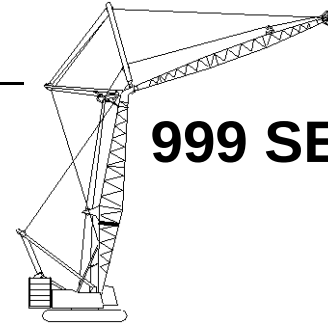


Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. 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**.

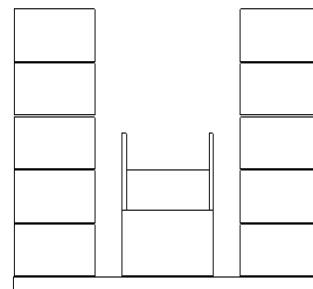
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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, 219,600 Lb. crane counterweight, two 22,000 Lb. and two 18,000 Lb. carbody counterweights.

Consult Chart **No. 8237-A** for main luffing jib capacities. Consult Chart **No. 8584-A** for intermediate fall capacities.

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



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

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.

Luffing Jib Position During Operation

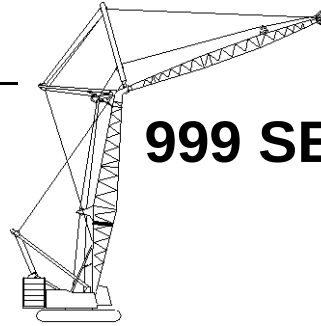
Luffing Jib Length - Feet	Boom To Luffing Jib Angle
70	140 Degrees
80 - 90	150 Degrees
100 - 120	160 Degrees
130 - 170	168 Degrees



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	385,300 *
18	81.1	76.9	382,100 *
19	80.3	76.7	378,800 *
20	79.5	76.5	369,700 *
22	77.8	76.0	335,900 *
24	76.1	75.5	307,300 *
26	74.4	74.9	282,700 *
28	72.7	74.2	261,400 *
30	70.9	73.5	242,800 *
80 Ft. BOOM			
17	83.0	87.2	371,200 *
18	82.3	87.0	366,700 *
19	81.5	86.9	362,300 *
20	80.8	86.7	358,300 *
22	79.3	86.3	335,600 *
24	77.9	85.8	307,000 *
26	76.4	85.3	282,400 *
28	74.9	84.7	261,200 *
30	73.4	84.1	242,600 *
32	71.9	83.4	226,200 *
34	70.4	82.7	211,600 *
90 Ft. BOOM			
19	82.5	97.0	332,300 *
20	81.8	96.8	328,800 *
22	80.5	96.5	321,300 *
24	79.2	96.1	306,500 *
26	77.9	95.6	282,000 *
28	76.6	95.1	260,700 *
30	75.3	94.6	242,200 *
32	74.0	94.0	225,800 *
34	72.6	93.3	211,200 *
36	71.3	92.6	194,900 *

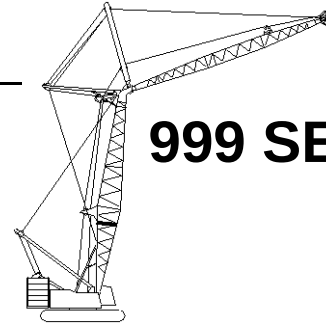
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	318,000 *
22	81.5	106.6	311,100 *
24	80.3	106.3	304,900 *
26	79.2	105.9	282,400 *
28	78.0	105.4	261,200 *
30	76.8	104.9	242,600 *
32	75.6	104.4	226,200 *
34	74.4	103.8	211,600 *
36	73.2	103.2	195,700 *
38	72.0	102.5	179,200 *
40	70.8	101.8	164,800 *
110 Ft. BOOM			
22	82.3	116.8	289,700 *
24	81.2	116.4	283,900 *
26	80.2	116.1	278,100 *
28	79.1	115.7	260,500 *
30	78.0	115.2	242,000 *
32	77.0	114.7	225,600 *
34	75.9	114.2	211,000 *
36	74.8	113.6	195,800 *
38	73.7	113.0	179,300 *
40	72.6	112.4	164,900 *
42	71.5	111.7	152,300 *
44	70.4	110.9	141,200 *
120 Ft. BOOM			
22	82.9	126.9	281,200 *
24	82.0	126.6	275,800 *
26	81.0	126.2	270,600 *
28	80.0	125.9	260,700 *
30	79.1	125.5	242,100 *
32	78.1	125.0	225,700 *
34	77.1	124.5	211,200 *
36	76.1	124.0	196,300 *
38	75.1	123.5	179,700 *
40	74.1	122.9	165,300 *
42	73.1	122.2	152,700 *
44	72.1	121.6	141,600 *
46	71.1	120.9	131,700 *
48	70.1	120.1	122,900 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
130 Ft. BOOM			
24	82.6	136.7	253,500 *
26	81.7	136.4	246,300 *
28	80.8	136.0	239,300 *
30	79.9	135.7	232,600 *
32	79.0	135.3	225,400 *
34	78.1	134.8	210,800 *
36	77.2	134.3	196,500 *
38	76.3	133.8	179,800 *
40	75.4	133.3	165,400 *
42	74.5	132.7	152,800 *
44	73.5	132.1	141,700 *
46	72.6	131.5	131,800 *
48	71.7	130.8	122,900 *
50	70.7	130.1	114,900 *
140 Ft. BOOM			
26	82.3	146.5	239,900 *
28	81.5	146.2	233,000 *
30	80.6	145.8	226,400 *
32	79.8	145.5	220,100 *
34	79.0	145.1	210,900 *
36	78.1	144.6	196,800 *
38	77.3	144.1	180,100 *
40	76.4	143.6	165,700 *
42	75.6	143.1	153,000 *
44	74.7	142.5	141,900 *
46	73.9	141.9	132,000 *
48	73.0	141.3	123,100 *
50	72.2	140.7	115,200 *
150 Ft. BOOM			
26	82.8	156.6	215,700 *
28	82.0	156.3	210,100 *
30	81.3	156.0	204,700 *
32	80.5	155.6	199,600 *
34	79.7	155.3	194,500 *
36	78.9	154.8	189,500 *
38	78.2	154.4	180,000 *
40	77.4	153.9	165,500 *
42	76.6	153.5	152,900 *
44	75.8	152.9	141,700 *
46	75.0	152.4	131,800 *
48	74.2	151.8	122,900 *
50	73.4	151.2	114,900 *
55	71.4	149.5	98,000 *

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
28	82.5	166.4	201,700 *
30	81.8	166.1	196,500 *
32	81.1	165.8	191,500 *
34	80.4	165.4	186,600 *
36	79.6	165.1	181,700 *
38	78.9	164.6	177,100 *
40	78.2	164.2	165,600
42	77.4	163.7	152,900
44	76.7	163.3	141,800
46	76.0	162.7	131,800
48	75.2	162.2	122,900
50	74.5	161.6	114,900
55	72.6	160.1	98,000
60	70.7	158.3	84,500
170 Ft. BOOM			
28	83.0	176.5	187,900 *
30	82.3	176.2	183,600 *
32	81.6	175.9	179,400 *
34	80.9	175.6	175,300 *
36	80.3	175.2	171,200 *
38	79.6	174.9	167,200 *
40	78.9	174.4	163,400 *
42	78.2	174.0	152,900
44	77.5	173.6	141,700
46	76.8	173.1	131,700
48	76.1	172.6	122,800
50	75.4	172.0	114,800
55	73.7	170.6	97,800
60	71.9	168.9	84,300
65	70.1	167.1	73,200

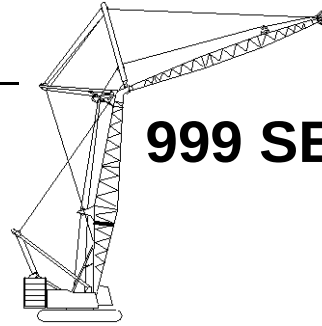
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	174,900 *
32	82.1	186.0	170,800 *
34	81.4	185.7	166,900 *
36	80.8	185.4	162,900 *
38	80.2	185.0	159,100 *
40	79.5	184.6	155,400 *
42	78.9	184.2	151,700 *
44	78.2	183.8	141,600
46	77.6	183.4	131,600
48	76.9	182.9	122,700
50	76.2	182.4	114,700
55	74.6	181.0	97,800
60	72.9	179.5	84,200
65	71.2	177.8	73,100
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	118,000 *
50	77.0	192.7	115,100
55	75.4	191.4	98,200
60	73.9	189.9	84,600
65	72.3	188.4	73,400
70	70.7	186.6	64,200



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	384,600 *
18	81.1	76.9	381,600 *
19	80.3	76.7	378,200 *
20	79.5	76.5	369,500 *
22	77.8	76.0	335,400 *
24	76.1	75.5	306,600 *
26	74.4	74.9	282,000 *
28	72.7	74.2	260,600 *
30	70.9	73.5	241,900 *
32	69.2	72.7	225,400 *
34	67.4	71.8	210,700 *
36	65.6	70.9	192,400
80 Ft. BOOM			
17	83.0	87.2	371,100 *
18	82.3	87.0	366,500 *
19	81.5	86.9	362,100 *
20	80.8	86.7	358,000 *
22	79.3	86.3	335,200 *
24	77.9	85.8	306,500 *
26	76.4	85.3	281,900 *
28	74.9	84.7	260,500 *
30	73.4	84.1	241,800 *
32	71.9	83.4	225,300 *
34	70.4	82.7	210,700 *
36	68.8	81.9	193,300
38	67.3	81.0	176,800
40	65.7	80.0	162,400
42	64.1	79.0	149,900
90 Ft. BOOM			
19	82.5	97.0	332,000 *
20	81.8	96.8	328,500 *
22	80.5	96.5	320,900 *
24	79.2	96.1	306,100 *
26	77.9	95.6	281,500 *
28	76.6	95.1	260,200 *
30	75.3	94.6	241,500 *
32	74.0	94.0	225,000 *
34	72.6	93.3	210,400 *
36	71.3	92.6	193,900
38	69.9	91.8	177,300
40	68.6	91.0	162,900
42	67.2	90.1	150,300
44	65.8	89.2	139,200
46	64.3	88.2	129,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	317,700 *
22	81.5	106.6	310,700 *
24	80.3	106.3	304,400 *
26	79.2	105.9	282,000 *
28	78.0	105.4	260,700 *
30	76.8	104.9	242,000 *
32	75.6	104.4	225,600 *
34	74.4	103.8	210,900 *
36	73.2	103.2	194,900
38	72.0	102.5	178,300
40	70.8	101.8	163,900
42	69.6	101.0	151,300
44	68.3	100.2	140,100
46	67.1	99.3	130,200
48	65.8	98.4	121,400
50	64.6	97.4	113,400
110 Ft. BOOM			
22	82.3	116.8	289,400 *
24	81.2	116.4	283,500 *
26	80.2	116.1	277,600 *
28	79.1	115.7	260,100 *
30	78.0	115.2	241,500 *
32	77.0	114.7	225,000 *
34	75.9	114.2	210,400 *
36	74.8	113.6	195,100
38	73.7	113.0	178,500
40	72.6	112.4	164,000
42	71.5	111.7	151,400
44	70.4	110.9	140,200
46	69.3	110.2	130,300
48	68.2	109.3	121,500
50	67.0	108.5	113,500
55	64.1	106.1	96,600
120 Ft. BOOM			
22	82.9	126.9	280,900 *
24	82.0	126.6	275,400 *
26	81.0	126.2	270,100 *
28	80.0	125.9	260,300 *
30	79.1	125.5	241,700 *
32	78.1	125.0	225,200 *
34	77.1	124.5	210,600 *
36	76.1	124.0	195,700
38	75.1	123.5	179,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
40	74.1	122.9	164,500
42	73.1	122.2	151,900
44	72.1	121.6	140,700
46	71.1	120.9	130,800
48	70.1	120.1	121,900
50	69.1	119.3	113,900
55	66.5	117.2	97,000
130 Ft. BOOM			
24	82.6	136.7	253,200 *
26	81.7	136.4	245,900 *
28	80.8	136.0	238,900 *
30	79.9	135.7	232,100 *
32	79.0	135.3	224,900 *
34	78.1	134.8	210,300 *
36	77.2	134.3	195,900
38	76.3	133.8	179,200
40	75.4	133.3	164,800
42	74.5	132.7	152,100
44	73.5	132.1	140,900
46	72.6	131.5	131,000
48	71.7	130.8	122,100
50	70.7	130.1	114,100
55	68.4	128.1	97,200
60	66.0	125.9	83,600
140 Ft. BOOM			
26	82.3	146.5	239,500 *
28	81.5	146.2	232,600 *
30	80.6	145.8	226,000 *
32	79.8	145.5	219,600 *
34	79.0	145.1	210,400 *
36	78.1	144.6	196,300
38	77.3	144.1	179,600
40	76.4	143.6	165,100
42	75.6	143.1	152,400
44	74.7	142.5	141,200
46	73.9	141.9	131,300
48	73.0	141.3	122,400
50	72.2	140.7	114,300
55	70.0	138.9	97,400
60	67.8	136.8	83,900
65	65.5	134.6	72,800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

