.4	84.1	187,200 *
32	71.9	83.4	172,200 *
34	70.4	82.7	158,000 *
36	68.8	81.9	142,000 *
38	67.3	81.0	128,300 *
40	65.7	80.0	116,400 *
42	64.1	79.0	106,000 *
44	62.4	78.0	96,800 *
46	60.8	76.8	88,700 *
48	59.1	75.6	81,400 *
50	57.4	74.3	74,800 *
55	52.9	70.6	60,900 *

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	274,100 *
24	81.2	116.4	248,100 *
26	80.2	116.1	225,800 *
28	79.1	115.7	206,500 *
30	78.0	115.2	189,600 *
32	77.0	114.7	174,700 *
34	75.9	114.2	161,500 *
36	74.8	113.6	146,900 *
38	73.7	113.0	133,100 *
40	72.6	112.4	121,100 *
42	71.5	111.7	110,600 *
44	70.4	110.9	101,300 *
46	69.3	110.2	93,100 *
48	68.2	109.3	85,700 *
50	67.0	108.5	79,100 *
55	64.1	106.1	65,000 *
60	61.2	103.4	53,800 *
65	58.1	100.3	44,600 *
70	55.0	96.8	37,000 *
75	51.7	93.0	30,500 *
120 Ft. BOOM			
22	82.9	126.9	274,400 *
24	82.0	126.6	248,400 *
26	81.0	126.2	226,200 *
28	80.0	125.9	206,900 *
30	79.1	125.5	190,000 *
32	78.1	125.0	175,200 *
34	77.1	124.5	161,900 *
36	76.1	124.0	147,900 *
38	75.1	123.5	134,000 *
40	74.1	122.9	122,000 *
42	73.1	122.2	111,500 *
44	72.1	121.6	102,200 *
46	71.1	120.9	93,900 *
48	70.1	120.1	86,600 *
50	69.1	119.3	79,900 *
55	66.5	117.2	65,900 *
60	63.8	114.7	54,600 *
65	61.1	112.0	45,400 *
70	58.3	109.0	37,700 *
75	55.4	105.6	31,200 *
80	52.4	101.8	25,700 *



