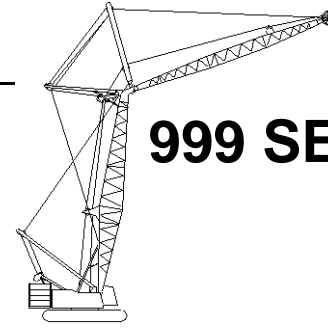




Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2



Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

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

57.9m 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 57.9m boom length with intermediate fall in luffing jib. Additionally, 57.9m 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 1 280 kg 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**.

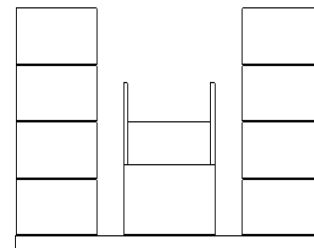
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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

MACHINE EQUIPMENT: Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps or four 35 mm boom pendants, 8 part luffing jib hoist reeving, two 38 mm luffing jib pendants and backstays, 83 730 kg crane counterweight and two 9 980 kg carbody counterweights.

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

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



83 730 kg Crane Counterweight
8 Side Boxes - 1 Center Box

Luffing Jib Position During Operation	
Luffing Jib Length - Meters	Boom To Luffing Jib Angle
21.3	140 Degrees
24.4 - 27.4	150 Degrees
30.5 - 36.6	160 Degrees
39.6 - 51.8	168 Degrees

Intermediate Fall Deduct

Deduct 1 180 kg from capacities when luffing jib is equipped with intermediate fall.

Boom Catwalks Deduct

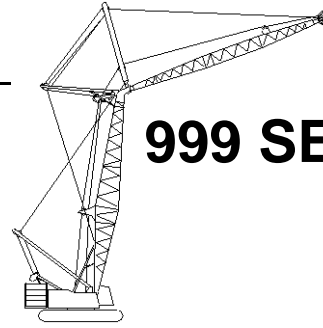
Deduct 200 kg from capacities when boom catwalks are attached.



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



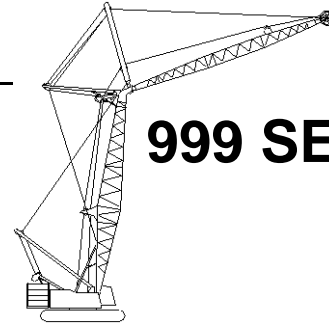
999 SERIES 2

21.3m (70 Ft.) Luffing Jib, Attached at 140 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	178 700 *
5.0	82.5	23.5	174 400 *
5.5	81.1	23.4	158 100 *
6.0	79.7	23.3	144 400 *
6.5	78.4	23.2	132 700 *
7.0	77.0	23.1	122 500 *
7.5	75.6	23.0	113 600 *
8.0	74.2	22.8	105 700 *
8.5	72.8	22.6	98 700 *
9.0	71.3	22.5	92 400 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	167 500 *
5.5	82.2	26.5	157 900 *
6.0	81.0	26.4	144 300 *
6.5	79.8	26.3	132 600 *
7.0	78.6	26.2	122 400 *
7.5	77.4	26.1	113 500 *
8.0	76.2	26.0	105 600 *
8.5	75.0	25.8	98 600 *
9.0	73.8	25.7	92 300 *
10.0	71.3	25.3	81 400 *
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	149 400 *
6.0	82.0	29.5	144 200 *
6.5	81.0	29.4	132 600 *
7.0	79.9	29.3	122 300 *
7.5	78.9	29.2	113 400 *
8.0	77.8	29.1	105 500 *
8.5	76.7	29.0	98 600 *
9.0	75.6	28.9	92 300 *
10.0	73.4	28.6	81 500 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	141 900 *
6.5	81.9	32.5	132 800 *
7.0	80.9	32.5	122 300 *
7.5	80.0	32.4	113 400 *
8.0	79.0	32.3	105 600 *
8.5	78.1	32.1	98 600 *
9.0	77.1	32.0	92 300 *
10.0	75.1	31.7	81 600 *
11.0	73.2	31.4	70 700 *
12.0	71.2	31.1	61 000 *
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	128 000 *
7.0	81.8	35.5	122 400 *
7.5	80.9	35.5	113 300 *
8.0	80.0	35.4	105 400 *
8.5	79.2	35.3	98 400 *
9.0	78.3	35.2	92 200 *
10.0	76.5	34.9	81 400 *
11.0	74.8	34.6	70 900 *
12.0	73.0	34.3	61 200 *
13.0	71.2	34.0	53 400 *
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	125 000 *
7.0	82.5	38.6	120 800 *
7.5	81.7	38.6	113 500 *
8.0	80.9	38.5	105 300 *
8.5	80.1	38.4	98 300 *
9.0	79.3	38.3	92 100 *
10.0	77.7	38.0	81 300 *
11.0	76.1	37.8	71 000 *
12.0	74.4	37.5	61 200 *
13.0	72.8	37.2	53 500 *
14.0	71.1	36.8	47 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	109 400 *
7.5	82.3	41.6	108 500 *
8.0	81.6	41.6	105 600 *
8.5	80.9	41.5	98 500 *
9.0	80.1	41.4	92 000 *
10.0	78.6	41.2	81 300 *
11.0	77.2	40.9	71 200 *
12.0	75.7	40.7	61 400 *
13.0	74.2	40.4	53 600 *
14.0	72.6	40.1	47 200 *
15.0	71.1	39.7	41 900 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	101 200 *
8.0	82.2	44.6	100 800 *
8.5	81.5	44.6	97 900 *
9.0	80.8	44.5	92 300 *
10.0	79.5	44.3	81 100 *
11.0	78.1	44.1	71 200 *
12.0	76.7	43.8	61 500 *
13.0	75.3	43.6	53 600 *
14.0	73.9	43.3	47 300 *
15.0	72.5	43.0	42 000 *
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	90 300 *
8.0	82.7	47.7	90 000 *
8.5	82.1	47.6	88 200 *
9.0	81.4	47.6	86 400 *
10.0	80.2	47.4	81 300 *
11.0	78.9	47.2	71 300 *
12.0	77.6	47.0	61 500 *
13.0	76.3	46.7	53 600 *
14.0	75.0	46.4	47 200 *
15.0	73.7	46.2	41 900 *
16.0	72.4	45.8	37 400 *



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
 ANSI B30.5
 Requirements**

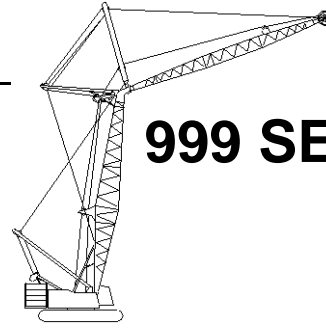
21.3m (70 Ft.) Luffing Jib, Attached at 140 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	83 800 *
9.0	82.0	50.7	82 200 *
10.0	80.8	50.5	78 800 *
11.0	79.6	50.3	71 300
12.0	78.4	50.1	61 400
13.0	77.2	49.9	53 600
14.0	76.0	49.6	47 200
15.0	74.8	49.3	41 900
16.0	73.5	49.0	37 300
18.0	71.1	48.4	30 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	76 600 *
9.0	82.5	53.7	75 400 *
10.0	81.3	53.6	72 900 *
11.0	80.2	53.4	70 200
12.0	79.1	53.2	61 600
13.0	78.0	53.0	53 600
14.0	76.8	52.8	47 200
15.0	75.7	52.5	41 900
16.0	74.5	52.2	37 300
18.0	72.2	51.6	30 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	70 600 *
10.0	81.8	56.7	68 600 *
11.0	80.8	56.5	66 200 *
12.0	79.7	56.3	61 800
13.0	78.6	56.1	53 600
14.0	77.6	55.9	47 200
15.0	76.5	55.6	41 800
16.0	75.4	55.4	37 200
18.0	73.2	54.8	30 000
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 700
14.0	78.2	59.0	47 400
15.0	77.2	58.8	42 000
16.0	76.2	58.5	37 400
18.0	74.2	58.0	30 200
20.0	72.1	57.3	24 600