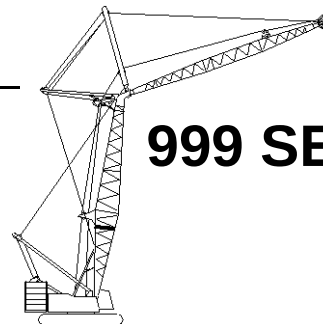
Luffing Jib No. 135

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	215,300 *
28	82.0	156.3	209,700 *
30	81.3	156.0	204,300 *
32	80.5	155.6	199,100 *
34	79.7	155.3	194,000 *
36	78.9	154.8	189,000 *
38	78.2	154.4	179,500
40	77.4	153.9	165,000
42	76.6	153.5	152,300
44	75.8	152.9	141,100
46	75.0	152.4	131,100
48	74.2	151.8	122,200
50	73.4	151.2	114,100
55	71.4	149.5	97,200
60	69.4	147.6	83,600
65	67.3	145.6	72,500
70	65.2	143.3	63,300
160 Ft. BOOM			
28	82.5	166.4	201,300 *
30	81.8	166.1	196,100 *
32	81.1	165.8	191,000 *
34	80.4	165.4	186,100 *
36	79.6	165.1	181,300 *
38	78.9	164.6	176,600 *
40	78.2	164.2	165,100
42	77.4	163.7	152,400
44	76.7	163.3	141,200
46	76.0	162.7	131,200
48	75.2	162.2	122,200
50	74.5	161.6	114,200
55	72.6	160.1	97,200
60	70.7	158.3	83,600
65	68.8	156.4	72,500
70	66.8	154.3	63,300
75	64.9	152.0	55,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.5	187,600 *
30	82.3	176.2	183,200 *
32	81.6	175.9	178,900 *
34	80.9	175.6	174,800 *
36	80.3	175.2	170,700 *
38	79.6	174.9	166,700 *
40	78.9	174.4	162,900 *
42	78.2	174.0	152,400
44	77.5	173.6	141,100
46	76.8	173.1	131,100
48	76.1	172.6	122,200
50	75.4	172.0	114,100
55	73.7	170.6	97,100
60	71.9	168.9	83,500
65	70.1	167.1	72,400
70	68.3	165.2	63,100
75	66.4	163.0	55,200
80	64.6	160.6	48,500
180 Ft. BOOM			
30	82.7	186.3	174,500 *
32	82.1	186.0	170,400 *
34	81.4	185.7	166,400 *
36	80.8	185.4	162,400 *
38	80.2	185.0	158,600 *
40	79.5	184.6	154,900 *
42	78.9	184.2	151,200 *
44	78.2	183.8	141,100
46	77.6	183.4	131,100
48	76.9	182.9	122,200
50	76.2	182.4	114,100
55	74.6	181.0	97,100
60	72.9	179.5	83,500
65	71.2	177.8	72,300
70	69.5	175.9	63,000
75	67.8	173.9	55,200
80	66.1	171.7	48,400
85	64.3	169.3	42,600

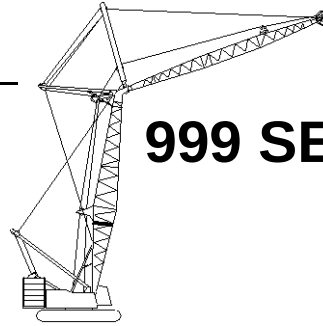
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	118,000 *
50	77.0	192.7	114,600
55	75.4	191.4	97,500
60	73.9	189.9	83,800
65	72.3	188.4	72,700
70	70.7	186.6	63,400
75	69.1	184.7	55,500
80	67.4	182.7	48,700
85	65.8	180.4	42,900
90	64.1	178.0	37,800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	382,100 *
18	81.1	76.9	378,700 *
19	80.3	76.7	375,400 *
20	79.5	76.5	366,500 *
22	77.8	76.0	332,600 *
24	76.1	75.5	303,900 *
26	74.4	74.9	279,400 *
28	72.7	74.2	258,100 *
30	70.9	73.5	239,400 *
32	69.2	72.7	223,000 *
34	67.4	71.8	208,300 *
36	65.6	70.9	189,300 *
80 Ft. BOOM			
17	83.0	87.2	368,200 *
18	82.3	87.0	363,700 *
19	81.5	86.9	359,200 *
20	80.8	86.7	355,100 *
22	79.3	86.3	332,500 *
24	77.9	85.8	303,900 *
26	76.4	85.3	279,300 *
28	74.9	84.7	258,000 *
30	73.4	84.1	239,400 *
32	71.9	83.4	223,000 *
34	70.4	82.7	208,400 *
36	68.8	81.9	190,300 *
38	67.3	81.0	173,900 *
40	65.7	80.0	159,700 *
42	64.1	79.0	147,200 *
90 Ft. BOOM			
19	82.5	97.0	329,800 *
20	81.8	96.8	325,900 *
22	80.5	96.5	318,300 *
24	79.2	96.1	303,600 *
26	77.9	95.6	279,000 *
28	76.6	95.1	257,800 *
30	75.3	94.6	239,200 *
32	74.0	94.0	222,800 *
34	72.6	93.3	208,200 *
36	71.3	92.6	191,000 *
38	69.9	91.8	174,500 *
40	68.6	91.0	160,300 *
42	67.2	90.1	147,800 *
44	65.8	89.2	136,800 *
46	64.3	88.2	127,000 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
100 Ft. BOOM			
20	82.7	107.0	315,200 *
22	81.5	106.6	308,500 *
24	80.3	106.3	301,900 *
26	79.2	105.9	279,600 *
28	78.0	105.4	258,300 *
30	76.8	104.9	239,800 *
32	75.6	104.4	223,400 *
34	74.4	103.8	208,800 *
36	73.2	103.2	192,000 *
38	72.0	102.5	175,600 *
40	70.8	101.8	161,300 *
42	69.6	101.0	148,800 *
44	68.3	100.2	137,700 *
46	67.1	99.3	127,900 *
48	65.8	98.4	119,100 *
50	64.6	97.4	111,200 *
110 Ft. BOOM			
22	82.3	116.8	287,100 *
24	81.2	116.4	281,300 *
26	80.2	116.1	275,400 *
28	79.1	115.7	257,800 *
30	78.0	115.2	239,300 *
32	77.0	114.7	222,900 *
34	75.9	114.2	208,300 *
36	74.8	113.6	192,400 *
38	73.7	113.0	175,800 *
40	72.6	112.4	161,500 *
42	71.5	111.7	149,000 *
44	70.4	110.9	137,900 *
46	69.3	110.2	128,100 *
48	68.2	109.3	119,300 *
50	67.0	108.5	111,300 *
55	64.1	106.1	94,600 *
120 Ft. BOOM			
22	82.9	126.9	278,900 *
24	82.0	126.6	273,400 *
26	81.0	126.2	268,100 *
28	80.0	125.9	258,100 *
30	79.1	125.5	239,500 *
32	78.1	125.0	223,100 *
34	77.1	124.5	208,600 *
36	76.1	124.0	193,000 *
38	75.1	123.5	176,400 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
120 Ft. BOOM			
40	74.1	122.9	162,100 *
42	73.1	122.2	149,500 *
44	72.1	121.6	138,400 *
46	71.1	120.9	128,600 *
48	70.1	120.1	119,800 *
50	69.1	119.3	111,800 *
55	66.5	117.2	95,100 *
130 Ft. BOOM			
24	82.6	136.7	251,800 *
26	81.7	136.4	244,400 *
28	80.8	136.0	237,400 *
30	79.9	135.7	230,700 *
32	79.0	135.3	222,900 *
34	78.1	134.8	208,300 *
36	77.2	134.3	193,300 *
38	76.3	133.8	176,700 *
40	75.4	133.3	162,300 *
42	74.5	132.7	149,700 *
44	73.5	132.1	138,600 *
46	72.6	131.5	128,800 *
48	71.7	130.8	119,900 *
50	70.7	130.1	112,000 *
55	68.4	128.1	95,200 *
60	66.0	125.9	81,800 *
140 Ft. BOOM			
26	82.3	146.5	238,100 *
28	81.5	146.2	231,200 *
30	80.6	145.8	224,500 *
32	79.8	145.5	218,100 *
34	79.0	145.1	208,400 *
36	78.1	144.6	193,700 *
38	77.3	144.1	177,100 *
40	76.4	143.6	162,700 *
42	75.6	143.1	150,100 *
44	74.7	142.5	139,000 *
46	73.9	141.9	129,100 *
48	73.0	141.3	120,300 *
50	72.2	140.7	112,300 *
55	70.0	138.9	95,500 *
60	67.8	136.8	82,100 *
65	65.5	134.6	71,100 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

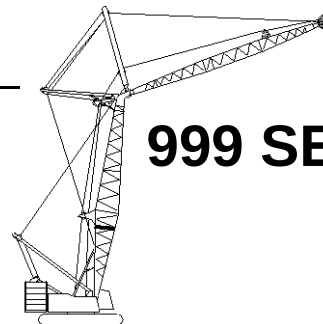
Luffing Jib No. 135

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	213,900 *
28	82.0	156.3	208,300 *
30	81.3	156.0	202,900 *
32	80.5	155.6	197,700 *
34	79.7	155.3	192,700 *
36	78.9	154.8	187,700 *
38	78.2	154.4	177,100
40	77.4	153.9	162,700
42	76.6	153.5	150,000
44	75.8	152.9	138,900
46	75.0	152.4	129,000
48	74.2	151.8	120,100
50	73.4	151.2	112,200
55	71.4	149.5	95,300
60	69.4	147.6	81,900
65	67.3	145.6	70,800
70	65.2	143.3	61,700
160 Ft. BOOM			
28	82.5	166.4	199,900 *
30	81.8	166.1	194,700 *
32	81.1	165.8	189,600 *
34	80.4	165.4	184,700 *
36	79.6	165.1	179,900 *
38	78.9	164.6	175,000 *
40	78.2	164.2	162,800
42	77.4	163.7	150,200
44	76.7	163.3	139,000
46	76.0	162.7	129,100
48	75.2	162.2	120,200
50	74.5	161.6	112,300
55	72.6	160.1	95,400
60	70.7	158.3	81,900
65	68.8	156.4	70,900
70	66.8	154.3	61,700
75	64.9	152.0	53,900

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
170 Ft. BOOM			
28	83.0	176.5	186,200 *
30	82.3	176.2	181,800 *
32	81.6	175.9	177,600 *
34	80.9	175.6	173,500 *
36	80.3	175.2	169,300 *
38	79.6	174.9	165,400 *
40	78.9	174.4	161,400 *
42	78.2	174.0	150,200
44	77.5	173.6	139,000
46	76.8	173.1	129,100
48	76.1	172.6	120,200
50	75.4	172.0	112,200
55	73.7	170.6	95,300
60	71.9	168.9	81,800
65	70.1	167.1	70,800
70	68.3	165.2	61,500
75	66.4	163.0	53,800
80	64.6	160.6	47,100
180 Ft. BOOM			
30	82.7	186.3	173,100 *
32	82.1	186.0	169,100 *
34	81.4	185.7	165,100 *
36	80.8	185.4	161,100 *
38	80.2	185.0	157,300 *
40	79.5	184.6	153,600 *
42	78.9	184.2	150,000 *
44	78.2	183.8	139,000
46	77.6	183.4	129,100
48	76.9	182.9	120,200
50	76.2	182.4	112,200
55	74.6	181.0	95,300
60	72.9	179.5	81,800
65	71.2	177.8	70,700
70	69.5	175.9	61,500
75	67.8	173.9	53,700
80	66.1	171.7	47,000
85	64.3	169.3	41,200

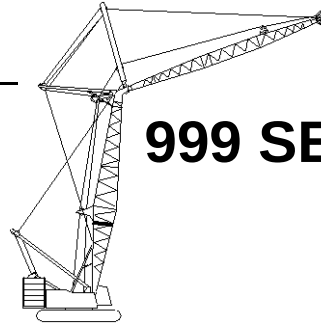
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	118,000 *
50	77.0	192.7	112,700
55	75.4	191.4	95,700
60	73.9	189.9	82,200
65	72.3	188.4	71,100
70	70.7	186.6	61,900
75	69.1	184.7	54,000
80	67.4	182.7	47,300
85	65.8	180.4	41,500
90	64.1	178.0	36,400



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	383,100 *
18	81.1	76.9	380,100 *
19	80.3	76.7	376,600 *
20	79.5	76.5	368,000 *
22	77.8	76.0	333,800 *
24	76.1	75.5	304,800 *
26	74.4	74.9	279,900 *
28	72.7	74.2	258,400 *
30	70.9	73.5	239,600 *
32	69.2	72.7	223,000 *
34	67.4	71.8	208,200 *
36	65.6	70.9	189,100
38	63.7	69.8	172,500
40	61.9	68.7	158,100
42	60.0	67.5	145,600
44	58.0	66.2	134,500
80 Ft. BOOM			
17	83.0	87.2	370,100 *
18	82.3	87.0	365,400 *
19	81.5	86.9	360,900 *
20	80.8	86.7	356,700 *
22	79.3	86.3	333,800 *
24	77.9	85.8	304,900 *
26	76.4	85.3	280,100 *
28	74.9	84.7	258,600 *
30	73.4	84.1	239,800 *
32	71.9	83.4	223,200 *
34	70.4	82.7	208,400 *
36	68.8	81.9	190,400
38	67.3	81.0	173,800
40	65.7	80.0	159,400
42	64.1	79.0	146,800
44	62.4	78.0	135,700
46	60.8	76.8	125,800
48	59.1	75.6	117,000
50	57.4	74.3	109,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	331,400 *
20	81.8	96.8	327,400 *
22	80.5	96.5	319,500 *
24	79.2	96.1	304,700 *
26	77.9	95.6	279,900 *
28	76.6	95.1	258,500 *
30	75.3	94.6	239,700 *
32	74.0	94.0	223,100 *
34	72.6	93.3	208,400 *
36	71.3	92.6	191,400
38	69.9	91.8	174,700
40	68.6	91.0	160,300
42	67.2	90.1	147,600
44	65.8	89.2	136,500
46	64.3	88.2	126,600
48	62.9	87.2	117,700
50	61.4	86.0	109,700
55	57.7	82.9	92,800
100 Ft. BOOM			
20	82.7	107.0	316,600 *
22	81.5	106.6	309,800 *
24	80.3	106.3	303,000 *
26	79.2	105.9	280,600 *
28	78.0	105.4	259,100 *
30	76.8	104.9	240,400 *
32	75.6	104.4	223,800 *
34	74.4	103.8	209,100 *
36	73.2	103.2	192,600
38	72.0	102.5	175,900
40	70.8	101.8	161,500
42	69.6	101.0	148,800
44	68.3	100.2	137,600
46	67.1	99.3	127,700
48	65.8	98.4	118,800
50	64.6	97.4	110,800
55	61.3	94.7	93,900
60	57.9	91.6	80,400