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

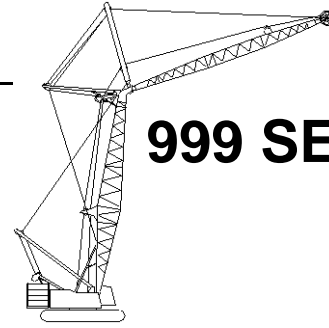
**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	242,200 *
26	81.7	136.4	226,600 *
28	80.8	136.0	207,300 *
30	79.9	135.7	190,500 *
32	79.0	135.3	175,600 *
34	78.1	134.8	162,400 *
36	77.2	134.3	148,900
38	76.3	133.8	135,000
40	75.4	133.3	122,900
42	74.5	132.7	112,400
44	73.5	132.1	103,100
46	72.6	131.5	94,800
48	71.7	130.8	87,400
50	70.7	130.1	80,700
55	68.4	128.1	66,700
60	66.0	125.9	55,400
65	63.5	123.4	46,200
70	61.0	120.7	38,500
75	58.4	117.6	32,000
80	55.8	114.3	26,400
85	53.0	110.6	21,600
140 Ft. BOOM			
26	82.3	146.5	224,400 *
28	81.5	146.2	207,400 *
30	80.6	145.8	190,600 *
32	79.8	145.5	175,800 *
34	79.0	145.1	162,600 *
36	78.1	144.6	149,500
38	77.3	144.1	135,600
40	76.4	143.6	123,500
42	75.6	143.1	113,000
44	74.7	142.5	103,700
46	73.9	141.9	95,400
48	73.0	141.3	88,000
50	72.2	140.7	81,300
55	70.0	138.9	67,200
60	67.8	136.8	55,900
65	65.5	134.6	46,700
70	63.3	132.1	39,000
75	60.9	129.3	32,500
80	58.5	126.3	26,900
85	56.1	123.0	22,100
90	53.5	119.3	17,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	201,000 *
28	82.0	156.3	195,400 *
30	81.3	156.0	189,900 *
32	80.5	155.6	175,600 *
34	79.7	155.3	162,400 *
36	78.9	154.8	150,100
38	78.2	154.4	136,100
40	77.4	153.9	124,000
42	76.6	153.5	113,400
44	75.8	152.9	104,100
46	75.0	152.4	95,800
48	74.2	151.8	88,300
50	73.4	151.2	81,600
55	71.4	149.5	67,500
60	69.4	147.6	56,200
65	67.3	145.6	46,900
70	65.2	143.3	39,200
75	63.0	140.8	32,700
80	60.9	138.0	27,100
85	58.6	135.0	22,200
90	56.3	131.7	18,000
95	54.0	128.1	14,200
100	51.6	124.2	10,900
160 Ft. BOOM			
28	82.5	166.4	186,900 *
30	81.8	166.1	181,700 *
32	81.1	165.8	175,500 *
34	80.4	165.4	162,300 *
36	79.6	165.1	150,500
38	78.9	164.6	136,500
40	78.2	164.2	124,300
42	77.4	163.7	113,700
44	76.7	163.3	104,400
46	76.0	162.7	96,000
48	75.2	162.2	88,600
50	74.5	161.6	81,900
55	72.6	160.1	67,700
60	70.7	158.3	56,400
65	68.8	156.4	47,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	39,400
75	64.9	152.0	32,900
80	62.9	149.4	27,300
85	60.8	146.7	22,400
90	58.7	143.6	18,100
95	56.6	140.4	14,400
100	54.4	136.8	11,000
170 Ft. BOOM			
28	83.0	176.5	171,600 *
30	82.3	176.2	167,500 *
32	81.6	175.9	163,400 *
34	80.9	175.6	159,300 *
36	80.3	175.2	150,600 *
38	79.6	174.9	136,900
40	78.9	174.4	124,700
42	78.2	174.0	114,100
44	77.5	173.6	104,700
46	76.8	173.1	96,400
48	76.1	172.6	88,900
50	75.4	172.0	82,200
55	73.7	170.6	68,000
60	71.9	168.9	56,700
65	70.1	167.1	47,400
70	68.3	165.2	39,700
75	66.4	163.0	33,100
80	64.6	160.6	27,500
85	62.7	158.1	22,700
90	60.8	155.3	18,400
95	58.8	152.3	14,600
100	56.8	149.1	11,300



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
 ANSI B30.5
 Requirements**

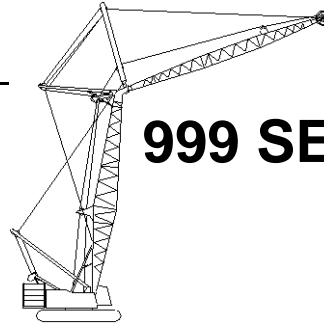
150 Ft. Luffing Jib, Attached At 168 Degree Boom To Luffing Jib Angle

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	158,700 *
32	82.1	186.0	154,900 *
34	81.4	185.7	151,000 *
36	80.8	185.4	147,300 *
38	80.2	185.0	137,100
40	79.5	184.6	124,900
42	78.9	184.2	114,300
44	78.2	183.8	104,900
46	77.6	183.4	96,500
48	76.9	182.9	89,100
50	76.2	182.4	82,300
55	74.6	181.0	68,100
60	72.9	179.5	56,800
65	71.2	177.8	47,500
70	69.5	175.9	39,700
75	67.8	173.9	33,200
80	66.1	171.7	27,600
85	64.3	169.3	22,700
90	62.5	166.8	18,400
95	60.7	164.0	14,700
100	58.9	161.0	11,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	115,000
44	78.8	194.0	105,600
46	78.2	193.6	97,300
48	77.6	193.2	89,800
50	77.0	192.7	83,000
55	75.4	191.4	68,800
60	73.9	189.9	57,400
65	72.3	188.4	48,100
70	70.7	186.6	40,300
75	69.1	184.7	33,700
80	67.4	182.7	28,100
85	65.8	180.4	23,200
90	64.1	178.0	18,900
95	62.4	175.4	15,100
100	60.7	172.6	11,800