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

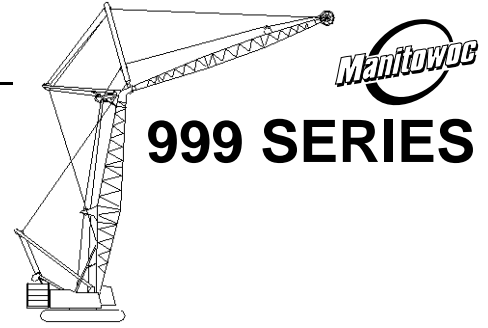
**Meets
ANSI B30.5
Requirements**

24.4m (80 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	178 800 *
5.0	82.5	23.5	174 400 *
5.5	81.1	23.4	158 100 *
6.0	79.7	23.3	144 300 *
6.5	78.4	23.2	132 400 *
7.0	77.0	23.1	122 100 *
7.5	75.6	23.0	113 200 *
8.0	74.2	22.8	105 300 *
8.5	72.8	22.6	98 200 *
9.0	71.3	22.5	91 900 *
10.0	68.4	22.1	80 700
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	167 900 *
5.5	82.2	26.5	158 000 *
6.0	81.0	26.4	144 200 *
6.5	79.8	26.3	132 400 *
7.0	78.6	26.2	122 100 *
7.5	77.4	26.1	113 100 *
8.0	76.2	26.0	105 200 *
8.5	75.0	25.8	98 200 *
9.0	73.8	25.7	91 800 *
10.0	71.3	25.3	80 900
11.0	68.8	24.9	69 600
12.0	66.2	24.5	59 900
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	149 700 *
6.0	82.0	29.5	144 300 *
6.5	81.0	29.4	132 400 *
7.0	79.9	29.3	122 200 *
7.5	78.9	29.2	113 200 *
8.0	77.8	29.1	105 300 *
8.5	76.7	29.0	98 200 *
9.0	75.6	28.9	91 900 *
10.0	73.4	28.6	81 000
11.0	71.2	28.2	70 000
12.0	69.0	27.8	60 300
13.0	66.7	27.4	52 500
14.0	64.4	26.9	46 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	141 900 *
6.5	81.9	32.5	132 700 *
7.0	80.9	32.5	122 200 *
7.5	80.0	32.4	113 300 *
8.0	79.0	32.3	105 400 *
8.5	78.1	32.1	98 300 *
9.0	77.1	32.0	92 000 *
10.0	75.1	31.7	81 200 *
11.0	73.2	31.4	70 300
12.0	71.2	31.1	60 600
13.0	69.2	30.7	52 800
14.0	67.1	30.3	46 400
15.0	65.1	29.8	41 100
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	128 000 *
7.0	81.8	35.5	122 300 *
7.5	80.9	35.5	113 100 *
8.0	80.0	35.4	105 200 *
8.5	79.2	35.3	98 200 *
9.0	78.3	35.2	91 900 *
10.0	76.5	34.9	81 000 *
11.0	74.8	34.6	70 600
12.0	73.0	34.3	60 800
13.0	71.2	34.0	53 000
14.0	69.3	33.6	46 600
15.0	67.5	33.2	41 300
16.0	65.6	32.7	36 800
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	125 700 *
7.0	82.5	38.6	121 200 *
7.5	81.7	38.6	113 300 *
8.0	80.9	38.5	105 200 *
8.5	80.1	38.4	98 100 *
9.0	79.3	38.3	91 800 *
10.0	77.7	38.0	81 000 *
11.0	76.1	37.8	70 700
12.0	74.4	37.5	60 900
13.0	72.8	37.2	53 100
14.0	71.1	36.8	46 700
15.0	69.5	36.5	41 400
16.0	67.8	36.1	36 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	110 500 *
7.5	82.3	41.6	109 200 *
8.0	81.6	41.6	105 400 *
8.5	80.9	41.5	98 300 *
9.0	80.1	41.4	91 800 *
10.0	78.6	41.2	81 000 *
11.0	77.2	40.9	70 900
12.0	75.7	40.7	61 100
13.0	74.2	40.4	53 300
14.0	72.6	40.1	46 900
15.0	71.1	39.7	41 500
16.0	69.6	39.4	37 000
18.0	66.4	38.5	29 800
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	102 300 *
8.0	82.2	44.6	101 700 *
8.5	81.5	44.6	97 800 *
9.0	80.8	44.5	92 100 *
10.0	79.5	44.3	80 900 *
11.0	78.1	44.1	71 100
12.0	76.7	43.8	61 200
13.0	75.3	43.6	53 400
14.0	73.9	43.3	46 900
15.0	72.5	43.0	41 600
16.0	71.1	42.6	37 100
18.0	68.2	41.8	29 800
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	91 300 *
8.0	82.7	47.7	91 100 *
8.5	82.1	47.6	89 200 *
9.0	81.4	47.6	87 300 *
10.0	80.2	47.4	81 000 *
11.0	78.9	47.2	71 100
12.0	77.6	47.0	61 200
13.0	76.3	46.7	53 400
14.0	75.0	46.4	46 900
15.0	73.7	46.2	41 600
16.0	72.4	45.8	37 000
18.0	69.7	45.1	29 800
20.0	67.0	44.3	24 200



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

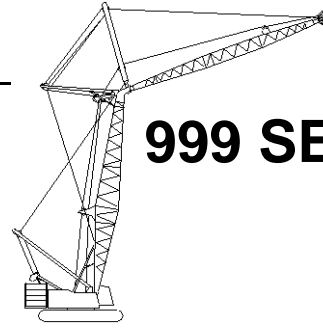
24.4m (80 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	84 900 *
9.0	82.0	50.7	83 300 *
10.0	80.8	50.5	79 400 *
11.0	79.6	50.3	71 200
12.0	78.4	50.1	61 200
13.0	77.2	49.9	53 400
14.0	76.0	49.6	46 900
15.0	74.8	49.3	41 600
16.0	73.5	49.0	37 000
18.0	71.1	48.4	29 700
20.0	68.5	47.6	24 200
22.0	66.0	46.7	19 800
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	77 800 *
9.0	82.5	53.7	76 500 *
10.0	81.3	53.6	73 800 *
11.0	80.2	53.4	71 100
12.0	79.1	53.2	61 300
13.0	78.0	53.0	53 400
14.0	76.8	52.8	46 900
15.0	75.7	52.5	41 600
16.0	74.5	52.2	37 000
18.0	72.2	51.6	29 800
20.0	69.9	50.9	24 200
22.0	67.5	50.1	19 800
24.0	65.1	49.2	16 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	71 800 *
10.0	81.8	56.7	69 700 *
11.0	80.8	56.5	67 200
12.0	79.7	56.3	61 700
13.0	78.6	56.1	53 300
14.0	77.6	55.9	46 900
15.0	76.5	55.6	41 500
16.0	75.4	55.4	36 900
18.0	73.2	54.8	29 700
20.0	71.0	54.1	24 100
22.0	68.8	53.4	19 700
24.0	66.5	52.5	16 200
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 600
14.0	78.2	59.0	47 100
15.0	77.2	58.8	41 700
16.0	76.2	58.5	37 100
18.0	74.2	58.0	29 800
20.0	72.1	57.3	24 300
22.0	70.0	56.6	19 900
24.0	67.8	55.8	16 300
26.0	65.7	54.9	13 400