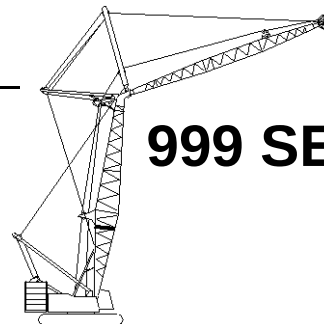
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	288,300 *
24	81.2	116.4	282,300 *
26	80.2	116.1	276,300 *
28	79.1	115.7	258,700 *
30	78.0	115.2	240,000 *
32	77.0	114.7	223,400 *
34	75.9	114.2	208,700 *
36	74.8	113.6	193,100
38	73.7	113.0	176,400
40	72.6	112.4	161,900
42	71.5	111.7	149,200
44	70.4	110.9	138,000
46	69.3	110.2	128,000
48	68.2	109.3	119,100
50	67.0	108.5	111,100
55	64.1	106.1	94,100
60	61.2	103.4	80,600
65	58.1	100.3	69,500
120 Ft. BOOM			
22	82.9	126.9	279,800 *
24	82.0	126.6	274,200 *
26	81.0	126.2	268,900 *
28	80.0	125.9	259,000 *
30	79.1	125.5	240,300 *
32	78.1	125.0	223,800 *
34	77.1	124.5	209,100 *
36	76.1	124.0	193,800
38	75.1	123.5	177,100
40	74.1	122.9	162,500
42	73.1	122.2	149,800
44	72.1	121.6	138,600
46	71.1	120.9	128,600
48	70.1	120.1	119,700
50	69.1	119.3	111,700
55	66.5	117.2	94,700
60	63.8	114.7	81,200
65	61.1	112.0	70,100
70	58.3	109.0	60,800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	252,300 *
26	81.7	136.4	244,900 *
28	80.8	136.0	237,800 *
30	79.9	135.7	231,000 *
32	79.0	135.3	223,600 *
34	78.1	134.8	208,900 *
36	77.2	134.3	194,200
38	76.3	133.8	177,400
40	75.4	133.3	162,900
42	74.5	132.7	150,200
44	73.5	132.1	138,900
46	72.6	131.5	129,000
48	71.7	130.8	120,000
50	70.7	130.1	112,000
55	68.4	128.1	95,000
60	66.0	125.9	81,400
65	63.5	123.4	70,300
70	61.0	120.7	61,000
75	58.4	117.6	53,200
140 Ft. BOOM			
26	82.3	146.5	238,500 *
28	81.5	146.2	231,600 *
30	80.6	145.8	224,900 *
32	79.8	145.5	218,500 *
34	79.0	145.1	209,100 *
36	78.1	144.6	194,700
38	77.3	144.1	177,900
40	76.4	143.6	163,400
42	75.6	143.1	150,600
44	74.7	142.5	139,400
46	73.9	141.9	129,400
48	73.0	141.3	120,500
50	72.2	140.7	112,400
55	70.0	138.9	95,400
60	67.8	136.8	81,800
65	65.5	134.6	70,700
70	63.3	132.1	61,400
75	60.9	129.3	53,600
80	58.5	126.3	46,800

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	214,400 *
28	82.0	156.3	208,700 *
30	81.3	156.0	203,300 *
32	80.5	155.6	198,000 *
34	79.7	155.3	192,900 *
36	78.9	154.8	187,900 *
38	78.2	154.4	178,000
40	77.4	153.9	163,400
42	76.6	153.5	150,600
44	75.8	152.9	139,400
46	75.0	152.4	129,300
48	74.2	151.8	120,400
50	73.4	151.2	112,300
55	71.4	149.5	95,300
60	69.4	147.6	81,600
65	67.3	145.6	70,500
70	65.2	143.3	61,200
75	63.0	140.8	53,300
80	60.9	138.0	46,600
85	58.6	135.0	40,700
160 Ft. BOOM			
28	82.5	166.4	200,300 *
30	81.8	166.1	195,000 *
32	81.1	165.8	190,000 *
34	80.4	165.4	185,000 *
36	79.6	165.1	180,100 *
38	78.9	164.6	175,400 *
40	78.2	164.2	163,600
42	77.4	163.7	150,800
44	76.7	163.3	139,600
46	76.0	162.7	129,500
48	75.2	162.2	120,600
50	74.5	161.6	112,500
55	72.6	160.1	95,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
60	70.7	158.3	81,800
65	68.8	156.4	70,600
70	66.8	154.3	61,300
75	64.9	152.0	53,400
80	62.9	149.4	46,700
85	60.8	146.7	40,800
90	58.7	143.6	35,700
170 Ft. BOOM			
28	83.0	176.5	186,600 *
30	82.3	176.2	182,200 *
32	81.6	175.9	177,900 *
34	80.9	175.6	173,700 *
36	80.3	175.2	169,600 *
38	79.6	174.9	165,600 *
40	78.9	174.4	161,700 *
42	78.2	174.0	150,900
44	77.5	173.6	139,600
46	76.8	173.1	129,500
48	76.1	172.6	120,600
50	75.4	172.0	112,500
55	73.7	170.6	95,400
60	71.9	168.9	81,700
65	70.1	167.1	70,500
70	68.3	165.2	61,200
75	66.4	163.0	53,300
80	64.6	160.6	46,600
85	62.7	158.1	40,700
90	60.8	155.3	35,600
95	58.8	152.3	31,000



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

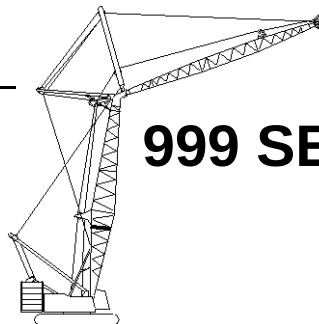
Luffing Jib No. 135

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	173,400 *
32	82.1	186.0	169,300 *
34	81.4	185.7	165,300 *
36	80.8	185.4	161,300 *
38	80.2	185.0	157,500 *
40	79.5	184.6	153,800 *
42	78.9	184.2	150,000 *
44	78.2	183.8	139,700
46	77.6	183.4	129,600
48	76.9	182.9	120,600
50	76.2	182.4	112,500
55	74.6	181.0	95,400
60	72.9	179.5	81,700
65	71.2	177.8	70,600
70	69.5	175.9	61,200
75	67.8	173.9	53,300
80	66.1	171.7	46,600
85	64.3	169.3	40,700
90	62.5	166.8	35,600
95	60.7	164.0	31,000
100	58.9	161.0	27,000

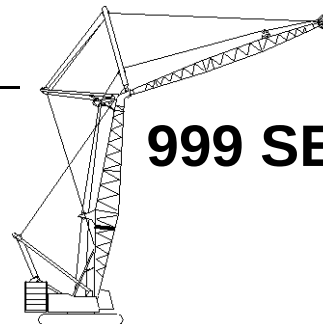
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	118,000 *
50	77.0	192.7	113,000
55	75.4	191.4	95,900
60	73.9	189.9	82,200
65	72.3	188.4	71,000
70	70.7	186.6	61,600
75	69.1	184.7	53,700
80	67.4	182.7	46,900
85	65.8	180.4	41,000
90	64.1	178.0	35,900
95	62.4	175.4	31,400
100	60.7	172.6	27,300
105	58.9	169.6	23,700
110	57.1	166.4	20,400



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	381,000 *
18	81.1	76.9	377,700 *
19	80.3	76.7	374,100 *
20	79.5	76.5	366,000 *
22	77.8	76.0	331,800 *
24	76.1	75.5	302,900 *
26	74.4	74.9	278,200 *
28	72.7	74.2	256,700 *
30	70.9	73.5	237,900 *
32	69.2	72.7	221,300 *
34	67.4	71.8	206,000 *
36	65.6	70.9	186,800 *
38	63.7	69.8	170,300 *
40	61.9	68.7	156,000 *
42	60.0	67.5	143,600 *
44	58.0	66.2	132,500 *
80 Ft. BOOM			
17	83.0	87.2	367,700 *
18	82.3	87.0	363,000 *
19	81.5	86.9	358,400 *
20	80.8	86.7	354,200 *
22	79.3	86.3	332,000 *
24	77.9	85.8	303,100 *
26	76.4	85.3	278,400 *
28	74.9	84.7	256,900 *
30	73.4	84.1	238,200 *
32	71.9	83.4	221,600 *
34	70.4	82.7	206,900 *
36	68.8	81.9	188,300 *
38	67.3	81.0	171,800 *
40	65.7	80.0	157,500 *
42	64.1	79.0	144,900 *
44	62.4	78.0	133,900 *
46	60.8	76.8	124,000 *
48	59.1	75.6	115,200 *
50	57.4	74.3	107,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	329,200 *
20	81.8	96.8	325,200 *
22	80.5	96.5	317,300 *
24	79.2	96.1	303,000 *
26	77.9	95.6	278,300 *
28	76.6	95.1	256,900 *
30	75.3	94.6	238,100 *
32	74.0	94.0	221,600 *
34	72.6	93.3	206,900 *
36	71.3	92.6	189,300 *
38	69.9	91.8	172,800 *
40	68.6	91.0	158,400 *
42	67.2	90.1	145,800 *
44	65.8	89.2	134,700 *
46	64.3	88.2	124,900 *
48	62.9	87.2	116,000 *
50	61.4	86.0	108,100 *
55	57.7	82.9	91,300 *
100 Ft. BOOM			
20	82.7	107.0	314,500 *
22	81.5	106.6	307,600 *
24	80.3	106.3	300,900 *
26	79.2	105.9	279,000 *
28	78.0	105.4	257,600 *
30	76.8	104.9	238,900 *
32	75.6	104.4	222,400 *
34	74.4	103.8	207,700 *
36	73.2	103.2	190,600 *
38	72.0	102.5	174,000 *
40	70.8	101.8	159,700 *
42	69.6	101.0	147,100 *
44	68.3	100.2	136,000 *
46	67.1	99.3	126,100 *
48	65.8	98.4	117,300 *
50	64.6	97.4	109,300 *
55	61.3	94.7	92,500 *
60	57.9	91.6	79,100 *

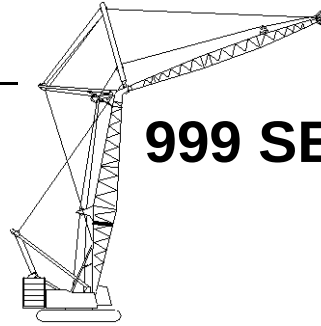
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	286,300 *
24	81.2	116.4	280,400 *
26	80.2	116.1	274,300 *
28	79.1	115.7	257,200 *
30	78.0	115.2	238,500 *
32	77.0	114.7	222,000 *
34	75.9	114.2	207,400 *
36	74.8	113.6	191,200 *
38	73.7	113.0	174,500 *
40	72.6	112.4	160,100 *
42	71.5	111.7	147,500 *
44	70.4	110.9	136,400 *
46	69.3	110.2	126,500 *
48	68.2	109.3	117,600 *
50	67.0	108.5	109,600 *
55	64.1	106.1	92,800 *
60	61.2	103.4	79,300 *
65	58.1	100.3	68,300 *
120 Ft. BOOM			
22	82.9	126.9	278,000 *
24	82.0	126.6	272,400 *
26	81.0	126.2	267,100 *
28	80.0	125.9	257,600 *
30	79.1	125.5	238,900 *
32	78.1	125.0	222,400 *
34	77.1	124.5	207,700 *
36	76.1	124.0	192,000 *
38	75.1	123.5	175,300 *
40	74.1	122.9	160,900 *
42	73.1	122.2	148,200 *
44	72.1	121.6	137,100 *
46	71.1	120.9	127,100 *
48	70.1	120.1	118,300 *
50	69.1	119.3	110,300 *
55	66.5	117.2	93,400 *
60	63.8	114.7	79,900 *
65	61.1	112.0	68,900 *
70	58.3	109.0	59,700 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	251,000 *
26	81.7	136.4	243,600 *
28	80.8	136.0	236,500 *
30	79.9	135.7	229,700 *
32	79.0	135.3	222,200 *
34	78.1	134.8	207,600 *
36	77.2	134.3	192,400
38	76.3	133.8	175,700
40	75.4	133.3	161,300
42	74.5	132.7	148,600
44	73.5	132.1	137,400
46	72.6	131.5	127,500
48	71.7	130.8	118,600
50	70.7	130.1	110,600
55	68.4	128.1	93,700
60	66.0	125.9	80,200
65	63.5	123.4	69,200
70	61.0	120.7	60,000
75	58.4	117.6	52,100
140 Ft. BOOM			
26	82.3	146.5	237,200 *
28	81.5	146.2	230,300 *
30	80.6	145.8	223,600 *
32	79.8	145.5	217,200 *
34	79.0	145.1	207,800 *
36	78.1	144.6	193,000
38	77.3	144.1	176,200
40	76.4	143.6	161,800
42	75.6	143.1	149,100
44	74.7	142.5	137,900
46	73.9	141.9	128,000
48	73.0	141.3	119,100
50	72.2	140.7	111,100
55	70.0	138.9	94,200
60	67.8	136.8	80,700
65	65.5	134.6	69,600
70	63.3	132.1	60,400
75	60.9	129.3	52,600
80	58.5	126.3	45,900