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

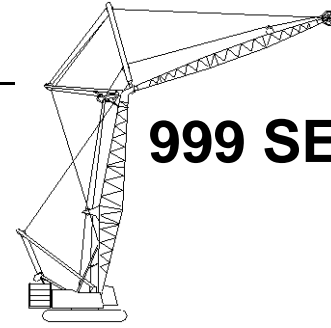
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	381,400 *
17	82.0	77.1	357,400 *
18	81.1	76.9	335,800 *
19	80.3	76.7	316,300 *
20	79.5	76.5	298,500 *
22	77.8	76.0	267,500 *
24	76.1	75.5	241,300 *
26	74.4	74.9	218,800 *
28	72.7	74.2	199,400 *
30	70.9	73.5	182,300 *
32	69.2	72.7	167,300 *
34	67.4	71.8	151,800 *
36	65.6	70.9	136,000
38	63.7	69.8	122,400
40	61.9	68.7	110,700
42	60.0	67.5	100,400
44	58.0	66.2	91,300
46	56.0	64.8	83,200
48	54.0	63.4	76,000
50	51.9	61.7	69,500
80 Ft. BOOM			
17	83.0	87.2	358,200 *
18	82.3	87.0	336,700 *
19	81.5	86.9	317,200 *
20	80.8	86.7	299,600 *
22	79.3	86.3	268,700 *
24	77.9	85.8	242,500 *
26	76.4	85.3	220,100 *
28	74.9	84.7	200,700 *
30	73.4	84.1	183,800 *
32	71.9	83.4	168,800 *
34	70.4	82.7	154,700
36	68.8	81.9	138,700
38	67.3	81.0	125,100
40	65.7	80.0	113,300
42	64.1	79.0	102,900
44	62.4	78.0	93,800
46	60.8	76.8	85,700
48	59.1	75.6	78,400
50	57.4	74.3	71,900
55	52.9	70.6	58,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	318,100 *
20	81.8	96.8	300,500 *
22	80.5	96.5	269,700 *
24	79.2	96.1	243,600 *
26	77.9	95.6	221,300 *
28	76.6	95.1	201,900 *
30	75.3	94.6	185,000 *
32	74.0	94.0	170,100 *
34	72.6	93.3	156,800 *
36	71.3	92.6	141,000
38	69.9	91.8	127,300
40	68.6	91.0	115,400
42	67.2	90.1	105,000
44	65.8	89.2	95,800
46	64.3	88.2	87,700
48	62.9	87.2	80,400
50	61.4	86.0	73,800
55	57.7	82.9	60,000
60	53.8	79.3	48,900
100 Ft. BOOM			
20	82.7	107.0	301,400 *
22	81.5	106.6	270,600 *
24	80.3	106.3	244,600 *
26	79.2	105.9	222,300 *
28	78.0	105.4	203,000 *
30	76.8	104.9	186,200 *
32	75.6	104.4	171,300 *
34	74.4	103.8	158,100 *
36	73.2	103.2	142,800
38	72.0	102.5	129,000
40	70.8	101.8	117,100
42	69.6	101.0	106,700
44	68.3	100.2	97,500
46	67.1	99.3	89,400
48	65.8	98.4	82,100
50	64.6	97.4	75,500
55	61.3	94.7	61,600
60	57.9	91.6	50,500
65	54.4	88.1	41,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	270,900 *
24	81.2	116.4	245,000 *
26	80.2	116.1	222,700 *
28	79.1	115.7	203,500 *
30	78.0	115.2	186,600 *
32	77.0	114.7	171,800 *
34	75.9	114.2	158,600 *
36	74.8	113.6	144,100
38	73.7	113.0	130,300
40	72.6	112.4	118,400
42	71.5	111.7	107,900
44	70.4	110.9	98,700
46	69.3	110.2	90,500
48	68.2	109.3	83,200
50	67.0	108.5	76,600
55	64.1	106.1	62,600
60	61.2	103.4	51,500
65	58.1	100.3	42,400
70	55.0	96.8	34,700
75	51.7	93.0	28,300
120 Ft. BOOM			
22	82.9	126.9	271,300 *
24	82.0	126.6	245,400 *
26	81.0	126.2	223,200 *
28	80.0	125.9	204,000 *
30	79.1	125.5	187,100 *
32	78.1	125.0	172,300 *
34	77.1	124.5	159,100 *
36	76.1	124.0	145,200
38	75.1	123.5	131,400
40	74.1	122.9	119,400
42	73.1	122.2	109,000
44	72.1	121.6	99,700
46	71.1	120.9	91,500
48	70.1	120.1	84,200
50	69.1	119.3	77,500
55	66.5	117.2	63,600
60	63.8	114.7	52,400
65	61.1	112.0	43,200
70	58.3	109.0	35,600
75	55.4	105.6	29,100
80	52.4	101.8	23,600