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

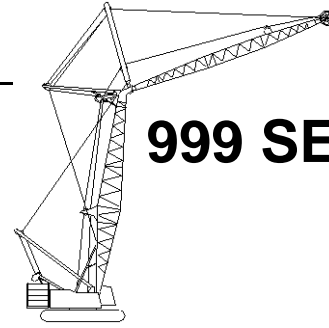
**Meets
ANSI B30.5
Requirements**

27.4m (90 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	176 800 *
5.0	82.5	23.5	172 500 *
5.5	81.1	23.4	156 200 *
6.0	79.7	23.3	142 500 *
6.5	78.4	23.2	130 700 *
7.0	77.0	23.1	120 500 *
7.5	75.6	23.0	111 600 *
8.0	74.2	22.8	103 700 *
8.5	72.8	22.6	96 700 *
9.0	71.3	22.5	90 400 *
10.0	68.4	22.1	79 300
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	166 100 *
5.5	82.2	26.5	156 100 *
6.0	81.0	26.4	142 500 *
6.5	79.8	26.3	130 700 *
7.0	78.6	26.2	120 500 *
7.5	77.4	26.1	111 600 *
8.0	76.2	26.0	103 700 *
8.5	75.0	25.8	96 700 *
9.0	73.8	25.7	90 400 *
10.0	71.3	25.3	79 500
11.0	68.8	24.9	68 200
12.0	66.2	24.5	58 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	148 000 *
6.0	82.0	29.5	142 600 *
6.5	81.0	29.4	130 700 *
7.0	79.9	29.3	120 500 *
7.5	78.9	29.2	111 600 *
8.0	77.8	29.1	103 800 *
8.5	76.7	29.0	96 700 *
9.0	75.6	28.9	90 500 *
10.0	73.4	28.6	79 700
11.0	71.2	28.2	68 700
12.0	69.0	27.8	59 100
13.0	66.7	27.4	51 300
14.0	64.4	26.9	45 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	140 200 *
6.5	81.9	32.5	131 100 *
7.0	80.9	32.5	120 700 *
7.5	80.0	32.4	111 800 *
8.0	79.0	32.3	103 900 *
8.5	78.1	32.1	96 900 *
9.0	77.1	32.0	90 600 *
10.0	75.1	31.7	79 900 *
11.0	73.2	31.4	69 100
12.0	71.2	31.1	59 400
13.0	69.2	30.7	51 700
14.0	67.1	30.3	45 400
15.0	65.1	29.8	40 200
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	126 400 *
7.0	81.8	35.5	120 800 *
7.5	80.9	35.5	111 700 *
8.0	80.0	35.4	103 800 *
8.5	79.2	35.3	96 800 *
9.0	78.3	35.2	90 500 *
10.0	76.5	34.9	79 800 *
11.0	74.8	34.6	69 300
12.0	73.0	34.3	59 600
13.0	71.2	34.0	51 900
14.0	69.3	33.6	45 600
15.0	67.5	33.2	40 300
16.0	65.6	32.7	35 800
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	124 400 *
7.0	82.5	38.6	119 800 *
7.5	81.7	38.6	111 800 *
8.0	80.9	38.5	103 700 *
8.5	80.1	38.4	96 700 *
9.0	79.3	38.3	90 500 *
10.0	77.7	38.0	79 700 *
11.0	76.1	37.8	69 500
12.0	74.4	37.5	59 800
13.0	72.8	37.2	52 100
14.0	71.1	36.8	45 700
15.0	69.5	36.5	40 400
16.0	67.8	36.1	35 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	108 900 *
7.5	82.3	41.6	107 700 *
8.0	81.6	41.6	104 100 *
8.5	80.9	41.5	96 900 *
9.0	80.1	41.4	90 500 *
10.0	78.6	41.2	79 800 *
11.0	77.2	40.9	69 700
12.0	75.7	40.7	60 000
13.0	74.2	40.4	52 200
14.0	72.6	40.1	45 900
15.0	71.1	39.7	40 600
16.0	69.6	39.4	36 100
18.0	66.4	38.5	29 000
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	100 700 *
8.0	82.2	44.6	100 200 *
8.5	81.5	44.6	96 500 *
9.0	80.8	44.5	90 800 *
10.0	79.5	44.3	79 700 *
11.0	78.1	44.1	69 900
12.0	76.7	43.8	60 100
13.0	75.3	43.6	52 300
14.0	73.9	43.3	46 000
15.0	72.5	43.0	40 700
16.0	71.1	42.6	36 200
18.0	68.2	41.8	29 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	89 900 *
8.0	82.7	47.7	89 600 *
8.5	82.1	47.6	87 800 *
9.0	81.4	47.6	85 900 *
10.0	80.2	47.4	79 800 *
11.0	78.9	47.2	70 000
12.0	77.6	47.0	60 200
13.0	76.3	46.7	52 400
14.0	75.0	46.4	46 000
15.0	73.7	46.2	40 700
16.0	72.4	45.8	36 200
18.0	69.7	45.1	29 000
20.0	67.0	44.3	23 500



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

27.4m (90 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	83 400 *
9.0	82.0	50.7	81 800 *
10.0	80.8	50.5	78 100 *
11.0	79.6	50.3	70 000
12.0	78.4	50.1	60 200
13.0	77.2	49.9	52 400
14.0	76.0	49.6	46 000
15.0	74.8	49.3	40 700
16.0	73.5	49.0	36 100
18.0	71.1	48.4	28 900
20.0	68.5	47.6	23 500
22.0	66.0	46.7	19 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	76 300 *
9.0	82.5	53.7	75 100 *
10.0	81.3	53.6	72 500 *
11.0	80.2	53.4	69 700
12.0	79.1	53.2	60 300
13.0	78.0	53.0	52 400
14.0	76.8	52.8	46 000
15.0	75.7	52.5	40 700
16.0	74.5	52.2	36 200
18.0	72.2	51.6	29 000
20.0	69.9	50.9	23 500
22.0	67.5	50.1	19 200
24.0	65.1	49.2	15 600

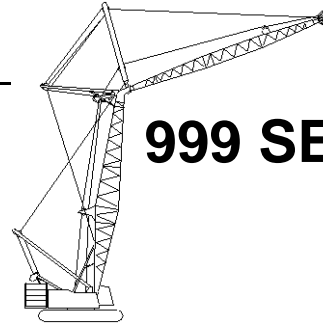
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	70 400 *
10.0	81.8	56.7	68 300 *
11.0	80.8	56.5	65 900
12.0	79.7	56.3	60 700
13.0	78.6	56.1	52 400
14.0	77.6	55.9	46 000
15.0	76.5	55.6	40 600
16.0	75.4	55.4	36 100
18.0	73.2	54.8	28 900
20.0	71.0	54.1	23 400
22.0	68.8	53.4	19 100
24.0	66.5	52.5	15 500
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 300
14.0	78.2	59.0	46 200
15.0	77.2	58.8	40 900
16.0	76.2	58.5	36 300
18.0	74.2	58.0	29 100
20.0	72.1	57.3	23 600
22.0	70.0	56.6	19 200
24.0	67.8	55.8	15 700
26.0	65.7	54.9	12 800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