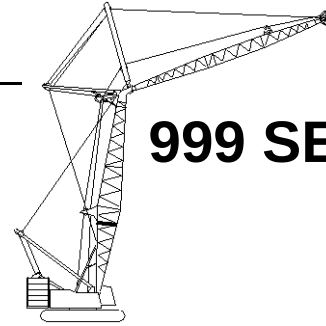
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	213,100 *
28	82.0	156.3	207,500 *
30	81.3	156.0	202,100 *
32	80.5	155.6	196,800 *
34	79.7	155.3	191,700 *
36	78.9	154.8	186,600 *
38	78.2	154.4	176,400
40	77.4	153.9	161,800
42	76.6	153.5	149,100
44	75.8	152.9	137,900
46	75.0	152.4	128,000
48	74.2	151.8	119,000
50	73.4	151.2	111,000
55	71.4	149.5	94,100
60	69.4	147.6	80,500
65	67.3	145.6	69,400
70	65.2	143.3	60,200
75	63.0	140.8	52,300
80	60.9	138.0	45,600
85	58.6	135.0	39,800
160 Ft. BOOM			
28	82.5	166.4	199,100 *
30	81.8	166.1	193,800 *
32	81.1	165.8	188,700 *
34	80.4	165.4	183,800 *
36	79.6	165.1	178,900 *
38	78.9	164.6	174,200 *
40	78.2	164.2	162,100
42	77.4	163.7	149,400
44	76.7	163.3	138,200
46	76.0	162.7	128,200
48	75.2	162.2	119,200
50	74.5	161.6	111,200
55	72.6	160.1	94,200

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
60	70.7	158.3	80,700
65	68.8	156.4	69,600
70	66.8	154.3	60,300
75	64.9	152.0	52,500
80	62.9	149.4	45,800
85	60.8	146.7	39,900
90	58.7	143.6	34,800
170 Ft. BOOM			
28	83.0	176.5	185,400 *
30	82.3	176.2	181,000 *
32	81.6	175.9	176,700 *
34	80.9	175.6	172,600 *
36	80.3	175.2	168,400 *
38	79.6	174.9	164,400 *
40	78.9	174.4	160,600 *
42	78.2	174.0	149,400
44	77.5	173.6	138,200
46	76.8	173.1	128,200
48	76.1	172.6	119,300
50	75.4	172.0	111,200
55	73.7	170.6	94,200
60	71.9	168.9	80,600
65	70.1	167.1	69,500
70	68.3	165.2	60,300
75	66.4	163.0	52,400
80	64.6	160.6	45,700
85	62.7	158.1	39,800
90	60.8	155.3	34,700
95	58.8	152.3	30,200

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	172,300 *
32	82.1	186.0	168,200 *
34	81.4	185.7	164,200 *
36	80.8	185.4	160,100 *
38	80.2	185.0	156,300 *
40	79.5	184.6	152,600 *
42	78.9	184.2	148,900 *
44	78.2	183.8	138,300
46	77.6	183.4	128,300
48	76.9	182.9	119,400
50	76.2	182.4	111,300
55	74.6	181.0	94,300
60	72.9	179.5	80,700
65	71.2	177.8	69,600
70	69.5	175.9	60,300
75	67.8	173.9	52,400
80	66.1	171.7	45,700
85	64.3	169.3	39,900
90	62.5	166.8	34,700
95	60.7	164.0	30,200
100	58.9	161.0	26,200

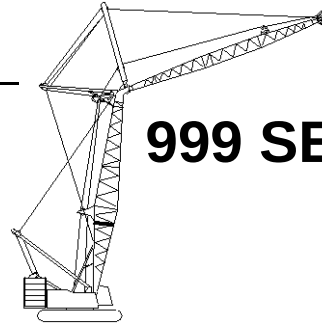
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	118,000 *
50	77.0	192.7	111,900
55	75.4	191.4	94,800
60	73.9	189.9	81,200
65	72.3	188.4	70,000
70	70.7	186.6	60,700
75	69.1	184.7	52,800
80	67.4	182.7	46,100
85	65.8	180.4	40,200
90	64.1	178.0	35,100
95	62.4	175.4	30,600
100	60.7	172.6	26,600
105	58.9	169.6	23,000
110	57.1	166.4	19,700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	377,700 *
18	81.1	76.9	374,000 *
19	80.3	76.7	370,400 *
20	79.5	76.5	362,900 *
22	77.8	76.0	328,800 *
24	76.1	75.5	300,000 *
26	74.4	74.9	275,300 *
28	72.7	74.2	253,900 *
30	70.9	73.5	235,100 *
32	69.2	72.7	218,600 *
34	67.4	71.8	202,300 *
36	65.6	70.9	183,200 *
38	63.7	69.8	166,900 *
40	61.9	68.7	152,700 *
42	60.0	67.5	140,300 *
44	58.0	66.2	129,400 *
80 Ft. BOOM			
17	83.0	87.2	364,200 *
18	82.3	87.0	359,400 *
19	81.5	86.9	354,800 *
20	80.8	86.7	350,600 *
22	79.3	86.3	329,100 *
24	77.9	85.8	300,300 *
26	76.4	85.3	275,600 *
28	74.9	84.7	254,200 *
30	73.4	84.1	235,500 *
32	71.9	83.4	219,000 *
34	70.4	82.7	204,100 *
36	68.8	81.9	184,900 *
38	67.3	81.0	168,500 *
40	65.7	80.0	154,300 *
42	64.1	79.0	141,800 *
44	62.4	78.0	130,900 *
46	60.8	76.8	121,100 *
48	59.1	75.6	112,400 *
50	57.4	74.3	104,500 *

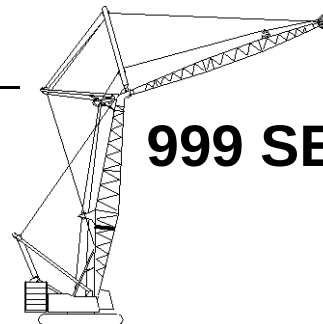
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	325,900 *
20	81.8	96.8	321,900 *
22	80.5	96.5	314,000 *
24	79.2	96.1	300,200 *
26	77.9	95.6	275,600 *
28	76.6	95.1	254,300 *
30	75.3	94.6	235,600 *
32	74.0	94.0	219,100 *
34	72.6	93.3	204,500 *
36	71.3	92.6	186,100 *
38	69.9	91.8	169,600 *
40	68.6	91.0	155,400 *
42	67.2	90.1	142,900 *
44	65.8	89.2	131,900 *
46	64.3	88.2	122,100 *
48	62.9	87.2	113,300 *
50	61.4	86.0	105,400 *
55	57.7	82.9	88,700 *
100 Ft. BOOM			
20	82.7	107.0	311,200 *
22	81.5	106.6	304,400 *
24	80.3	106.3	297,600 *
26	79.2	105.9	276,400 *
28	78.0	105.4	255,100 *
30	76.8	104.9	236,400 *
32	75.6	104.4	220,000 *
34	74.4	103.8	205,300 *
36	73.2	103.2	187,500 *
38	72.0	102.5	171,000 *
40	70.8	101.8	156,700 *
42	69.6	101.0	144,200 *
44	68.3	100.2	133,200 *
46	67.1	99.3	123,400 *
48	65.8	98.4	114,600 *
50	64.6	97.4	106,700 *
55	61.3	94.7	90,000 *
60	57.9	91.6	76,700 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	283,700 *
24	81.2	116.4	277,500 *
26	80.2	116.1	271,400 *
28	79.1	115.7	254,800 *
30	78.0	115.2	236,100 *
32	77.0	114.7	219,700 *
34	75.9	114.2	205,000 *
36	74.8	113.6	188,200 *
38	73.7	113.0	171,600 *
40	72.6	112.4	157,300 *
42	71.5	111.7	144,800 *
44	70.4	110.9	133,700 *
46	69.3	110.2	123,800 *
48	68.2	109.3	115,000 *
50	67.0	108.5	107,100 *
55	64.1	106.1	90,400 *
60	61.2	103.4	77,000 *
65	58.1	100.3	66,100 *
120 Ft. BOOM			
22	82.9	126.9	275,400 *
24	82.0	126.6	269,800 *
26	81.0	126.2	264,400 *
28	80.0	125.9	255,200 *
30	79.1	125.5	236,500 *
32	78.1	125.0	220,100 *
34	77.1	124.5	205,500 *
36	76.1	124.0	189,000 *
38	75.1	123.5	172,500 *
40	74.1	122.9	158,100 *
42	73.1	122.2	145,500 *
44	72.1	121.6	134,500 *
46	71.1	120.9	124,600 *
48	70.1	120.1	115,800 *
50	69.1	119.3	107,900 *
55	66.5	117.2	91,100 *
60	63.8	114.7	77,700 *
65	61.1	112.0	66,700 *
70	58.3	109.0	57,600 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

 Meets
ANSI B30.5
Requirements

999 SERIES 3
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	249,000 *
26	81.7	136.4	241,700 *
28	80.8	136.0	234,600 *
30	79.9	135.7	227,800 *
32	79.0	135.3	220,000 *
34	78.1	134.8	205,400 *
36	77.2	134.3	189,600
38	76.3	133.8	173,000
40	75.4	133.3	158,600
42	74.5	132.7	146,000
44	73.5	132.1	134,900
46	72.6	131.5	125,000
48	71.7	130.8	116,200
50	70.7	130.1	108,300
55	68.4	128.1	91,500
60	66.0	125.9	78,100
65	63.5	123.4	67,100
70	61.0	120.7	57,900
75	58.4	117.6	50,200
140 Ft. BOOM			
26	82.3	146.5	235,300 *
28	81.5	146.2	228,300 *
30	80.6	145.8	221,600 *
32	79.8	145.5	215,200 *
34	79.0	145.1	205,600 *
36	78.1	144.6	190,100
38	77.3	144.1	173,500
40	76.4	143.6	159,100
42	75.6	143.1	146,600
44	74.7	142.5	135,400
46	73.9	141.9	125,600
48	73.0	141.3	116,700
50	72.2	140.7	108,800
55	70.0	138.9	92,000
60	67.8	136.8	78,500
65	65.5	134.6	67,500
70	63.3	132.1	58,400
75	60.9	129.3	50,600
80	58.5	126.3	44,000

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	211,200 *
28	82.0	156.3	205,600 *
30	81.3	156.0	200,100 *
32	80.5	155.6	194,900 *
34	79.7	155.3	189,800 *
36	78.9	154.8	184,700 *
38	78.2	154.4	173,700
40	77.4	153.9	159,300
42	76.6	153.5	146,600
44	75.8	152.9	135,500
46	75.0	152.4	125,600
48	74.2	151.8	116,700
50	73.4	151.2	108,800
55	71.4	149.5	91,900
60	69.4	147.6	78,400
65	67.3	145.6	67,400
70	65.2	143.3	58,200
75	63.0	140.8	50,500
80	60.9	138.0	43,800
85	58.6	135.0	38,000
160 Ft. BOOM			
28	82.5	166.4	197,200 *
30	81.8	166.1	191,900 *
32	81.1	165.8	186,800 *
34	80.4	165.4	181,800 *
36	79.6	165.1	176,900 *
38	78.9	164.6	172,100 *
40	78.2	164.2	159,600
42	77.4	163.7	146,900
44	76.7	163.3	135,800
46	76.0	162.7	125,900
48	75.2	162.2	117,000
50	74.5	161.6	109,000
55	72.6	160.1	92,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
60	70.7	158.3	78,600
65	68.8	156.4	67,600
70	66.8	154.3	58,400
75	64.9	152.0	50,600
80	62.9	149.4	43,900
85	60.8	146.7	38,200
90	58.7	143.6	33,100
170 Ft. BOOM			
28	83.0	176.5	183,500 *
30	82.3	176.2	179,100 *
32	81.6	175.9	174,900 *
34	80.9	175.6	170,700 *
36	80.3	175.2	166,500 *
38	79.6	174.9	162,500 *
40	78.9	174.4	158,600 *
42	78.2	174.0	147,000
44	77.5	173.6	135,900
46	76.8	173.1	125,900
48	76.1	172.6	117,000
50	75.4	172.0	109,000
55	73.7	170.6	92,200
60	71.9	168.9	78,700
65	70.1	167.1	67,600
70	68.3	165.2	58,400
75	66.4	163.0	50,600
80	64.6	160.6	43,900
85	62.7	158.1	38,100
90	60.8	155.3	33,000
95	58.8	152.3	28,600



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

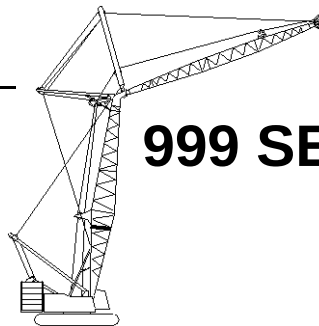
Luffing Jib No. 135

219,600 Lb. Crane Counterweight

80,000 Lb. Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	170,500 *
32	82.1	186.0	166,300 *
34	81.4	185.7	162,300 *
36	80.8	185.4	158,300 *
38	80.2	185.0	154,500 *
40	79.5	184.6	150,700 *
42	78.9	184.2	147,200
44	78.2	183.8	136,000
46	77.6	183.4	126,100
48	76.9	182.9	117,200
50	76.2	182.4	109,200
55	74.6	181.0	92,300
60	72.9	179.5	78,700
65	71.2	177.8	67,700
70	69.5	175.9	58,400
75	67.8	173.9	50,600
80	66.1	171.7	43,900
85	64.3	169.3	38,100
90	62.5	166.8	33,100
95	60.7	164.0	28,600
100	58.9	161.0	24,600

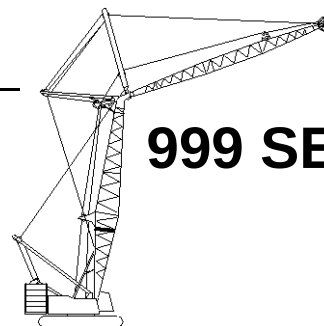
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	117,800
50	77.0	192.7	109,700
55	75.4	191.4	92,800
60	73.9	189.9	79,200
65	72.3	188.4	68,100
70	70.7	186.6	58,900
75	69.1	184.7	51,100
80	67.4	182.7	44,400
85	65.8	180.4	38,500
90	64.1	178.0	33,500
95	62.4	175.4	29,000
100	60.7	172.6	25,000
105	58.9	169.6	21,400
110	57.1	166.4	18,200