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	239,100 *
26	81.7	136.4	223,700 *
28	80.8	136.0	204,500 *
30	79.9	135.7	187,700 *
32	79.0	135.3	172,900 *
34	78.1	134.8	159,700 *
36	77.2	134.3	146,200
38	76.3	133.8	132,400
40	75.4	133.3	120,400
42	74.5	132.7	109,900
44	73.5	132.1	100,700
46	72.6	131.5	92,400
48	71.7	130.8	85,100
50	70.7	130.1	78,400
55	68.4	128.1	64,500
60	66.0	125.9	53,300
65	63.5	123.4	44,100
70	61.0	120.7	36,500
75	58.4	117.6	30,000
80	55.8	114.3	24,400
85	53.0	110.6	19,600
140 Ft. BOOM			
26	82.3	146.5	221,300 *
28	81.5	146.2	204,600 *
30	80.6	145.8	187,900 *
32	79.8	145.5	173,100 *
34	79.0	145.1	159,900 *
36	78.1	144.6	147,000
38	77.3	144.1	133,100
40	76.4	143.6	121,100
42	75.6	143.1	110,600
44	74.7	142.5	101,300
46	73.9	141.9	93,100
48	73.0	141.3	85,700
50	72.2	140.7	79,100
55	70.0	138.9	65,100
60	67.8	136.8	53,900
65	65.5	134.6	44,700
70	63.3	132.1	37,000
75	60.9	129.3	30,600
80	58.5	126.3	25,000
85	56.1	123.0	20,200
90	53.5	119.3	16,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	198,000 *
28	82.0	156.3	192,400 *
30	81.3	156.0	186,900 *
32	80.5	155.6	172,900 *
34	79.7	155.3	159,800 *
36	78.9	154.8	147,600
38	78.2	154.4	133,700
40	77.4	153.9	121,600
42	76.6	153.5	111,100
44	75.8	152.9	101,800
46	75.0	152.4	93,500
48	74.2	151.8	86,100
50	73.4	151.2	79,500
55	71.4	149.5	65,400
60	69.4	147.6	54,200
65	67.3	145.6	45,000
70	65.2	143.3	37,300
75	63.0	140.8	30,800
80	60.9	138.0	25,200
85	58.6	135.0	20,400
90	56.3	131.7	16,200
95	54.0	128.1	12,400
160 Ft. BOOM			
28	82.5	166.4	183,900 *
30	81.8	166.1	178,700 *
32	81.1	165.8	172,900 *
34	80.4	165.4	159,700 *
36	79.6	165.1	148,000 *
38	78.9	164.6	134,100
40	78.2	164.2	122,000
42	77.4	163.7	111,500
44	76.7	163.3	102,200
46	76.0	162.7	93,900
48	75.2	162.2	86,500
50	74.5	161.6	79,800
55	72.6	160.1	65,700

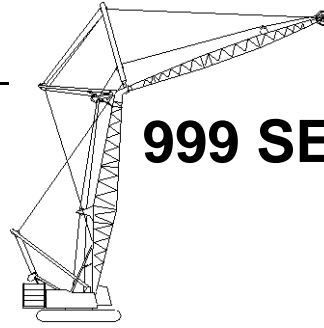
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
60	70.7	158.3	54,400
65	68.8	156.4	45,200
70	66.8	154.3	37,500
75	64.9	152.0	31,000
80	62.9	149.4	25,400
85	60.8	146.7	20,600
90	58.7	143.6	16,400
95	56.6	140.4	12,600
170 Ft. BOOM			
28	83.0	176.5	168,800 *
30	82.3	176.2	164,600 *
32	81.6	175.9	160,500 *
34	80.9	175.6	156,500 *
36	80.3	175.2	148,100 *
38	79.6	174.9	134,500
40	78.9	174.4	122,500
42	78.2	174.0	111,900
44	77.5	173.6	102,600
46	76.8	173.1	94,300
48	76.1	172.6	86,800
50	75.4	172.0	80,200
55	73.7	170.6	66,100
60	71.9	168.9	54,800
65	70.1	167.1	45,600
70	68.3	165.2	37,900
75	66.4	163.0	31,300
80	64.6	160.6	25,800
85	62.7	158.1	20,900
90	60.8	155.3	16,700
95	58.8	152.3	12,900