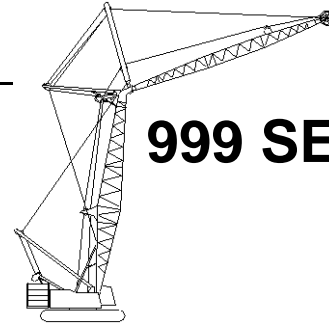
999 SERIES 2

30.5m (100 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	178 200 *
5.0	82.5	23.5	173 800 *
5.5	81.1	23.4	157 300 *
6.0	79.7	23.3	143 400 *
6.5	78.4	23.2	131 400 *
7.0	77.0	23.1	121 100 *
7.5	75.6	23.0	112 000 *
8.0	74.2	22.8	104 000 *
8.5	72.8	22.6	96 900 *
9.0	71.3	22.5	90 500 *
10.0	68.4	22.1	79 300
11.0	65.5	21.6	67 600
12.0	62.5	21.1	57 900
13.0	59.3	20.5	50 200
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	167 500 *
5.5	82.2	26.5	157 300 *
6.0	81.0	26.4	143 500 *
6.5	79.8	26.3	131 500 *
7.0	78.6	26.2	121 200 *
7.5	77.4	26.1	112 200 *
8.0	76.2	26.0	104 100 *
8.5	75.0	25.8	97 000 *
9.0	73.8	25.7	90 600 *
10.0	71.3	25.3	79 600
11.0	68.8	24.9	68 300
12.0	66.2	24.5	58 500
13.0	63.5	24.0	50 800
14.0	60.9	23.4	44 400
15.0	58.1	22.8	39 100
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	149 100 *
6.0	82.0	29.5	143 700 *
6.5	81.0	29.4	131 700 *
7.0	79.9	29.3	121 300 *
7.5	78.9	29.2	112 300 *
8.0	77.8	29.1	104 300 *
8.5	76.7	29.0	97 200 *
9.0	75.6	28.9	90 800 *
10.0	73.4	28.6	79 900 *
11.0	71.2	28.2	68 900
12.0	69.0	27.8	59 100
13.0	66.7	27.4	51 300
14.0	64.4	26.9	44 900
15.0	62.0	26.4	39 500
16.0	59.6	25.8	35 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	141 300 *
6.5	81.9	32.5	132 100 *
7.0	80.9	32.5	121 500 *
7.5	80.0	32.4	112 400 *
8.0	79.0	32.3	104 500 *
8.5	78.1	32.1	97 400 *
9.0	77.1	32.0	91 000 *
10.0	75.1	31.7	80 100 *
11.0	73.2	31.4	69 300
12.0	71.2	31.1	59 500
13.0	69.2	30.7	51 700
14.0	67.1	30.3	45 300
15.0	65.1	29.8	40 000
16.0	62.9	29.3	35 500
18.0	58.6	28.1	28 200
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	127 400 *
7.0	81.8	35.5	121 700 *
7.5	80.9	35.5	112 400 *
8.0	80.0	35.4	104 400 *
8.5	79.2	35.3	97 300 *
9.0	78.3	35.2	91 000 *
10.0	76.5	34.9	80 100 *
11.0	74.8	34.6	69 700
12.0	73.0	34.3	59 800
13.0	71.2	34.0	51 900
14.0	69.3	33.6	45 500
15.0	67.5	33.2	40 200
16.0	65.6	32.7	35 700
18.0	61.7	31.7	28 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	126 300 *
7.0	82.5	38.6	121 100 *
7.5	81.7	38.6	112 500 *
8.0	80.9	38.5	104 400 *
8.5	80.1	38.4	97 300 *
9.0	79.3	38.3	91 000 *
10.0	77.7	38.0	80 100 *
11.0	76.1	37.8	69 900
12.0	74.4	37.5	60 000
13.0	72.8	37.2	52 200
14.0	71.1	36.8	45 700
15.0	69.5	36.5	40 400
16.0	67.8	36.1	35 800
18.0	64.3	35.1	28 600
20.0	60.7	34.0	23 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	111 300 *
7.5	82.3	41.6	109 600 *
8.0	81.6	41.6	104 700 *
8.5	80.9	41.5	97 500 *
9.0	80.1	41.4	91 000 *
10.0	78.6	41.2	80 100 *
11.0	77.2	40.9	70 200
12.0	75.7	40.7	60 300
13.0	74.2	40.4	52 400
14.0	72.6	40.1	46 000
15.0	71.1	39.7	40 600
16.0	69.6	39.4	36 100
18.0	66.4	38.5	28 800
20.0	63.2	37.5	23 200
22.0	59.9	36.4	18 900
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	103 100 *
8.0	82.2	44.6	102 400 *
8.5	81.5	44.6	97 200 *
9.0	80.8	44.5	91 200 *
10.0	79.5	44.3	80 100 *
11.0	78.1	44.1	70 300
12.0	76.7	43.8	60 400
13.0	75.3	43.6	52 500
14.0	73.9	43.3	46 100
15.0	72.5	43.0	40 700
16.0	71.1	42.6	36 100
18.0	68.2	41.8	28 900
20.0	65.3	40.9	23 300
22.0	62.2	39.9	19 000
24.0	59.1	38.7	15 400
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	92 300 *
8.0	82.7	47.7	92 000 *
8.5	82.1	47.6	90 000 *
9.0	81.4	47.6	88 100 *
10.0	80.2	47.4	80 100 *
11.0	78.9	47.2	70 500
12.0	77.6	47.0	60 500
13.0	76.3	46.7	52 600
14.0	75.0	46.4	46 200
15.0	73.7	46.2	40 700
16.0	72.4	45.8	36 200
18.0	69.7	45.1	28 900
20.0	67.0	44.3	23 300
22.0	64.3	43.3	19 000
24.0	61.4	42.3	15 400



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

30.5m (100 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	85 900 *
9.0	82.0	50.7	84 200 *
10.0	80.8	50.5	79 800 *
11.0	79.6	50.3	70 500
12.0	78.4	50.1	60 600
13.0	77.2	49.9	52 700
14.0	76.0	49.6	46 200
15.0	74.8	49.3	40 800
16.0	73.5	49.0	36 200
18.0	71.1	48.4	28 900
20.0	68.5	47.6	23 300
22.0	66.0	46.7	18 900
24.0	63.4	45.7	15 400
26.0	60.7	44.6	12 400
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	78 800 *
9.0	82.5	53.7	77 500 *
10.0	81.3	53.6	74 600 *
11.0	80.2	53.4	70 700
12.0	79.1	53.2	60 600
13.0	78.0	53.0	52 700
14.0	76.8	52.8	46 200
15.0	75.7	52.5	40 800
16.0	74.5	52.2	36 300
18.0	72.2	51.6	28 900
20.0	69.9	50.9	23 400
22.0	67.5	50.1	19 000
24.0	65.1	49.2	15 400
26.0	62.6	48.1	12 400
28.0	60.0	47.0	10 000

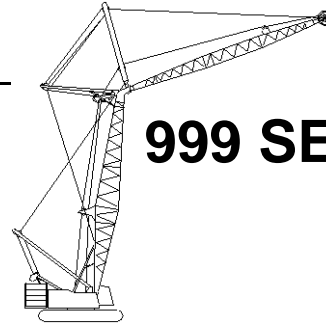
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	72 900 *
10.0	81.8	56.7	70 700 *
11.0	80.8	56.5	68 000
12.0	79.7	56.3	61 000
13.0	78.6	56.1	52 700
14.0	77.6	55.9	46 200
15.0	76.5	55.6	40 800
16.0	75.4	55.4	36 200
18.0	73.2	54.8	28 900
20.0	71.0	54.1	23 300
22.0	68.8	53.4	18 900
24.0	66.5	52.5	15 300
26.0	64.2	51.6	12 400
28.0	61.9	50.5	9 900
30.0	59.5	49.4	7 800
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 400
14.0	78.2	59.0	46 500
15.0	77.2	58.8	41 000
16.0	76.2	58.5	36 400
18.0	74.2	58.0	29 100
20.0	72.1	57.3	23 500
22.0	70.0	56.6	19 100
24.0	67.8	55.8	15 500
26.0	65.7	54.9	12 600
28.0	63.5	54.0	10 100
30.0	61.2	52.9	7 900
32.0	58.9	51.7	6 100