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	380,900 *
18	81.1	76.9	377,700 *
19	80.3	76.7	374,100 *
20	79.5	76.5	366,100 *
22	77.8	76.0	331,500 *
24	76.1	75.5	302,300 *
26	74.4	74.9	277,200 *
28	72.7	74.2	255,500 *
30	70.9	73.5	236,500 *
32	69.2	72.7	219,700 *
34	67.4	71.8	203,800 *
36	65.6	70.9	184,400 *
38	63.7	69.8	167,800 *
40	61.9	68.7	153,300 *
42	60.0	67.5	140,700 *
44	58.0	66.2	129,500 *
46	56.0	64.8	119,600 *
48	54.0	63.4	110,700 *
50	51.9	61.7	102,800 *
80 Ft. BOOM			
17	83.0	87.2	368,400 *
18	82.3	87.0	363,600 *
19	81.5	86.9	358,800 *
20	80.8	86.7	354,400 *
22	79.3	86.3	331,900 *
24	77.9	85.8	302,700 *
26	76.4	85.3	277,700 *
28	74.9	84.7	256,100 *
30	73.4	84.1	237,100 *
32	71.9	83.4	220,400 *
34	70.4	82.7	205,500 *
36	68.8	81.9	186,500 *
38	67.3	81.0	169,800 *
40	65.7	80.0	155,300 *
42	64.1	79.0	142,600 *
44	62.4	78.0	131,400 *
46	60.8	76.8	121,500 *
48	59.1	75.6	112,600 *
50	57.4	74.3	104,500 *
55	52.9	70.6	87,600 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	329,600 *
20	81.8	96.8	325,400 *
22	80.5	96.5	317,300 *
24	79.2	96.1	302,900 *
26	77.9	95.6	277,900 *
28	76.6	95.1	256,200 *
30	75.3	94.6	237,300 *
32	74.0	94.0	220,600 *
34	72.6	93.3	205,700 *
36	71.3	92.6	187,900 *
38	69.9	91.8	171,100 *
40	68.6	91.0	156,600 *
42	67.2	90.1	143,900 *
44	65.8	89.2	132,700 *
46	64.3	88.2	122,700 *
48	62.9	87.2	113,800 *
50	61.4	86.0	105,800 *
55	57.7	82.9	88,800 *
60	53.8	79.3	75,200 *
100 Ft. BOOM			
20	82.7	107.0	314,800 *
22	81.5	106.6	307,700 *
24	80.3	106.3	300,700 *
26	79.2	105.9	278,800 *
28	78.0	105.4	257,200 *
30	76.8	104.9	238,300 *
32	75.6	104.4	221,600 *
34	74.4	103.8	206,700 *
36	73.2	103.2	189,500 *
38	72.0	102.5	172,700 *
40	70.8	101.8	158,200 *
42	69.6	101.0	145,500 *
44	68.3	100.2	134,300 *
46	67.1	99.3	124,300 *
48	65.8	98.4	115,300 *
50	64.6	97.4	107,300 *
55	61.3	94.7	90,300 *
60	57.9	91.6	76,700 *
65	54.4	88.1	65,600 *

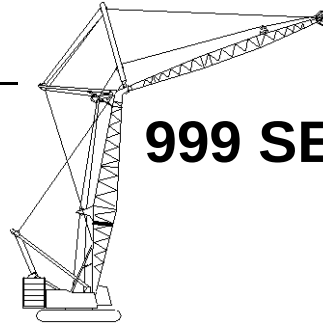
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	286,400 *
24	81.2	116.4	280,300 *
26	80.2	116.1	274,000 *
28	79.1	115.7	257,000 *
30	78.0	115.2	238,100 *
32	77.0	114.7	221,400 *
34	75.9	114.2	206,600 *
36	74.8	113.6	190,300 *
38	73.7	113.0	173,500 *
40	72.6	112.4	158,900 *
42	71.5	111.7	146,200 *
44	70.4	110.9	134,900 *
46	69.3	110.2	124,900 *
48	68.2	109.3	115,900 *
50	67.0	108.5	107,900 *
55	64.1	106.1	90,800 *
60	61.2	103.4	77,200 *
65	58.1	100.3	66,000 *
70	55.0	96.8	56,700 *
75	51.7	93.0	48,800 *
120 Ft. BOOM			
22	82.9	126.9	278,000 *
24	82.0	126.6	272,300 *
26	81.0	126.2	266,800 *
28	80.0	125.9	257,400 *
30	79.1	125.5	238,600 *
32	78.1	125.0	221,900 *
34	77.1	124.5	207,100 *
36	76.1	124.0	191,300 *
38	75.1	123.5	174,500 *
40	74.1	122.9	159,900 *
42	73.1	122.2	147,100 *
44	72.1	121.6	135,800 *
46	71.1	120.9	125,800 *
48	70.1	120.1	116,800 *
50	69.1	119.3	108,700 *
55	66.5	117.2	91,700 *
60	63.8	114.7	78,000 *
65	61.1	112.0	66,900 *
70	58.3	109.0	57,600 *
75	55.4	105.6	49,700 *
80	52.4	101.8	42,900 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	250,700 *
26	81.7	136.4	243,300 *
28	80.8	136.0	236,100 *
30	79.9	135.7	229,200 *
32	79.0	135.3	221,900 *
34	78.1	134.8	207,100 *
36	77.2	134.3	192,000
38	76.3	133.8	175,100
40	75.4	133.3	160,500
42	74.5	132.7	147,700
44	73.5	132.1	136,400
46	72.6	131.5	126,300
48	71.7	130.8	117,300
50	70.7	130.1	109,300
55	68.4	128.1	92,200
60	66.0	125.9	78,500
65	63.5	123.4	67,300
70	61.0	120.7	58,000
75	58.4	117.6	50,100
80	55.8	114.3	43,300
85	53.0	110.6	37,400
140 Ft. BOOM			
26	82.3	146.5	236,900 *
28	81.5	146.2	229,900 *
30	80.6	145.8	223,100 *
32	79.8	145.5	216,600 *
34	79.0	145.1	207,400 *
36	78.1	144.6	192,600
38	77.3	144.1	175,700
40	76.4	143.6	161,100
42	75.6	143.1	148,300
44	74.7	142.5	137,000
46	73.9	141.9	126,900
48	73.0	141.3	118,000
50	72.2	140.7	109,900
55	70.0	138.9	92,800
60	67.8	136.8	79,100
65	65.5	134.6	67,900
70	63.3	132.1	58,600
75	60.9	129.3	50,700
80	58.5	126.3	43,900
85	56.1	123.0	38,000
90	53.5	119.3	32,900

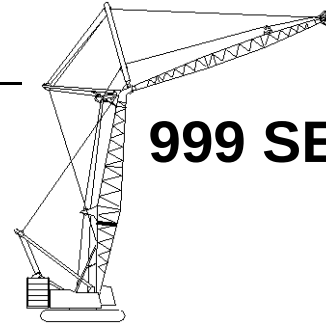
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	212,800 *
28	82.0	156.3	207,100 *
30	81.3	156.0	201,600 *
32	80.5	155.6	196,300 *
34	79.7	155.3	191,100 *
36	78.9	154.8	186,000 *
38	78.2	154.4	176,000
40	77.4	153.9	161,300
42	76.6	153.5	148,500
44	75.8	152.9	137,100
46	75.0	152.4	127,100
48	74.2	151.8	118,100
50	73.4	151.2	109,900
55	71.4	149.5	92,800
60	69.4	147.6	79,100
65	67.3	145.6	67,900
70	65.2	143.3	58,500
75	63.0	140.8	50,600
80	60.9	138.0	43,800
85	58.6	135.0	37,900
90	56.3	131.7	32,700
95	54.0	128.1	28,200
100	51.6	124.2	24,100
160 Ft. BOOM			
28	82.5	166.4	198,700 *
30	81.8	166.1	193,400 *
32	81.1	165.8	188,200 *
34	80.4	165.4	183,200 *
36	79.6	165.1	178,300 *
38	78.9	164.6	173,600 *
40	78.2	164.2	161,700
42	77.4	163.7	148,800
44	76.7	163.3	137,500
46	76.0	162.7	127,400
48	75.2	162.2	118,400
50	74.5	161.6	110,200
55	72.6	160.1	93,100
60	70.7	158.3	79,400
65	68.8	156.4	68,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	58,800
75	64.9	152.0	50,800
80	62.9	149.4	44,000
85	60.8	146.7	38,100
90	58.7	143.6	33,000
95	56.6	140.4	28,400
100	54.4	136.8	24,400
105	52.1	133.0	20,700
170 Ft. BOOM			
28	83.0	176.5	185,000 *
30	82.3	176.2	180,500 *
32	81.6	175.9	176,200 *
34	80.9	175.6	172,000 *
36	80.3	175.2	167,800 *
38	79.6	174.9	163,800 *
40	78.9	174.4	159,900 *
42	78.2	174.0	149,000
44	77.5	173.6	137,600
46	76.8	173.1	127,500
48	76.1	172.6	118,500
50	75.4	172.0	110,400
55	73.7	170.6	93,200
60	71.9	168.9	79,400
65	70.1	167.1	68,200
70	68.3	165.2	58,800
75	66.4	163.0	50,900
80	64.6	160.6	44,100
85	62.7	158.1	38,200
90	60.8	155.3	33,000
95	58.8	152.3	28,400
100	56.8	149.1	24,400
105	54.7	145.6	20,700
110	52.6	141.8	17,500

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	171,800 *
32	82.1	186.0	167,700 *
34	81.4	185.7	163,600 *
36	80.8	185.4	159,500 *
38	80.2	185.0	155,700 *
40	79.5	184.6	151,900 *
42	78.9	184.2	148,100 *
44	78.2	183.8	137,800
46	77.6	183.4	127,700
48	76.9	182.9	118,700
50	76.2	182.4	110,500
55	74.6	181.0	93,300
60	72.9	179.5	79,600
65	71.2	177.8	68,300
70	69.5	175.9	58,900
75	67.8	173.9	51,000
80	66.1	171.7	44,200
85	64.3	169.3	38,300
90	62.5	166.8	33,100
95	60.7	164.0	28,500
100	58.9	161.0	24,500
105	57.0	157.8	20,800
110	55.0	154.3	17,600
115	53.0	150.6	14,600
120	51.0	146.6	11,000 *

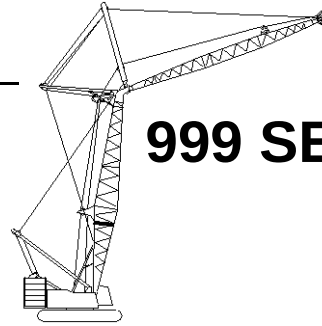
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	118,000 *
50	77.0	192.7	111,100
55	75.4	191.4	93,900
60	73.9	189.9	80,100
65	72.3	188.4	68,800
70	70.7	186.6	59,400
75	69.1	184.7	51,500
80	67.4	182.7	44,600
85	65.8	180.4	38,700
90	64.1	178.0	33,500
95	62.4	175.4	29,000
100	60.7	172.6	24,900
105	58.9	169.6	21,200
110	57.1	166.4	18,000
115	55.3	163.0	15,000
120	53.4	159.3	12,300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	378,000 *
18	81.1	76.9	374,600 *
19	80.3	76.7	370,800 *
20	79.5	76.5	363,400 *
22	77.8	76.0	328,900 *
24	76.1	75.5	299,700 *
26	74.4	74.9	274,600 *
28	72.7	74.2	252,900 *
30	70.9	73.5	233,900 *
32	69.2	72.7	217,200 *
34	67.4	71.8	200,400 *
36	65.6	70.9	181,100 *
38	63.7	69.8	164,500 *
40	61.9	68.7	150,100 *
42	60.0	67.5	137,500 *
44	58.0	66.2	126,400 *
46	56.0	64.8	116,600 *
48	54.0	63.4	107,700 *
50	51.9	61.7	99,800 *
80 Ft. BOOM			
17	83.0	87.2	365,400 *
18	82.3	87.0	360,500 *
19	81.5	86.9	355,700 *
20	80.8	86.7	351,300 *
22	79.3	86.3	329,400 *
24	77.9	85.8	300,300 *
26	76.4	85.3	275,300 *
28	74.9	84.7	253,600 *
30	73.4	84.1	234,700 *
32	71.9	83.4	218,000 *
34	70.4	82.7	202,700 *
36	68.8	81.9	183,300 *
38	67.3	81.0	166,700 *
40	65.7	80.0	152,300 *
42	64.1	79.0	139,700 *
44	62.4	78.0	128,500 *
46	60.8	76.8	118,600 *
48	59.1	75.6	109,800 *
50	57.4	74.3	101,800 *
55	52.9	70.6	84,900 *