Liftcrane Boom Capacities With Luffing Jib Attached

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

**Meets
ANSI B30.5
Requirements**

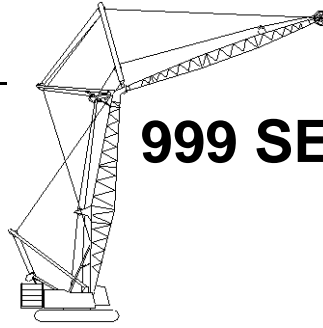


999 SERIES 2

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	155,800 *
32	82.1	186.0	152,000 *
34	81.4	185.7	148,200 *
36	80.8	185.4	144,400 *
38	80.2	185.0	134,800
40	79.5	184.6	122,700
42	78.9	184.2	112,100
44	78.2	183.8	102,800
46	77.6	183.4	94,400
48	76.9	182.9	87,000
50	76.2	182.4	80,300
55	74.6	181.0	66,200
60	72.9	179.5	54,900
65	71.2	177.8	45,700
70	69.5	175.9	37,900
75	67.8	173.9	31,400
80	66.1	171.7	25,800
85	64.3	169.3	21,000
90	62.5	166.8	16,700
95	60.7	164.0	13,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	112,900
44	78.8	194.0	103,500
46	78.2	193.6	95,200
48	77.6	193.2	87,800
50	77.0	192.7	81,000
55	75.4	191.4	66,900
60	73.9	189.9	55,600
65	72.3	188.4	46,300
70	70.7	186.6	38,500
75	69.1	184.7	32,000
80	67.4	182.7	26,400
85	65.8	180.4	21,500
90	64.1	178.0	17,300
95	62.4	175.4	13,500
100	60.7	172.6	10,200



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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

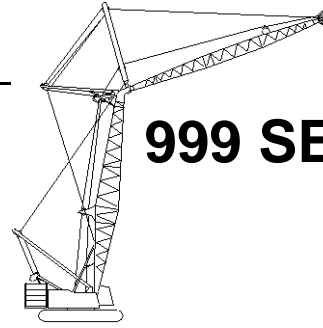
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
70 Ft. BOOM			
16	82.8	77.2	377,800 *
17	82.0	77.1	353,800 *
18	81.1	76.9	332,300 *
19	80.3	76.7	312,800 *
20	79.5	76.5	295,100 *
22	77.8	76.0	264,100 *
24	76.1	75.5	237,900 *
26	74.4	74.9	215,500 *
28	72.7	74.2	196,100 *
30	70.9	73.5	179,100 *
32	69.2	72.7	164,100 *
34	67.4	71.8	148,400
36	65.6	70.9	132,700
38	63.7	69.8	119,200
40	61.9	68.7	107,600
42	60.0	67.5	97,300
44	58.0	66.2	88,300
46	56.0	64.8	80,300
48	54.0	63.4	73,100
50	51.9	61.7	66,600
80 Ft. BOOM			
17	83.0	87.2	354,800 *
18	82.3	87.0	333,300 *
19	81.5	86.9	313,900 *
20	80.8	86.7	296,300 *
22	79.3	86.3	265,400 *
24	77.9	85.8	239,300 *
26	76.4	85.3	217,000 *
28	74.9	84.7	197,600 *
30	73.4	84.1	180,700 *
32	71.9	83.4	165,800 *
34	70.4	82.7	151,500
36	68.8	81.9	135,700
38	67.3	81.0	122,100
40	65.7	80.0	110,400
42	64.1	79.0	100,100
44	62.4	78.0	91,000
46	60.8	76.8	83,000
48	59.1	75.6	75,800
50	57.4	74.3	69,300
55	52.9	70.6	55,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	314,900 *
20	81.8	96.8	297,300 *
22	80.5	96.5	266,600 *
24	79.2	96.1	240,500 *
26	77.9	95.6	218,300 *
28	76.6	95.1	199,000 *
30	75.3	94.6	182,100 *
32	74.0	94.0	167,200 *
34	72.6	93.3	154,000
36	71.3	92.6	138,100
38	69.9	91.8	124,500
40	68.6	91.0	112,700
42	67.2	90.1	102,300
44	65.8	89.2	93,200
46	64.3	88.2	85,100
48	62.9	87.2	77,900
50	61.4	86.0	71,400
55	57.7	82.9	57,600
60	53.8	79.3	46,600
100 Ft. BOOM			
20	82.7	107.0	298,300 *
22	81.5	106.6	267,600 *
24	80.3	106.3	241,700 *
26	79.2	105.9	219,500 *
28	78.0	105.4	200,200 *
30	76.8	104.9	183,400 *
32	75.6	104.4	168,500 *
34	74.4	103.8	155,400 *
36	73.2	103.2	140,000
38	72.0	102.5	126,400
40	70.8	101.8	114,600
42	69.6	101.0	104,200
44	68.3	100.2	95,100
46	67.1	99.3	87,000
48	65.8	98.4	79,700
50	64.6	97.4	73,200
55	61.3	94.7	59,400
60	57.9	91.6	48,300
65	54.4	88.1	39,300