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



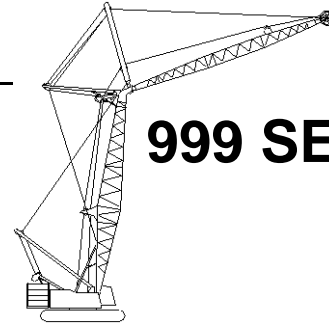
999 SERIES 2

33.5m (110 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	176 900 *
5.0	82.5	23.5	172 600 *
5.5	81.1	23.4	156 100 *
6.0	79.7	23.3	142 200 *
6.5	78.4	23.2	130 300 *
7.0	77.0	23.1	120 000 *
7.5	75.6	23.0	110 900 *
8.0	74.2	22.8	102 900 *
8.5	72.8	22.6	95 800 *
9.0	71.3	22.5	89 500 *
10.0	68.4	22.1	78 200
11.0	65.5	21.6	66 600
12.0	62.5	21.1	57 000
13.0	59.3	20.5	49 300
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	166 200 *
5.5	82.2	26.5	156 100 *
6.0	81.0	26.4	142 300 *
6.5	79.8	26.3	130 400 *
7.0	78.6	26.2	120 100 *
7.5	77.4	26.1	111 100 *
8.0	76.2	26.0	103 100 *
8.5	75.0	25.8	96 000 *
9.0	73.8	25.7	89 600 *
10.0	71.3	25.3	78 600
11.0	68.8	24.9	67 300
12.0	66.2	24.5	57 700
13.0	63.5	24.0	49 900
14.0	60.9	23.4	43 600
15.0	58.1	22.8	38 400
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	148 000 *
6.0	82.0	29.5	142 500 *
6.5	81.0	29.4	130 500 *
7.0	79.9	29.3	120 300 *
7.5	78.9	29.2	111 300 *
8.0	77.8	29.1	103 300 *
8.5	76.7	29.0	96 200 *
9.0	75.6	28.9	89 900 *
10.0	73.4	28.6	79 000
11.0	71.2	28.2	68 000
12.0	69.0	27.8	58 200
13.0	66.7	27.4	50 500
14.0	64.4	26.9	44 100
15.0	62.0	26.4	38 800
16.0	59.6	25.8	34 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	140 200 *
6.5	81.9	32.5	131 000 *
7.0	80.9	32.5	120 400 *
7.5	80.0	32.4	111 500 *
8.0	79.0	32.3	103 500 *
8.5	78.1	32.1	96 500 *
9.0	77.1	32.0	90 100 *
10.0	75.1	31.7	79 200 *
11.0	73.2	31.4	68 400
12.0	71.2	31.1	58 700
13.0	69.2	30.7	50 900
14.0	67.1	30.3	44 600
15.0	65.1	29.8	39 300
16.0	62.9	29.3	34 800
18.0	58.6	28.1	27 600
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	126 300 *
7.0	81.8	35.5	120 700 *
7.5	80.9	35.5	111 500 *
8.0	80.0	35.4	103 500 *
8.5	79.2	35.3	96 400 *
9.0	78.3	35.2	90 100 *
10.0	76.5	34.9	79 200 *
11.0	74.8	34.6	68 800
12.0	73.0	34.3	59 000
13.0	71.2	34.0	51 200
14.0	69.3	33.6	44 800
15.0	67.5	33.2	39 500
16.0	65.6	32.7	35 000
18.0	61.7	31.7	27 900
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	125 500 *
7.0	82.5	38.6	120 300 *
7.5	81.7	38.6	111 500 *
8.0	80.9	38.5	103 500 *
8.5	80.1	38.4	96 500 *
9.0	79.3	38.3	90 100 *
10.0	77.7	38.0	79 300 *
11.0	76.1	37.8	69 100
12.0	74.4	37.5	59 300
13.0	72.8	37.2	51 500
14.0	71.1	36.8	45 100
15.0	69.5	36.5	39 700
16.0	67.8	36.1	35 200
18.0	64.3	35.1	28 000
20.0	60.7	34.0	22 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	110 500 *
7.5	82.3	41.6	108 700 *
8.0	81.6	41.6	103 800 *
8.5	80.9	41.5	96 600 *
9.0	80.1	41.4	90 200 *
10.0	78.6	41.2	79 400 *
11.0	77.2	40.9	69 300
12.0	75.7	40.7	59 500
13.0	74.2	40.4	51 700
14.0	72.6	40.1	45 300
15.0	71.1	39.7	40 000
16.0	69.6	39.4	35 400
18.0	66.4	38.5	28 300
20.0	63.2	37.5	22 800
22.0	59.9	36.4	18 400
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	102 300 *
8.0	82.2	44.6	101 500 *
8.5	81.5	44.6	96 400 *
9.0	80.8	44.5	90 400 *
10.0	79.5	44.3	79 300 *
11.0	78.1	44.1	69 500
12.0	76.7	43.8	59 700
13.0	75.3	43.6	51 900
14.0	73.9	43.3	45 500
15.0	72.5	43.0	40 100
16.0	71.1	42.6	35 600
18.0	68.2	41.8	28 400
20.0	65.3	40.9	22 900
22.0	62.2	39.9	18 500
24.0	59.1	38.7	15 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	91 500 *
8.0	82.7	47.7	91 200 *
8.5	82.1	47.6	89 300 *
9.0	81.4	47.6	87 300 *
10.0	80.2	47.4	79 300 *
11.0	78.9	47.2	69 700
12.0	77.6	47.0	59 800
13.0	76.3	46.7	51 900
14.0	75.0	46.4	45 500
15.0	73.7	46.2	40 200
16.0	72.4	45.8	35 600
18.0	69.7	45.1	28 400
20.0	67.0	44.3	22 900
22.0	64.3	43.3	18 500
24.0	61.4	42.3	15 000



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

33.5m (110 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	85 100 *
9.0	82.0	50.7	83 400 *
10.0	80.8	50.5	79 000 *
11.0	79.6	50.3	69 800
12.0	78.4	50.1	59 900
13.0	77.2	49.9	52 000
14.0	76.0	49.6	45 600
15.0	74.8	49.3	40 200
16.0	73.5	49.0	35 600
18.0	71.1	48.4	28 400
20.0	68.5	47.6	22 900
22.0	66.0	46.7	18 500
24.0	63.4	45.7	15 000
26.0	60.7	44.6	12 000
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	78 100 *
9.0	82.5	53.7	76 700 *
10.0	81.3	53.6	73 900 *
11.0	80.2	53.4	69 900
12.0	79.1	53.2	60 000
13.0	78.0	53.0	52 100
14.0	76.8	52.8	45 700
15.0	75.7	52.5	40 200
16.0	74.5	52.2	35 700
18.0	72.2	51.6	28 400
20.0	69.9	50.9	22 900
22.0	67.5	50.1	18 500
24.0	65.1	49.2	15 000
26.0	62.6	48.1	12 100
28.0	60.0	47.0	9 600

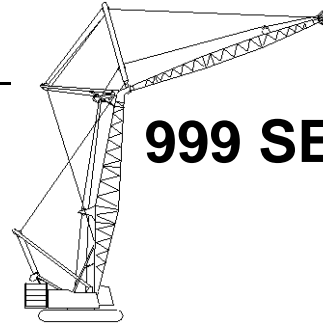
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	72 200 *
10.0	81.8	56.7	69 900 *
11.0	80.8	56.5	67 200
12.0	79.7	56.3	60 300
13.0	78.6	56.1	52 100
14.0	77.6	55.9	45 600
15.0	76.5	55.6	40 300
16.0	75.4	55.4	35 700
18.0	73.2	54.8	28 400
20.0	71.0	54.1	22 900
22.0	68.8	53.4	18 500
24.0	66.5	52.5	14 900
26.0	64.2	51.6	12 000
28.0	61.9	50.5	9 500
30.0	59.5	49.4	7 500
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 200
14.0	78.2	59.0	45 900
15.0	77.2	58.8	40 500
16.0	76.2	58.5	35 900
18.0	74.2	58.0	28 600
20.0	72.1	57.3	23 100
22.0	70.0	56.6	18 700
24.0	67.8	55.8	15 100
26.0	65.7	54.9	12 200
28.0	63.5	54.0	9 700
30.0	61.2	52.9	7 600
32.0	58.9	51.7	5 800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