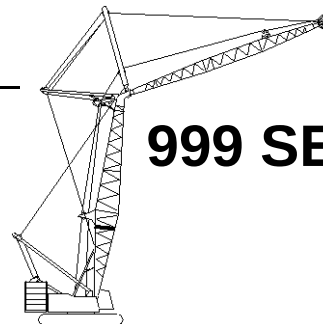
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	326,800 *
20	81.8	96.8	322,600 *
22	80.5	96.5	314,400 *
24	79.2	96.1	300,500 *
26	77.9	95.6	275,500 *
28	76.6	95.1	253,900 *
30	75.3	94.6	235,000 *
32	74.0	94.0	218,300 *
34	72.6	93.3	203,500 *
36	71.3	92.6	184,900 *
38	69.9	91.8	168,300 *
40	68.6	91.0	153,800 *
42	67.2	90.1	141,100 *
44	65.8	89.2	130,000 *
46	64.3	88.2	120,000 *
48	62.9	87.2	111,200 *
50	61.4	86.0	103,200 *
55	57.7	82.9	86,300 *
60	53.8	79.3	72,700 *
100 Ft. BOOM			
20	82.7	107.0	312,000 *
22	81.5	106.6	304,900 *
24	80.3	106.3	297,900 *
26	79.2	105.9	276,500 *
28	78.0	105.4	254,900 *
30	76.8	104.9	236,100 *
32	75.6	104.4	219,400 *
34	74.4	103.8	204,600 *
36	73.2	103.2	186,700 *
38	72.0	102.5	170,000 *
40	70.8	101.8	155,500 *
42	69.6	101.0	142,800 *
44	68.3	100.2	131,700 *
46	67.1	99.3	121,700 *
48	65.8	98.4	112,800 *
50	64.6	97.4	104,800 *
55	61.3	94.7	87,900 *
60	57.9	91.6	74,400 *
65	54.4	88.1	63,300 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	284,200 *
24	81.2	116.4	277,800 *
26	80.2	116.1	271,500 *
28	79.1	115.7	254,800 *
30	78.0	115.2	235,900 *
32	77.0	114.7	219,300 *
34	75.9	114.2	204,500 *
36	74.8	113.6	187,600 *
38	73.7	113.0	170,900 *
40	72.6	112.4	156,300 *
42	71.5	111.7	143,600 *
44	70.4	110.9	132,400 *
46	69.3	110.2	122,500 *
48	68.2	109.3	113,500 *
50	67.0	108.5	105,500 *
55	64.1	106.1	88,500 *
60	61.2	103.4	75,000 *
65	58.1	100.3	63,900 *
70	55.0	96.8	54,600 *
75	51.7	93.0	46,700 *
120 Ft. BOOM			
22	82.9	126.9	275,700 *
24	82.0	126.6	269,900 *
26	81.0	126.2	264,400 *
28	80.0	125.9	255,300 *
30	79.1	125.5	236,500 *
32	78.1	125.0	219,800 *
34	77.1	124.5	205,100 *
36	76.1	124.0	188,700 *
38	75.1	123.5	171,900 *
40	74.1	122.9	157,400 *
42	73.1	122.2	144,700 *
44	72.1	121.6	133,400 *
46	71.1	120.9	123,400 *
48	70.1	120.1	114,500 *
50	69.1	119.3	106,500 *
55	66.5	117.2	89,500 *
60	63.8	114.7	75,900 *
65	61.1	112.0	64,800 *
70	58.3	109.0	55,500 *
75	55.4	105.6	47,700 *
80	52.4	101.8	40,900 *

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	249,000 *
26	81.7	136.4	241,500 *
28	80.8	136.0	234,300 *
30	79.9	135.7	227,500 *
32	79.0	135.3	219,900 *
34	78.1	134.8	205,100 *
36	77.2	134.3	189,400
38	76.3	133.8	172,600
40	75.4	133.3	158,100
42	74.5	132.7	145,300
44	73.5	132.1	134,100
46	72.6	131.5	124,100
48	71.7	130.8	115,100
50	70.7	130.1	107,100
55	68.4	128.1	90,100
60	66.0	125.9	76,400
65	63.5	123.4	65,300
70	61.0	120.7	56,000
75	58.4	117.6	48,200
80	55.8	114.3	41,400
85	53.0	110.6	35,600
140 Ft. BOOM			
26	82.3	146.5	235,100 *
28	81.5	146.2	228,100 *
30	80.6	145.8	221,300 *
32	79.8	145.5	214,800 *
34	79.0	145.1	205,500 *
36	78.1	144.6	190,200
38	77.3	144.1	173,400
40	76.4	143.6	158,800
42	75.6	143.1	146,000
44	74.7	142.5	134,800
46	73.9	141.9	124,700
48	73.0	141.3	115,800
50	72.2	140.7	107,700
55	70.0	138.9	90,700
60	67.8	136.8	77,100
65	65.5	134.6	65,900
70	63.3	132.1	56,700
75	60.9	129.3	48,800
80	58.5	126.3	42,000
85	56.1	123.0	36,200
90	53.5	119.3	31,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	211,100 *
28	82.0	156.3	205,400 *
30	81.3	156.0	199,900 *
32	80.5	155.6	194,500 *
34	79.7	155.3	189,400 *
36	78.9	154.8	184,200 *
38	78.2	154.4	173,700
40	77.4	153.9	159,000
42	76.6	153.5	146,300
44	75.8	152.9	135,000
46	75.0	152.4	124,900
48	74.2	151.8	115,900
50	73.4	151.2	107,900
55	71.4	149.5	90,800
60	69.4	147.6	77,100
65	67.3	145.6	66,000
70	65.2	143.3	56,700
75	63.0	140.8	48,800
80	60.9	138.0	42,000
85	58.6	135.0	36,100
90	56.3	131.7	31,000
95	54.0	128.1	26,500
100	51.6	124.2	22,400
160 Ft. BOOM			
28	82.5	166.4	196,900 *
30	81.8	166.1	191,600 *
32	81.1	165.8	186,500 *
34	80.4	165.4	181,500 *
36	79.6	165.1	176,500 *
38	78.9	164.6	171,800 *
40	78.2	164.2	159,500
42	77.4	163.7	146,600
44	76.7	163.3	135,300
46	76.0	162.7	125,300
48	75.2	162.2	116,300
50	74.5	161.6	108,200
55	72.6	160.1	91,100
60	70.7	158.3	77,500
65	68.8	156.4	66,300

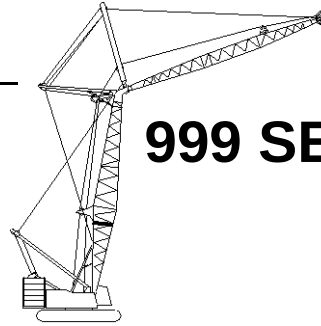
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	57,000
75	64.9	152.0	49,100
80	62.9	149.4	42,300
85	60.8	146.7	36,400
90	58.7	143.6	31,300
95	56.6	140.4	26,700
100	54.4	136.8	22,700
105	52.1	133.0	19,100
170 Ft. BOOM			
28	83.0	176.5	183,300 *
30	82.3	176.2	178,900 *
32	81.6	175.9	174,500 *
34	80.9	175.6	170,300 *
36	80.3	175.2	166,100 *
38	79.6	174.9	162,100 *
40	78.9	174.4	158,200 *
42	78.2	174.0	146,900
44	77.5	173.6	135,500
46	76.8	173.1	125,500
48	76.1	172.6	116,500
50	75.4	172.0	108,400
55	73.7	170.6	91,300
60	71.9	168.9	77,600
65	70.1	167.1	66,400
70	68.3	165.2	57,000
75	66.4	163.0	49,100
80	64.6	160.6	42,400
85	62.7	158.1	36,500
90	60.8	155.3	31,300
95	58.8	152.3	26,800
100	56.8	149.1	22,800
105	54.7	145.6	19,100
110	52.6	141.8	15,900



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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

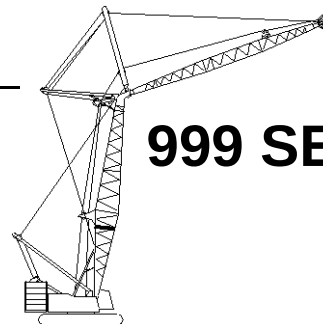
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	170,100 *
32	82.1	186.0	166,000 *
34	81.4	185.7	161,900 *
36	80.8	185.4	157,900 *
38	80.2	185.0	154,000 *
40	79.5	184.6	150,200 *
42	78.9	184.2	146,500 *
44	78.2	183.8	135,800
46	77.6	183.4	125,700
48	76.9	182.9	116,700
50	76.2	182.4	108,600
55	74.6	181.0	91,500
60	72.9	179.5	77,800
65	71.2	177.8	66,500
70	69.5	175.9	57,200
75	67.8	173.9	49,300
80	66.1	171.7	42,500
85	64.3	169.3	36,600
90	62.5	166.8	31,500
95	60.7	164.0	26,900
100	58.9	161.0	22,900
105	57.0	157.8	19,300
110	55.0	154.3	16,000
115	53.0	150.6	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	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	117,300 *
50	77.0	192.7	109,200
55	75.4	191.4	92,100
60	73.9	189.9	78,300
65	72.3	188.4	67,100
70	70.7	186.6	57,700
75	69.1	184.7	49,800
80	67.4	182.7	43,000
85	65.8	180.4	37,100
90	64.1	178.0	31,900
95	62.4	175.4	27,400
100	60.7	172.6	23,300
105	58.9	169.6	19,700
110	57.1	166.4	16,400
115	55.3	163.0	13,500
120	53.4	159.3	10,800

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	375,900 *
18	81.1	76.9	372,100 *
19	80.3	76.7	368,300 *
20	79.5	76.5	361,500 *
22	77.8	76.0	327,000 *
24	76.1	75.5	297,800 *
26	74.4	74.9	272,800 *
28	72.7	74.2	251,100 *
30	70.9	73.5	232,200 *
32	69.2	72.7	215,400 *
34	67.4	71.8	197,900 *
36	65.6	70.9	178,600 *
38	63.7	69.8	162,100 *
40	61.9	68.7	147,800 *
42	60.0	67.5	135,300 *
44	58.0	66.2	124,300 *
46	56.0	64.8	114,400 *
48	54.0	63.4	105,700 *
50	51.9	61.7	97,700 *
80 Ft. BOOM			
17	83.0	87.2	363,100 *
18	82.3	87.0	358,200 *
19	81.5	86.9	353,400 *
20	80.8	86.7	348,900 *
22	79.3	86.3	327,600 *
24	77.9	85.8	298,500 *
26	76.4	85.3	273,600 *
28	74.9	84.7	251,900 *
30	73.4	84.1	233,000 *
32	71.9	83.4	216,300 *
34	70.4	82.7	200,400 *
36	68.8	81.9	181,100 *
38	67.3	81.0	164,500 *
40	65.7	80.0	150,200 *
42	64.1	79.0	137,600 *
44	62.4	78.0	126,500 *
46	60.8	76.8	116,700 *
48	59.1	75.6	107,800 *
50	57.4	74.3	99,900 *
55	52.9	70.6	83,100 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	324,700 *
20	81.8	96.8	320,500 *
22	80.5	96.5	312,200 *
24	79.2	96.1	298,800 *
26	77.9	95.6	273,900 *
28	76.6	95.1	252,300 *
30	75.3	94.6	233,400 *
32	74.0	94.0	216,800 *
34	72.6	93.3	202,000 *
36	71.3	92.6	182,800 *
38	69.9	91.8	166,200 *
40	68.6	91.0	151,800 *
42	67.2	90.1	139,200 *
44	65.8	89.2	128,100 *
46	64.3	88.2	118,200 *
48	62.9	87.2	109,300 *
50	61.4	86.0	101,400 *
55	57.7	82.9	84,600 *
60	53.8	79.3	71,100 *
100 Ft. BOOM			
20	82.7	107.0	310,300 *
22	81.5	106.6	302,800 *
24	80.3	106.3	295,700 *
26	79.2	105.9	275,000 *
28	78.0	105.4	253,400 *
30	76.8	104.9	234,600 *
32	75.6	104.4	217,900 *
34	74.4	103.8	203,100 *
36	73.2	103.2	184,700 *
38	72.0	102.5	168,100 *
40	70.8	101.8	153,600 *
42	69.6	101.0	141,000 *
44	68.3	100.2	129,900 *
46	67.1	99.3	120,000 *
48	65.8	98.4	111,100 *
50	64.6	97.4	103,200 *
55	61.3	94.7	86,300 *
60	57.9	91.6	72,800 *
65	54.4	88.1	61,800 *

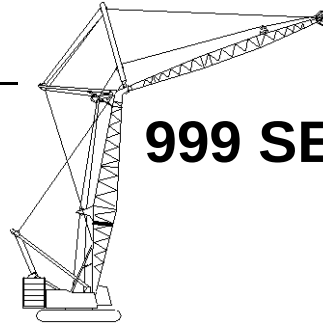
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	282,300 *
24	81.2	116.4	275,900 *
26	80.2	116.1	269,500 *
28	79.1	115.7	253,300 *
30	78.0	115.2	234,500 *
32	77.0	114.7	217,900 *
34	75.9	114.2	203,100 *
36	74.8	113.6	185,700 *
38	73.7	113.0	169,000 *
40	72.6	112.4	154,500 *
42	71.5	111.7	141,900 *
44	70.4	110.9	130,700 *
46	69.3	110.2	120,800 *
48	68.2	109.3	111,900 *
50	67.0	108.5	103,900 *
55	64.1	106.1	87,000 *
60	61.2	103.4	73,500 *
65	58.1	100.3	62,500 *
70	55.0	96.8	53,200 *
75	51.7	93.0	45,400 *
120 Ft. BOOM			
22	82.9	126.9	274,000 *
24	82.0	126.6	268,200 *
26	81.0	126.2	262,600 *
28	80.0	125.9	253,900 *
30	79.1	125.5	235,100 *
32	78.1	125.0	218,500 *
34	77.1	124.5	203,700 *
36	76.1	124.0	186,900 *
38	75.1	123.5	170,100 *
40	74.1	122.9	155,700 *
42	73.1	122.2	143,000 *
44	72.1	121.6	131,800 *
46	71.1	120.9	121,900 *
48	70.1	120.1	113,000 *
50	69.1	119.3	105,000 *
55	66.5	117.2	88,100 *
60	63.8	114.7	74,500 *
65	61.1	112.0	63,500 *
70	58.3	109.0	54,200 *
75	55.4	105.6	46,400 *
80	52.4	101.8	39,700 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	247,700 *
26	81.7	136.4	240,200 *
28	80.8	136.0	233,100 *
30	79.9	135.7	226,200 *
32	79.0	135.3	218,500 *
34	78.1	134.8	203,800 *
36	77.2	134.3	187,600
38	76.3	133.8	170,900
40	75.4	133.3	156,400
42	74.5	132.7	143,700
44	73.5	132.1	132,500
46	72.6	131.5	122,500
48	71.7	130.8	113,600
50	70.7	130.1	105,600
55	68.4	128.1	88,700
60	66.0	125.9	75,100
65	63.5	123.4	64,000
70	61.0	120.7	54,800
75	58.4	117.6	47,000
80	55.8	114.3	40,200
85	53.0	110.6	34,400
140 Ft. BOOM			
26	82.3	146.5	233,800 *
28	81.5	146.2	226,800 *
30	80.6	145.8	220,000 *
32	79.8	145.5	213,500 *
34	79.0	145.1	204,200 *
36	78.1	144.6	188,400
38	77.3	144.1	171,700
40	76.4	143.6	157,200
42	75.6	143.1	144,500
44	74.7	142.5	133,300
46	73.9	141.9	123,300
48	73.0	141.3	114,400
50	72.2	140.7	106,300
55	70.0	138.9	89,400
60	67.8	136.8	75,800
65	65.5	134.6	64,700
70	63.3	132.1	55,500
75	60.9	129.3	47,600
80	58.5	126.3	40,900
85	56.1	123.0	35,100
90	53.5	119.3	30,000