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	268,000 *
24	81.2	116.4	242,100 *
26	80.2	116.1	220,000 *
28	79.1	115.7	200,800 *
30	78.0	115.2	184,000 *
32	77.0	114.7	169,100 *
34	75.9	114.2	156,000 *
36	74.8	113.6	141,500
38	73.7	113.0	127,800
40	72.6	112.4	115,900
42	71.5	111.7	105,500
44	70.4	110.9	96,400
46	69.3	110.2	88,200
48	68.2	109.3	80,900
50	67.0	108.5	74,400
55	64.1	106.1	60,500
60	61.2	103.4	49,400
65	58.1	100.3	40,300
70	55.0	96.8	32,800
75	51.7	93.0	26,400
120 Ft. BOOM			
22	82.9	126.9	268,500 *
24	82.0	126.6	242,600 *
26	81.0	126.2	220,500 *
28	80.0	125.9	201,300 *
30	79.1	125.5	184,500 *
32	78.1	125.0	169,700 *
34	77.1	124.5	156,600 *
36	76.1	124.0	142,700
38	75.1	123.5	128,900
40	74.1	122.9	117,000
42	73.1	122.2	106,600
44	72.1	121.6	97,500
46	71.1	120.9	89,300
48	70.1	120.1	82,000
50	69.1	119.3	75,400
55	66.5	117.2	61,500
60	63.8	114.7	50,400
65	61.1	112.0	41,300
70	58.3	109.0	33,700
75	55.4	105.6	27,300
80	52.4	101.8	21,800