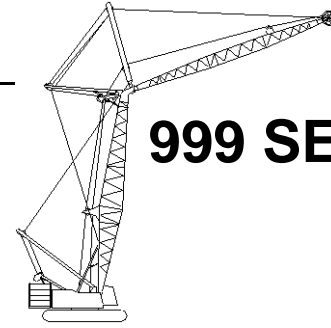
999 SERIES 2

36.6m (120 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	174 900 *
5.0	82.5	23.5	170 600 *
5.5	81.1	23.4	154 100 *
6.0	79.7	23.3	140 300 *
6.5	78.4	23.2	128 500 *
7.0	77.0	23.1	118 200 *
7.5	75.6	23.0	109 200 *
8.0	74.2	22.8	101 200 *
8.5	72.8	22.6	94 100 *
9.0	71.3	22.5	87 800 *
10.0	68.4	22.1	76 600
11.0	65.5	21.6	65 000
12.0	62.5	21.1	55 500
13.0	59.3	20.5	47 800
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	164 300 *
5.5	82.2	26.5	154 300 *
6.0	81.0	26.4	140 500 *
6.5	79.8	26.3	128 600 *
7.0	78.6	26.2	118 400 *
7.5	77.4	26.1	109 400 *
8.0	76.2	26.0	101 500 *
8.5	75.0	25.8	94 400 *
9.0	73.8	25.7	88 100 *
10.0	71.3	25.3	77 100
11.0	68.8	24.9	65 800
12.0	66.2	24.5	56 200
13.0	63.5	24.0	48 500
14.0	60.9	23.4	42 300
15.0	58.1	22.8	37 100
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	146 100 *
6.0	82.0	29.5	140 700 *
6.5	81.0	29.4	128 800 *
7.0	79.9	29.3	118 600 *
7.5	78.9	29.2	109 600 *
8.0	77.8	29.1	101 700 *
8.5	76.7	29.0	94 700 *
9.0	75.6	28.9	88 300 *
10.0	73.4	28.6	77 500
11.0	71.2	28.2	66 500
12.0	69.0	27.8	56 800
13.0	66.7	27.4	49 200
14.0	64.4	26.9	42 800
15.0	62.0	26.4	37 600
16.0	59.6	25.8	33 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	138 500 *
6.5	81.9	32.5	129 400 *
7.0	80.9	32.5	118 800 *
7.5	80.0	32.4	109 900 *
8.0	79.0	32.3	102 000 *
8.5	78.1	32.1	94 900 *
9.0	77.1	32.0	88 600 *
10.0	75.1	31.7	77 800 *
11.0	73.2	31.4	67 000
12.0	71.2	31.1	57 400
13.0	69.2	30.7	49 700
14.0	67.1	30.3	43 300
15.0	65.1	29.8	38 100
16.0	62.9	29.3	33 600
18.0	58.6	28.1	26 600
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	124 700 *
7.0	81.8	35.5	119 100 *
7.5	80.9	35.5	109 900 *
8.0	80.0	35.4	102 000 *
8.5	79.2	35.3	94 900 *
9.0	78.3	35.2	88 600 *
10.0	76.5	34.9	77 800 *
11.0	74.8	34.6	67 400
12.0	73.0	34.3	57 700
13.0	71.2	34.0	50 000
14.0	69.3	33.6	43 700
15.0	67.5	33.2	38 400
16.0	65.6	32.7	33 900
18.0	61.7	31.7	26 800
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	124 200 *
7.0	82.5	38.6	118 800 *
7.5	81.7	38.6	110 000 *
8.0	80.9	38.5	102 100 *
8.5	80.1	38.4	95 000 *
9.0	79.3	38.3	88 700 *
10.0	77.7	38.0	77 900 *
11.0	76.1	37.8	67 800
12.0	74.4	37.5	58 000
13.0	72.8	37.2	50 200
14.0	71.1	36.8	43 900
15.0	69.5	36.5	38 600
16.0	67.8	36.1	34 200
18.0	64.3	35.1	27 000
20.0	60.7	34.0	21 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	108 900 *
7.5	82.3	41.6	107 200 *
8.0	81.6	41.6	102 400 *
8.5	80.9	41.5	95 200 *
9.0	80.1	41.4	88 800 *
10.0	78.6	41.2	78 000 *
11.0	77.2	40.9	68 100
12.0	75.7	40.7	58 300
13.0	74.2	40.4	50 600
14.0	72.6	40.1	44 200
15.0	71.1	39.7	38 900
16.0	69.6	39.4	34 400
18.0	66.4	38.5	27 300
20.0	63.2	37.5	21 800
22.0	59.9	36.4	17 500
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	100 700 *
8.0	82.2	44.6	99 900 *
8.5	81.5	44.6	95 000 *
9.0	80.8	44.5	89 000 *
10.0	79.5	44.3	78 000 *
11.0	78.1	44.1	68 300
12.0	76.7	43.8	58 500
13.0	75.3	43.6	50 700
14.0	73.9	43.3	44 400
15.0	72.5	43.0	39 100
16.0	71.1	42.6	34 600
18.0	68.2	41.8	27 400
20.0	65.3	40.9	21 900
22.0	62.2	39.9	17 600
24.0	59.1	38.7	14 100
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	90 000 *
8.0	82.7	47.7	89 700 *
8.5	82.1	47.6	87 700 *
9.0	81.4	47.6	85 800 *
10.0	80.2	47.4	78 000 *
11.0	78.9	47.2	68 400
12.0	77.6	47.0	58 600
13.0	76.3	46.7	50 800
14.0	75.0	46.4	44 500
15.0	73.7	46.2	39 100
16.0	72.4	45.8	34 600
18.0	69.7	45.1	27 400
20.0	67.0	44.3	22 000
22.0	64.3	43.3	17 600
24.0	61.4	42.3	14 100



Liftcrane Boom Capacities With Luffing Jib Attached

999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

36.6m (120 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	83 500 *
9.0	82.0	50.7	81 800 *
10.0	80.8	50.5	77 500 *
11.0	79.6	50.3	68 500
12.0	78.4	50.1	58 700
13.0	77.2	49.9	50 900
14.0	76.0	49.6	44 500
15.0	74.8	49.3	39 200
16.0	73.5	49.0	34 700
18.0	71.1	48.4	27 500
20.0	68.5	47.6	22 000
22.0	66.0	46.7	17 700
24.0	63.4	45.7	14 100
26.0	60.7	44.6	11 200
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	76 600 *
9.0	82.5	53.7	75 200 *
10.0	81.3	53.6	72 400 *
11.0	80.2	53.4	68 700
12.0	79.1	53.2	58 800
13.0	78.0	53.0	51 000
14.0	76.8	52.8	44 600
15.0	75.7	52.5	39 300
16.0	74.5	52.2	34 800
18.0	72.2	51.6	27 500
20.0	69.9	50.9	22 100
22.0	67.5	50.1	17 700
24.0	65.1	49.2	14 200
26.0	62.6	48.1	11 300
28.0	60.0	47.0	8 900

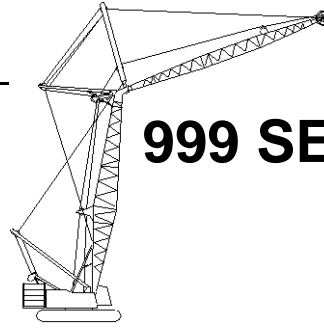
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	70 700 *
10.0	81.8	56.7	68 400 *
11.0	80.8	56.5	65 800
12.0	79.7	56.3	59 200
13.0	78.6	56.1	51 000
14.0	77.6	55.9	44 600
15.0	76.5	55.6	39 300
16.0	75.4	55.4	34 800
18.0	73.2	54.8	27 500
20.0	71.0	54.1	22 000
22.0	68.8	53.4	17 600
24.0	66.5	52.5	14 100
26.0	64.2	51.6	11 300
28.0	61.9	50.5	8 800
30.0	59.5	49.4	6 700
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	51 800
14.0	78.2	59.0	44 900
15.0	77.2	58.8	39 500
16.0	76.2	58.5	35 000
18.0	74.2	58.0	27 800
20.0	72.1	57.3	22 300
22.0	70.0	56.6	17 900
24.0	67.8	55.8	14 300
26.0	65.7	54.9	11 400
28.0	63.5	54.0	9 000
30.0	61.2	52.9	6 900
32.0	58.9	51.7	5 100