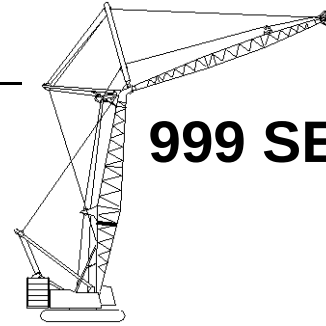
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	209,900 *
28	82.0	156.3	204,200 *
30	81.3	156.0	198,700 *
32	80.5	155.6	193,300 *
34	79.7	155.3	188,100 *
36	78.9	154.8	183,000 *
38	78.2	154.4	172,100
40	77.4	153.9	157,500
42	76.6	153.5	144,700
44	75.8	152.9	133,500
46	75.0	152.4	123,500
48	74.2	151.8	114,600
50	73.4	151.2	106,500
55	71.4	149.5	89,500
60	69.4	147.6	75,900
65	67.3	145.6	64,800
70	65.2	143.3	55,500
75	63.0	140.8	47,700
80	60.9	138.0	40,900
85	58.6	135.0	35,100
90	56.3	131.7	30,000
95	54.0	128.1	25,500
100	51.6	124.2	21,400
160 Ft. BOOM			
28	82.5	166.4	195,700 *
30	81.8	166.1	190,400 *
32	81.1	165.8	185,200 *
34	80.4	165.4	180,200 *
36	79.6	165.1	175,300 *
38	78.9	164.6	170,500 *
40	78.2	164.2	157,900
42	77.4	163.7	145,200
44	76.7	163.3	133,900
46	76.0	162.7	123,900
48	75.2	162.2	115,000
50	74.5	161.6	106,900
55	72.6	160.1	89,900
60	70.7	158.3	76,300
65	68.8	156.4	65,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	55,900
75	64.9	152.0	48,000
80	62.9	149.4	41,200
85	60.8	146.7	35,400
90	58.7	143.6	30,300
95	56.6	140.4	25,800
100	54.4	136.8	21,800
105	52.1	133.0	18,200
170 Ft. BOOM			
28	83.0	176.5	182,100 *
30	82.3	176.2	177,700 *
32	81.6	175.9	173,400 *
34	80.9	175.6	169,100 *
36	80.3	175.2	164,900 *
38	79.6	174.9	160,900 *
40	78.9	174.4	156,800 *
42	78.2	174.0	145,400
44	77.5	173.6	134,200
46	76.8	173.1	124,100
48	76.1	172.6	115,200
50	75.4	172.0	107,100
55	73.7	170.6	90,100
60	71.9	168.9	76,400
65	70.1	167.1	65,300
70	68.3	165.2	56,000
75	66.4	163.0	48,100
80	64.6	160.6	41,300
85	62.7	158.1	35,500
90	60.8	155.3	30,400
95	58.8	152.3	25,900
100	56.8	149.1	21,800
105	54.7	145.6	18,200
110	52.6	141.8	15,000 *

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	169,000 *
32	82.1	186.0	164,800 *
34	81.4	185.7	160,800 *
36	80.8	185.4	156,700 *
38	80.2	185.0	152,800 *
40	79.5	184.6	149,100 *
42	78.9	184.2	145,300 *
44	78.2	183.8	134,400
46	77.6	183.4	124,400
48	76.9	182.9	115,400
50	76.2	182.4	107,300
55	74.6	181.0	90,300
60	72.9	179.5	76,600
65	71.2	177.8	65,500
70	69.5	175.9	56,200
75	67.8	173.9	48,300
80	66.1	171.7	41,500
85	64.3	169.3	35,700
90	62.5	166.8	30,500
95	60.7	164.0	26,000
100	58.9	161.0	22,000
105	57.0	157.8	18,400
110	55.0	154.3	15,100
115	53.0	150.6	11,900 *

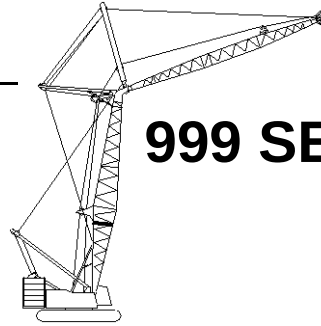
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
190 Ft. BOOM			
32	82.5	196.2	118,000 *
34	81.9	195.9	118,000 *
36	81.3	195.5	118,000 *
38	80.7	195.2	118,000 *
40	80.1	194.8	118,000 *
42	79.4	194.4	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	115,900 *
50	77.0	192.7	108,000
55	75.4	191.4	90,900
60	73.9	189.9	77,200
65	72.3	188.4	66,100
70	70.7	186.6	56,700
75	69.1	184.7	48,800
80	67.4	182.7	42,000
85	65.8	180.4	36,200
90	64.1	178.0	31,000
95	62.4	175.4	26,500
100	60.7	172.6	22,500
105	58.9	169.6	18,900
110	57.1	166.4	15,600
115	55.3	163.0	12,700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	372,600 *
18	81.1	76.9	368,700 *
19	80.3	76.7	364,700 *
20	79.5	76.5	358,700 *
22	77.8	76.0	324,200 *
24	76.1	75.5	295,100 *
26	74.4	74.9	270,100 *
28	72.7	74.2	248,400 *
30	70.9	73.5	229,500 *
32	69.2	72.7	212,800 *
34	67.4	71.8	194,200
36	65.6	70.9	175,100
38	63.7	69.8	158,700
40	61.9	68.7	144,400
42	60.0	67.5	132,000
44	58.0	66.2	121,000
46	56.0	64.8	111,200
48	54.0	63.4	102,500
50	51.9	61.7	94,600
80 Ft. BOOM			
17	83.0	87.2	359,900 *
18	82.3	87.0	354,800 *
19	81.5	86.9	350,000 *
20	80.8	86.7	345,400 *
22	79.3	86.3	325,000 *
24	77.9	85.8	295,900 *
26	76.4	85.3	271,000 *
28	74.9	84.7	249,400 *
30	73.4	84.1	230,500 *
32	71.9	83.4	213,800 *
34	70.4	82.7	197,000
36	68.8	81.9	177,800
38	67.3	81.0	161,300
40	65.7	80.0	147,000
42	64.1	79.0	134,500
44	62.4	78.0	123,500
46	60.8	76.8	113,700
48	59.1	75.6	104,900
50	57.4	74.3	97,000
55	52.9	70.6	80,300

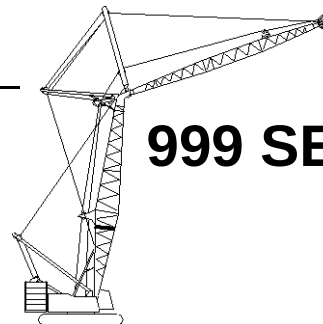
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	321,700 *
20	81.8	96.8	317,400 *
22	80.5	96.5	309,000 *
24	79.2	96.1	296,300 *
26	77.9	95.6	271,400 *
28	76.6	95.1	249,900 *
30	75.3	94.6	231,000 *
32	74.0	94.0	214,400 *
34	72.6	93.3	199,000
36	71.3	92.6	179,700
38	69.9	91.8	163,200
40	68.6	91.0	148,800
42	67.2	90.1	136,300
44	65.8	89.2	125,200
46	64.3	88.2	115,400
48	62.9	87.2	106,600
50	61.4	86.0	98,700
55	57.7	82.9	81,900
60	53.8	79.3	68,500
100 Ft. BOOM			
20	82.7	107.0	307,300 *
22	81.5	106.6	299,800 *
24	80.3	106.3	292,600 *
26	79.2	105.9	272,600 *
28	78.0	105.4	251,100 *
30	76.8	104.9	232,200 *
32	75.6	104.4	215,600 *
34	74.4	103.8	200,900 *
36	73.2	103.2	181,700
38	72.0	102.5	165,200
40	70.8	101.8	150,800
42	69.6	101.0	138,200
44	68.3	100.2	127,200
46	67.1	99.3	117,300
48	65.8	98.4	108,500
50	64.6	97.4	100,600
55	61.3	94.7	83,800
60	57.9	91.6	70,400
65	54.4	88.1	59,400

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	279,600 *
24	81.2	116.4	273,100 *
26	80.2	116.1	266,700 *
28	79.1	115.7	251,100 *
30	78.0	115.2	232,300 *
32	77.0	114.7	215,700 *
34	75.9	114.2	200,900 *
36	74.8	113.6	182,800
38	73.7	113.0	166,200
40	72.6	112.4	151,800
42	71.5	111.7	139,200
44	70.4	110.9	128,100
46	69.3	110.2	118,200
48	68.2	109.3	109,400
50	67.0	108.5	101,400
55	64.1	106.1	84,600
60	61.2	103.4	71,200
65	58.1	100.3	60,200
70	55.0	96.8	51,000
75	51.7	93.0	43,200
120 Ft. BOOM			
22	82.9	126.9	271,500 *
24	82.0	126.6	265,700 *
26	81.0	126.2	260,100 *
28	80.0	125.9	251,700 *
30	79.1	125.5	232,900 *
32	78.1	125.0	216,300 *
34	77.1	124.5	201,600 *
36	76.1	124.0	184,100
38	75.1	123.5	167,500
40	74.1	122.9	153,100
42	73.1	122.2	140,400
44	72.1	121.6	129,300
46	71.1	120.9	119,400
48	70.1	120.1	110,600
50	69.1	119.3	102,600
55	66.5	117.2	85,800
60	63.8	114.7	72,300
65	61.1	112.0	61,300
70	58.3	109.0	52,100
75	55.4	105.6	44,300
80	52.4	101.8	37,600

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	245,800 *
26	81.7	136.4	238,300 *
28	80.8	136.0	231,200 *
30	79.9	135.7	224,300 *
32	79.0	135.3	216,500 *
34	78.1	134.8	201,700 *
36	77.2	134.3	185,000
38	76.3	133.8	168,300
40	75.4	133.3	153,900
42	74.5	132.7	141,200
44	73.5	132.1	130,100
46	72.6	131.5	120,200
48	71.7	130.8	111,300
50	70.7	130.1	103,300
55	68.4	128.1	86,500
60	66.0	125.9	73,000
65	63.5	123.4	61,900
70	61.0	120.7	52,700
75	58.4	117.6	44,900
80	55.8	114.3	38,200
85	53.0	110.6	32,500
140 Ft. BOOM			
26	82.3	146.5	231,900 *
28	81.5	146.2	224,800 *
30	80.6	145.8	218,100 *
32	79.8	145.5	211,500 *
34	79.0	145.1	202,200 *
36	78.1	144.6	185,900
38	77.3	144.1	169,200
40	76.4	143.6	154,700
42	75.6	143.1	142,100
44	74.7	142.5	130,900
46	73.9	141.9	121,000
48	73.0	141.3	112,100
50	72.2	140.7	104,100
55	70.0	138.9	87,200
60	67.8	136.8	73,700
65	65.5	134.6	62,700
70	63.3	132.1	53,500
75	60.9	129.3	45,700
80	58.5	126.3	39,000
85	56.1	123.0	33,200
90	53.5	119.3	28,100

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	208,000 *
28	82.0	156.3	202,300 *
30	81.3	156.0	196,800 *
32	80.5	155.6	191,400 *
34	79.7	155.3	186,200 *
36	78.9	154.8	181,100 *
38	78.2	154.4	169,600
40	77.4	153.9	155,100
42	76.6	153.5	142,400
44	75.8	152.9	131,200
46	75.0	152.4	121,300
48	74.2	151.8	112,400
50	73.4	151.2	104,300
55	71.4	149.5	87,400
60	69.4	147.6	73,900
65	67.3	145.6	62,800
70	65.2	143.3	53,600
75	63.0	140.8	45,800
80	60.9	138.0	39,100
85	58.6	135.0	33,200
90	56.3	131.7	28,200
95	54.0	128.1	23,700
100	51.6	124.2	19,700
160 Ft. BOOM			
28	82.5	166.4	193,900 *
30	81.8	166.1	188,500 *
32	81.1	165.8	183,400 *
34	80.4	165.4	178,300 *
36	79.6	165.1	173,400 *
38	78.9	164.6	168,500 *
40	78.2	164.2	155,600
42	77.4	163.7	142,900
44	76.7	163.3	131,700
46	76.0	162.7	121,700
48	75.2	162.2	112,800
50	74.5	161.6	104,800
55	72.6	160.1	87,900
60	70.7	158.3	74,300
65	68.8	156.4	63,200