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

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

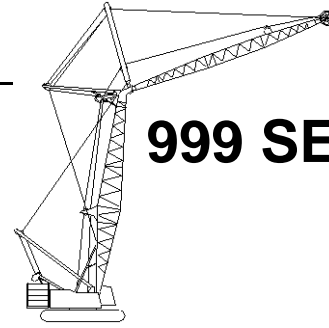
**Meets
ANSI B30.5
Requirements**

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	236,300 *
26	81.7	136.4	221,000 *
28	80.8	136.0	201,900 *
30	79.9	135.7	185,100 *
32	79.0	135.3	170,400 *
34	78.1	134.8	157,200 *
36	77.2	134.3	143,800
38	76.3	133.8	130,000
40	75.4	133.3	118,100
42	74.5	132.7	107,700
44	73.5	132.1	98,500
46	72.6	131.5	90,300
48	71.7	130.8	83,000
50	70.7	130.1	76,400
55	68.4	128.1	62,500
60	66.0	125.9	51,400
65	63.5	123.4	42,300
70	61.0	120.7	34,700
75	58.4	117.6	28,200
80	55.8	114.3	22,700
85	53.0	110.6	17,900
140 Ft. BOOM			
26	82.3	146.5	218,500 *
28	81.5	146.2	202,100 *
30	80.6	145.8	185,400 *
32	79.8	145.5	170,700 *
34	79.0	145.1	157,600 *
36	78.1	144.6	144,600
38	77.3	144.1	130,800
40	76.4	143.6	118,900
42	75.6	143.1	108,400
44	74.7	142.5	99,200
46	73.9	141.9	91,000
48	73.0	141.3	83,700
50	72.2	140.7	77,100
55	70.0	138.9	63,200
60	67.8	136.8	52,000
65	65.5	134.6	42,900
70	63.3	132.1	35,300
75	60.9	129.3	28,900
80	58.5	126.3	23,300
85	56.1	123.0	18,600
90	53.5	119.3	14,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	195,400 *
28	82.0	156.3	189,800 *
30	81.3	156.0	184,200 *
32	80.5	155.6	170,600 *
34	79.7	155.3	157,500 *
36	78.9	154.8	145,300
38	78.2	154.4	131,500
40	77.4	153.9	119,500
42	76.6	153.5	109,000
44	75.8	152.9	99,800
46	75.0	152.4	91,500
48	74.2	151.8	84,200
50	73.4	151.2	77,600
55	71.4	149.5	63,600
60	69.4	147.6	52,400
65	67.3	145.6	43,200
70	65.2	143.3	35,600
75	63.0	140.8	29,200
80	60.9	138.0	23,600
85	58.6	135.0	18,800
90	56.3	131.7	14,600
95	54.0	128.1	10,900
160 Ft. BOOM			
28	82.5	166.4	181,200 *
30	81.8	166.1	176,000 *
32	81.1	165.8	170,500 *
34	80.4	165.4	157,500 *
36	79.6	165.1	145,800 *
38	78.9	164.6	131,900
40	78.2	164.2	119,900
42	77.4	163.7	109,400
44	76.7	163.3	100,200
46	76.0	162.7	91,900
48	75.2	162.2	84,600
50	74.5	161.6	77,900
55	72.6	160.1	63,900
60	70.7	158.3	52,700

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
65	68.8	156.4	43,500
70	66.8	154.3	35,900
75	64.9	152.0	29,400
80	62.9	149.4	23,900
85	60.8	146.7	19,100
90	58.7	143.6	14,900
95	56.6	140.4	11,200
170 Ft. BOOM			
28	83.0	176.5	166,300 *
30	82.3	176.2	162,100 *
32	81.6	175.9	158,000 *
34	80.9	175.6	153,900 *
36	80.3	175.2	145,900 *
38	79.6	174.9	132,400
40	78.9	174.4	120,400
42	78.2	174.0	109,900
44	77.5	173.6	100,600
46	76.8	173.1	92,400
48	76.1	172.6	85,000
50	75.4	172.0	78,300
55	73.7	170.6	64,300
60	71.9	168.9	53,100
65	70.1	167.1	43,900
70	68.3	165.2	36,300
75	66.4	163.0	29,800
80	64.6	160.6	24,200
85	62.7	158.1	19,400
90	60.8	155.3	15,200
95	58.8	152.3	11,500



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

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

**Meets
ANSI B30.5
Requirements**

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
180 Ft. BOOM			
30	82.7	186.3	153,300 *
32	82.1	186.0	149,400 *
34	81.4	185.7	145,600 *
36	80.8	185.4	141,800 *
38	80.2	185.0	132,700
40	79.5	184.6	120,700
42	78.9	184.2	110,100
44	78.2	183.8	100,800
46	77.6	183.4	92,600
48	76.9	182.9	85,200
50	76.2	182.4	78,500
55	74.6	181.0	64,500
60	72.9	179.5	53,300
65	71.2	177.8	44,100
70	69.5	175.9	36,400
75	67.8	173.9	29,900
80	66.1	171.7	24,400
85	64.3	169.3	19,500
90	62.5	166.8	15,300
95	60.7	164.0	11,600

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	111,000
44	78.8	194.0	101,700
46	78.2	193.6	93,400
48	77.6	193.2	86,000
50	77.0	192.7	79,300
55	75.4	191.4	65,200
60	73.9	189.9	53,900
65	72.3	188.4	44,700
70	70.7	186.6	37,000
75	69.1	184.7	30,500
80	67.4	182.7	25,000
85	65.8	180.4	20,100
90	64.1	178.0	15,900
95	62.4	175.4	12,100