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 2

39.6m (130 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

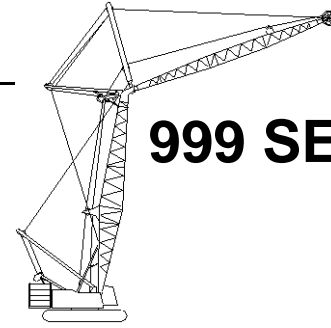
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	177 600 *
5.0	82.5	23.5	173 200 *
5.5	81.1	23.4	156 400 *
6.0	79.7	23.3	142 300 *
6.5	78.4	23.2	130 200 *
7.0	77.0	23.1	119 600 *
7.5	75.6	23.0	110 500 *
8.0	74.2	22.8	102 300 *
8.5	72.8	22.6	95 100 *
9.0	71.3	22.5	88 600 *
10.0	68.4	22.1	77 300
11.0	65.5	21.6	65 600
12.0	62.5	21.1	55 800
13.0	59.3	20.5	48 000
14.0	56.1	19.8	41 600
15.0	52.7	19.0	36 300
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	166 800 *
5.5	82.2	26.5	156 600 *
6.0	81.0	26.4	142 500 *
6.5	79.8	26.3	130 400 *
7.0	78.6	26.2	120 000 *
7.5	77.4	26.1	110 800 *
8.0	76.2	26.0	102 700 *
8.5	75.0	25.8	95 500 *
9.0	73.8	25.7	89 000 *
10.0	71.3	25.3	77 800
11.0	68.8	24.9	66 500
12.0	66.2	24.5	56 700
13.0	63.5	24.0	48 900
14.0	60.9	23.4	42 400
15.0	58.1	22.8	37 100
16.0	55.2	22.1	32 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	148 400 *
6.0	82.0	29.5	142 900 *
6.5	81.0	29.4	130 700 *
7.0	79.9	29.3	120 300 *
7.5	78.9	29.2	111 100 *
8.0	77.8	29.1	103 000 *
8.5	76.7	29.0	95 800 *
9.0	75.6	28.9	89 400 *
10.0	73.4	28.6	78 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
11.0	71.2	28.2	67 300
12.0	69.0	27.8	57 400
13.0	66.7	27.4	49 600
14.0	64.4	26.9	43 200
15.0	62.0	26.4	37 800
16.0	59.6	25.8	33 200
18.0	54.5	24.4	26 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	140 600 *
6.5	81.9	32.5	131 300 *
7.0	80.9	32.5	120 600 *
7.5	80.0	32.4	111 500 *
8.0	79.0	32.3	103 400 *
8.5	78.1	32.1	96 200 *
9.0	77.1	32.0	89 800 *
10.0	75.1	31.7	78 700 *
11.0	73.2	31.4	67 900
12.0	71.2	31.1	58 100
13.0	69.2	30.7	50 200
14.0	67.1	30.3	43 800
15.0	65.1	29.8	38 400
16.0	62.9	29.3	33 800
18.0	58.6	28.1	26 600
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	126 600 *
7.0	81.8	35.5	120 900 *
7.5	80.9	35.5	111 500 *
8.0	80.0	35.4	103 400 *
8.5	79.2	35.3	96 300 *
9.0	78.3	35.2	89 800 *
10.0	76.5	34.9	78 800 *
11.0	74.8	34.6	68 400
12.0	73.0	34.3	58 500
13.0	71.2	34.0	50 600
14.0	69.3	33.6	44 100
15.0	67.5	33.2	38 800
16.0	65.6	32.7	34 200
18.0	61.7	31.7	26 900
20.0	57.7	30.4	21 300
22.0	53.5	29.0	16 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	126 700 *
7.0	82.5	38.6	121 000 *
7.5	81.7	38.6	111 600 *
8.0	80.9	38.5	103 500 *
8.5	80.1	38.4	96 400 *
9.0	79.3	38.3	89 900 *
10.0	77.7	38.0	78 900 *
11.0	76.1	37.8	68 800
12.0	74.4	37.5	58 800
13.0	72.8	37.2	50 900
14.0	71.1	36.8	44 400
15.0	69.5	36.5	39 100
16.0	67.8	36.1	34 500
18.0	64.3	35.1	27 200
20.0	60.7	34.0	21 600
22.0	57.0	32.8	17 200
24.0	53.2	31.3	13 600
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	112 000 *
7.5	82.3	41.6	109 800 *
8.0	81.6	41.6	103 800 *
8.5	80.9	41.5	96 600 *
9.0	80.1	41.4	90 100 *
10.0	78.6	41.2	79 100 *
11.0	77.2	40.9	69 200
12.0	75.7	40.7	59 200
13.0	74.2	40.4	51 300
14.0	72.6	40.1	44 800
15.0	71.1	39.7	39 400
16.0	69.6	39.4	34 800
18.0	66.4	38.5	27 500
20.0	63.2	37.5	21 900
22.0	59.9	36.4	17 500
24.0	56.4	35.1	13 900



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

39.6m (130 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	104 000 *
8.0	82.2	44.6	103 000 *
8.5	81.5	44.6	96 500 *
9.0	80.8	44.5	90 200 *
10.0	79.5	44.3	79 100 *
11.0	78.1	44.1	69 400
12.0	76.7	43.8	59 400
13.0	75.3	43.6	51 500
14.0	73.9	43.3	45 000
15.0	72.5	43.0	39 600
16.0	71.1	42.6	35 000
18.0	68.2	41.8	27 700
20.0	65.3	40.9	22 100
22.0	62.2	39.9	17 700
24.0	59.1	38.7	14 100
26.0	55.9	37.4	11 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	93 200 *
8.0	82.7	47.7	92 900 *
8.5	82.1	47.6	90 800 *
9.0	81.4	47.6	88 800 *
10.0	80.2	47.4	79 000 *
11.0	78.9	47.2	69 600
12.0	77.6	47.0	59 600
13.0	76.3	46.7	51 600
14.0	75.0	46.4	45 100
15.0	73.7	46.2	39 700
16.0	72.4	45.8	35 100
18.0	69.7	45.1	27 700
20.0	67.0	44.3	22 200
22.0	64.3	43.3	17 700
24.0	61.4	42.3	14 100
26.0	58.5	41.1	11 200
28.0	55.5	39.7	8 700
30.0	52.3	38.2	6 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	86 900 *
9.0	82.0	50.7	85 100 *
10.0	80.8	50.5	79 300 *
11.0	79.6	50.3	69 700
12.0	78.4	50.1	59 700
13.0	77.2	49.9	51 700
14.0	76.0	49.6	45 200
15.0	74.8	49.3	39 800
16.0	73.5	49.0	35 100
18.0	71.1	48.4	27 800
20.0	68.5	47.6	22 200
22.0	66.0	46.7	17 800
24.0	63.4	45.7	14 200
26.0	60.7	44.6	11 200
28.0	57.9	43.4	8 700
30.0	55.1	42.1	6 600
32.0	52.1	40.5	4 800
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	79 800 *
9.0	82.5	53.7	78 400 *
10.0	81.3	53.6	75 400 *
11.0	80.2	53.4	69 800
12.0	79.1	53.2	59 900
13.0	78.0	53.0	51 800
14.0	76.8	52.8	45 300
15.0	75.7	52.5	39 900
16.0	74.5	52.2	35 300
18.0	72.2	51.6	27 900
20.0	69.9	50.9	22 300
22.0	67.5	50.1	17 900
24.0	65.1	49.2	14 300
26.0	62.6	48.1	11 300
28.0	60.0	47.0	8 800
30.0	57.4	45.8	6 700
32.0	54.7	44.4	4 900

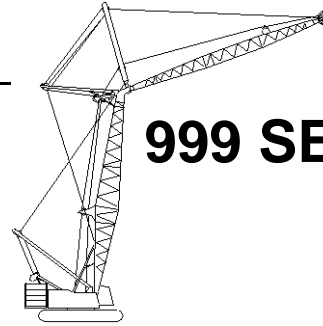
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	74 000 *
10.0	81.8	56.7	71 600 *
11.0	80.8	56.5	68 700
12.0	79.7	56.3	60 000
13.0	78.6	56.1	51 900
14.0	77.6	55.9	45 300
15.0	76.5	55.6	39 900
16.0	75.4	55.4	35 300
18.0	73.2	54.8	27 900
20.0	71.0	54.1	22 300
22.0	68.8	53.4	17 900
24.0	66.5	52.5	14 300
26.0	64.2	51.6	11 300
28.0	61.9	50.5	8 800
30.0	59.5	49.4	6 700
32.0	57.0	48.1	4 800
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 100
14.0	78.2	59.0	45 700
15.0	77.2	58.8	40 200
16.0	76.2	58.5	35 500
18.0	74.2	58.0	28 200
20.0	72.1	57.3	22 500
22.0	70.0	56.6	18 100
24.0	67.8	55.8	14 500
26.0	65.7	54.9	11 500
28.0	63.5	54.0	9 000
30.0	61.2	52.9	6 900
32.0	58.9	51.7	5 000