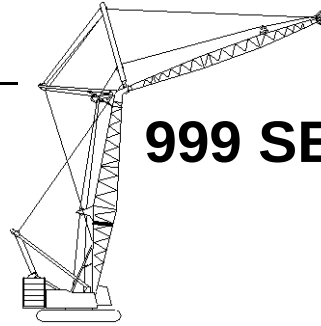
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	54,000
75	64.9	152.0	46,100
80	62.9	149.4	39,400
85	60.8	146.7	33,600
90	58.7	143.6	28,500
95	56.6	140.4	24,000
100	54.4	136.8	20,000
105	52.1	133.0	16,300 *
170 Ft. BOOM			
28	83.0	176.5	180,300 *
30	82.3	176.2	175,900 *
32	81.6	175.9	171,500 *
34	80.9	175.6	167,300 *
36	80.3	175.2	163,100 *
38	79.6	174.9	159,000 *
40	78.9	174.4	155,000 *
42	78.2	174.0	143,200
44	77.5	173.6	132,000
46	76.8	173.1	122,000
48	76.1	172.6	113,100
50	75.4	172.0	105,000
55	73.7	170.6	88,100
60	71.9	168.9	74,500
65	70.1	167.1	63,400
70	68.3	165.2	54,100
75	66.4	163.0	46,300
80	64.6	160.6	39,600
85	62.7	158.1	33,700
90	60.8	155.3	28,600
95	58.8	152.3	24,100
100	56.8	149.1	20,100
105	54.7	145.6	16,600
110	52.6	141.8	12,900 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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

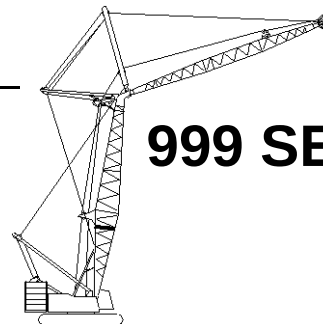
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
180 Ft. BOOM			
30	82.7	186.3	167,200 *
32	82.1	186.0	163,000 *
34	81.4	185.7	159,000 *
36	80.8	185.4	154,900 *
38	80.2	185.0	151,000 *
40	79.5	184.6	147,200 *
42	78.9	184.2	143,500
44	78.2	183.8	132,300
46	77.6	183.4	122,300
48	76.9	182.9	113,400
50	76.2	182.4	105,300
55	74.6	181.0	88,300
60	72.9	179.5	74,700
65	71.2	177.8	63,600
70	69.5	175.9	54,300
75	67.8	173.9	46,500
80	66.1	171.7	39,800
85	64.3	169.3	33,900
90	62.5	166.8	28,800
95	60.7	164.0	24,300
100	58.9	161.0	20,300
105	57.0	157.8	16,700
110	55.0	154.3	13,500

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	118,000 *
46	78.2	193.6	118,000 *
48	77.6	193.2	113,400 *
50	77.0	192.7	106,100
55	75.4	191.4	89,000
60	73.9	189.9	75,400
65	72.3	188.4	64,200
70	70.7	186.6	55,000
75	69.1	184.7	47,100
80	67.4	182.7	40,300
85	65.8	180.4	34,500
90	64.1	178.0	29,400
95	62.4	175.4	24,900
100	60.7	172.6	20,900
105	58.9	169.6	17,300
110	57.1	166.4	14,000
115	55.3	163.0	11,100

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	370,100 *
18	81.1	76.9	365,900 *
19	80.3	76.7	361,900 *
20	79.5	76.5	356,100 *
22	77.8	76.0	321,700 *
24	76.1	75.5	292,500 *
26	74.4	74.9	267,600 *
28	72.7	74.2	245,900 *
30	70.9	73.5	227,000 *
32	69.2	72.7	210,300 *
34	67.4	71.8	190,800 *
36	65.6	70.9	171,800 *
38	63.7	69.8	155,500 *
40	61.9	68.7	141,300 *
42	60.0	67.5	128,900 *
44	58.0	66.2	118,000 *
46	56.0	64.8	108,300 *
48	54.0	63.4	99,600 *
50	51.9	61.7	91,800 *
80 Ft. BOOM			
17	83.0	87.2	357,300 *
18	82.3	87.0	352,200 *
19	81.5	86.9	347,300 *
20	80.8	86.7	342,700 *
22	79.3	86.3	322,600 *
24	77.9	85.8	293,500 *
26	76.4	85.3	268,600 *
28	74.9	84.7	247,100 *
30	73.4	84.1	228,200 *
32	71.9	83.4	211,500 *
34	70.4	82.7	193,800 *
36	68.8	81.9	174,700 *
38	67.3	81.0	158,300 *
40	65.7	80.0	144,100 *
42	64.1	79.0	131,700 *
44	62.4	78.0	120,700 *
46	60.8	76.8	110,900 *
48	59.1	75.6	102,200 *
50	57.4	74.3	94,300 *
55	52.9	70.6	77,800 *

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
90 Ft. BOOM			
19	82.5	97.0	319,300 *
20	81.8	96.8	315,000 *
22	80.5	96.5	306,600 *
24	79.2	96.1	294,000 *
26	77.9	95.6	269,200 *
28	76.6	95.1	247,700 *
30	75.3	94.6	228,800 *
32	74.0	94.0	212,200 *
34	72.6	93.3	196,000 *
36	71.3	92.6	176,800 *
38	69.9	91.8	160,300 *
40	68.6	91.0	146,100 *
42	67.2	90.1	133,600 *
44	65.8	89.2	122,600 *
46	64.3	88.2	112,800 *
48	62.9	87.2	104,100 *
50	61.4	86.0	96,200 *
55	57.7	82.9	79,500 *
60	53.8	79.3	66,200 *
100 Ft. BOOM			
20	82.7	107.0	305,000 *
22	81.5	106.6	297,400 *
24	80.3	106.3	290,100 *
26	79.2	105.9	270,400 *
28	78.0	105.4	248,900 *
30	76.8	104.9	230,100 *
32	75.6	104.4	213,600 *
34	74.4	103.8	198,200 *
36	73.2	103.2	179,000 *
38	72.0	102.5	162,500 *
40	70.8	101.8	148,200 *
42	69.6	101.0	135,700 *
44	68.3	100.2	124,700 *
46	67.1	99.3	114,900 *
48	65.8	98.4	106,100 *
50	64.6	97.4	98,200 *
55	61.3	94.7	81,600 *
60	57.9	91.6	68,200 *
65	54.4	88.1	57,300 *

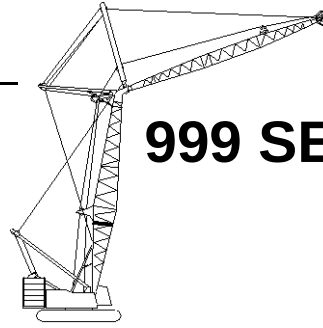
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
110 Ft. BOOM			
22	82.3	116.8	277,500 *
24	81.2	116.4	271,000 *
26	80.2	116.1	264,500 *
28	79.1	115.7	249,000 *
30	78.0	115.2	230,200 *
32	77.0	114.7	213,700 *
34	75.9	114.2	199,000 *
36	74.8	113.6	180,200 *
38	73.7	113.0	163,700 *
40	72.6	112.4	149,400 *
42	71.5	111.7	136,800 *
44	70.4	110.9	125,800 *
46	69.3	110.2	115,900 *
48	68.2	109.3	107,100 *
50	67.0	108.5	99,200 *
55	64.1	106.1	82,500 *
60	61.2	103.4	69,100 *
65	58.1	100.3	58,200 *
70	55.0	96.8	49,000 *
75	51.7	93.0	41,300 *
120 Ft. BOOM			
22	82.9	126.9	269,600 *
24	82.0	126.6	263,700 *
26	81.0	126.2	258,100 *
28	80.0	125.9	249,700 *
30	79.1	125.5	231,000 *
32	78.1	125.0	214,400 *
34	77.1	124.5	199,700 *
36	76.1	124.0	181,600 *
38	75.1	123.5	165,000 *
40	74.1	122.9	150,700 *
42	73.1	122.2	138,100 *
44	72.1	121.6	127,000 *
46	71.1	120.9	117,200 *
48	70.1	120.1	108,400 *
50	69.1	119.3	100,400 *
55	66.5	117.2	83,700 *
60	63.8	114.7	70,300 *
65	61.1	112.0	59,300 *
70	58.3	109.0	50,200 *
75	55.4	105.6	42,500 *
80	52.4	101.8	35,800 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	244,400 *
26	81.7	136.4	236,900 *
28	80.8	136.0	229,700 *
30	79.9	135.7	222,800 *
32	79.0	135.3	214,600 *
34	78.1	134.8	199,900 *
36	77.2	134.3	182,500
38	76.3	133.8	165,900
40	75.4	133.3	151,600
42	74.5	132.7	139,000
44	73.5	132.1	127,900
46	72.6	131.5	118,000
48	71.7	130.8	109,200
50	70.7	130.1	101,300
55	68.4	128.1	84,500
60	66.0	125.9	71,100
65	63.5	123.4	60,100
70	61.0	120.7	50,900
75	58.4	117.6	43,200
80	55.8	114.3	36,500
85	53.0	110.6	30,800
140 Ft. BOOM			
26	82.3	146.5	230,400 *
28	81.5	146.2	223,400 *
30	80.6	145.8	216,600 *
32	79.8	145.5	210,000 *
34	79.0	145.1	200,400 *
36	78.1	144.6	183,500
38	77.3	144.1	166,900
40	76.4	143.6	152,500
42	75.6	143.1	139,900
44	74.7	142.5	128,800
46	73.9	141.9	118,900
48	73.0	141.3	110,100
50	72.2	140.7	102,100
55	70.0	138.9	85,300
60	67.8	136.8	71,900
65	65.5	134.6	60,900
70	63.3	132.1	51,700
75	60.9	129.3	44,000
80	58.5	126.3	37,300
85	56.1	123.0	31,600
90	53.5	119.3	26,500

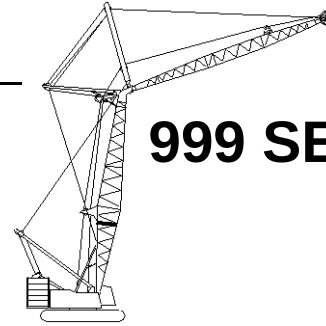
Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
150 Ft. BOOM			
26	82.8	156.6	206,600 *
28	82.0	156.3	200,900 *
30	81.3	156.0	195,400 *
32	80.5	155.6	190,000 *
34	79.7	155.3	184,800 *
36	78.9	154.8	179,600 *
38	78.2	154.4	167,400
40	77.4	153.9	152,900
42	76.6	153.5	140,300
44	75.8	152.9	129,200
46	75.0	152.4	119,300
48	74.2	151.8	110,400
50	73.4	151.2	102,400
55	71.4	149.5	85,600
60	69.4	147.6	72,100
65	67.3	145.6	61,100
70	65.2	143.3	51,900
75	63.0	140.8	44,100
80	60.9	138.0	37,400
85	58.6	135.0	31,700
90	56.3	131.7	26,600
95	54.0	128.1	22,100
100	51.6	124.2	17,800 *
160 Ft. BOOM			
28	82.5	166.4	192,500 *
30	81.8	166.1	187,100 *
32	81.1	165.8	181,900 *
34	80.4	165.4	176,900 *
36	79.6	165.1	171,900 *
38	78.9	164.6	167,100 *
40	78.2	164.2	153,500
42	77.4	163.7	140,900
44	76.7	163.3	129,700
46	76.0	162.7	119,800
48	75.2	162.2	110,900
50	74.5	161.6	102,900
55	72.6	160.1	86,100
60	70.7	158.3	72,600
65	68.8	156.4	61,500

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds
160 Ft. BOOM			
70	66.8	154.3	52,300
75	64.9	152.0	44,500
80	62.9	149.4	37,900
85	60.8	146.7	32,100
90	58.7	143.6	27,000
95	56.6	140.4	22,500
100	54.4	136.8	18,600
105	52.1	133.0	14,500 *
170 Ft. BOOM			
28	83.0	176.5	179,000 *
30	82.3	176.2	174,500 *
32	81.6	175.9	170,200 *
34	80.9	175.6	166,000 *
36	80.3	175.2	161,700 *
38	79.6	174.9	157,600 *
40	78.9	174.4	153,700 *
42	78.2	174.0	141,200
44	77.5	173.6	130,000
46	76.8	173.1	120,100
48	76.1	172.6	111,200
50	75.4	172.0	103,200
55	73.7	170.6	86,300
60	71.9	168.9	72,800
65	70.1	167.1	61,700
70	68.3	165.2	52,500
75	66.4	163.0	44,700
80	64.6	160.6	38,000
85	62.7	158.1	32,200
90	60.8	155.3	27,200
95	58.8	152.3	22,700
100	56.8	149.1	18,700
105	54.7	145.6	15,200
110	52.6	141.8	11,100 *

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
219,600 Lb. Crane Counterweight
80,000 Lb. Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	165,800 *
32	82.1	186.0	161,700 *
34	81.4	185.7	157,600 *
36	80.8	185.4	153,500 *
38	80.2	185.0	149,600 *
40	79.5	184.6	145,800 *
42	78.9	184.2	141,600
44	78.2	183.8	130,400
46	77.6	183.4	120,400
48	76.9	182.9	111,500
50	76.2	182.4	103,500
55	74.6	181.0	86,600
60	72.9	179.5	73,100
65	71.2	177.8	62,000
70	69.5	175.9	52,800
75	67.8	173.9	45,000
80	66.1	171.7	38,300
85	64.3	169.3	32,500
90	62.5	166.8	27,400
95	60.7	164.0	22,900
100	58.9	161.0	18,900
105	57.0	157.8	15,400
110	55.0	154.3	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	118,000 *
44	78.8	194.0	118,000 *
46	78.2	193.6	116,200 *
48	77.6	193.2	111,200 *
50	77.0	192.7	104,300
55	75.4	191.4	87,300
60	73.9	189.9	73,800
65	72.3	188.4	62,700
70	70.7	186.6	53,400
75	69.1	184.7	45,600
80	67.4	182.7	38,900
85	65.8	180.4	33,100
90	64.1	178.0	28,000
95	62.4	175.4	23,500
100	60.7	172.6	19,500
105	58.9	169.6	15,900
110	57.1	166.4	12,700