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 2

42.7m (140 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

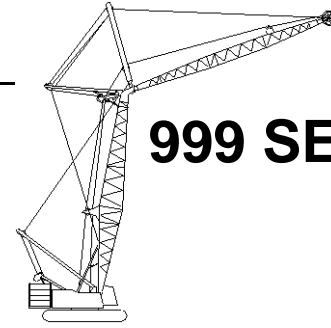
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	175 900 *
5.0	82.5	23.5	171 500 *
5.5	81.1	23.4	154 800 *
6.0	79.7	23.3	140 700 *
6.5	78.4	23.2	128 600 *
7.0	77.0	23.1	118 100 *
7.5	75.6	23.0	108 900 *
8.0	74.2	22.8	100 800 *
8.5	72.8	22.6	93 500 *
9.0	71.3	22.5	87 100 *
10.0	68.4	22.1	75 700
11.0	65.5	21.6	64 000
12.0	62.5	21.1	54 300
13.0	59.3	20.5	46 600
14.0	56.1	19.8	40 200
15.0	52.7	19.0	34 900
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	165 200 *
5.5	82.2	26.5	155 000 *
6.0	81.0	26.4	141 000 *
6.5	79.8	26.3	128 900 *
7.0	78.6	26.2	118 400 *
7.5	77.4	26.1	109 300 *
8.0	76.2	26.0	101 200 *
8.5	75.0	25.8	94 000 *
9.0	73.8	25.7	87 600 *
10.0	71.3	25.3	76 400
11.0	68.8	24.9	65 100
12.0	66.2	24.5	55 300
13.0	63.5	24.0	47 600
14.0	60.9	23.4	41 200
15.0	58.1	22.8	35 900
16.0	55.2	22.1	31 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	146 900 *
6.0	82.0	29.5	141 400 *
6.5	81.0	29.4	129 200 *
7.0	79.9	29.3	118 800 *
7.5	78.9	29.2	109 700 *
8.0	77.8	29.1	101 600 *
8.5	76.7	29.0	94 400 *
9.0	75.6	28.9	88 000 *
10.0	73.4	28.6	76 900 *
11.0	71.2	28.2	66 000
12.0	69.0	27.8	56 100
13.0	66.7	27.4	48 300
14.0	64.4	26.9	41 900
15.0	62.0	26.4	36 600
16.0	59.6	25.8	32 100
18.0	54.5	24.4	24 900
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	139 200 *
6.5	81.9	32.5	129 900 *
7.0	80.9	32.5	119 200 *
7.5	80.0	32.4	110 100 *
8.0	79.0	32.3	102 000 *
8.5	78.1	32.1	94 800 *
9.0	77.1	32.0	88 400 *
10.0	75.1	31.7	77 400 *
11.0	73.2	31.4	66 700
12.0	71.2	31.1	56 800
13.0	69.2	30.7	49 000
14.0	67.1	30.3	42 600
15.0	65.1	29.8	37 300
16.0	62.9	29.3	32 700
18.0	58.6	28.1	25 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	125 200 *
7.0	81.8	35.5	119 500 *
7.5	80.9	35.5	110 100 *
8.0	80.0	35.4	102 100 *
8.5	79.2	35.3	94 900 *
9.0	78.3	35.2	88 500 *
10.0	76.5	34.9	77 500 *
11.0	74.8	34.6	67 200
12.0	73.0	34.3	57 300
13.0	71.2	34.0	49 500
14.0	69.3	33.6	43 000
15.0	67.5	33.2	37 700
16.0	65.6	32.7	33 100
18.0	61.7	31.7	25 900
20.0	57.7	30.4	20 300
22.0	53.5	29.0	16 000
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	125 300 *
7.0	82.5	38.6	119 600 *
7.5	81.7	38.6	110 300 *
8.0	80.9	38.5	102 300 *
8.5	80.1	38.4	95 100 *
9.0	79.3	38.3	88 700 *
10.0	77.7	38.0	77 700 *
11.0	76.1	37.8	67 600
12.0	74.4	37.5	57 700
13.0	72.8	37.2	49 800
14.0	71.1	36.8	43 400
15.0	69.5	36.5	38 000
16.0	67.8	36.1	33 500
18.0	64.3	35.1	26 200
20.0	60.7	34.0	20 700
22.0	57.0	32.8	16 300
24.0	53.2	31.3	12 800



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

42.7m (140 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	110 700 *
7.5	82.3	41.6	108 500 *
8.0	81.6	41.6	102 600 *
8.5	80.9	41.5	95 300 *
9.0	80.1	41.4	88 900 *
10.0	78.6	41.2	77 900 *
11.0	77.2	40.9	68 000
12.0	75.7	40.7	58 100
13.0	74.2	40.4	50 200
14.0	72.6	40.1	43 800
15.0	71.1	39.7	38 400
16.0	69.6	39.4	33 800
18.0	66.4	38.5	26 500
20.0	63.2	37.5	21 000
22.0	59.9	36.4	16 600
24.0	56.4	35.1	13 100
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	102 600 *
8.0	82.2	44.6	101 700 *
8.5	81.5	44.6	95 300 *
9.0	80.8	44.5	89 000 *
10.0	79.5	44.3	78 000 *
11.0	78.1	44.1	68 300
12.0	76.7	43.8	58 400
13.0	75.3	43.6	50 400
14.0	73.9	43.3	44 000
15.0	72.5	43.0	38 600
16.0	71.1	42.6	34 000
18.0	68.2	41.8	26 800
20.0	65.3	40.9	21 200
22.0	62.2	39.9	16 800
24.0	59.1	38.7	13 200
26.0	55.9	37.4	10 300
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	91 900 *
8.0	82.7	47.7	91 600 *
8.5	82.1	47.6	89 500 *
9.0	81.4	47.6	87 500 *
10.0	80.2	47.4	77 800 *
11.0	78.9	47.2	68 500
12.0	77.6	47.0	58 600
13.0	76.3	46.7	50 600
14.0	75.0	46.4	44 200
15.0	73.7	46.2	38 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
16.0	72.4	45.8	34 200
18.0	69.7	45.1	26 900
20.0	67.0	44.3	21 300
22.0	64.3	43.3	16 900
24.0	61.4	42.3	13 300
26.0	58.5	41.1	10 400
28.0	55.5	39.7	7 900
30.0	52.3	38.2	5 800
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	85 500 *
9.0	82.0	50.7	83 800 *
10.0	80.8	50.5	78 200 *
11.0	79.6	50.3	68 700
12.0	78.4	50.1	58 700
13.0	77.2	49.9	50 800
14.0	76.0	49.6	44 300
15.0	74.8	49.3	38 800
16.0	73.5	49.0	34 300
18.0	71.1	48.4	27 000
20.0	68.5	47.6	21 400
22.0	66.0	46.7	16 900
24.0	63.4	45.7	13 400
26.0	60.7	44.6	10 400
28.0	57.9	43.4	7 900
30.0	55.1	42.1	5 800
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	78 600 *
9.0	82.5	53.7	77 100 *
10.0	81.3	53.6	74 100 *
11.0	80.2	53.4	68 700
12.0	79.1	53.2	58 900
13.0	78.0	53.0	50 900
14.0	76.8	52.8	44 400
15.0	75.7	52.5	39 000
16.0	74.5	52.2	34 400
18.0	72.2	51.6	27 100
20.0	69.9	50.9	21 500
22.0	67.5	50.1	17 100
24.0	65.1	49.2	13 500
26.0	62.6	48.1	10 500
28.0	60.0	47.0	8 100
30.0	57.4	45.8	5 900

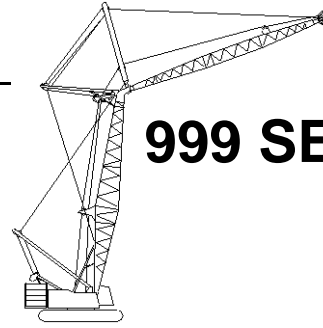
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	72 800 *
10.0	81.8	56.7	70 300 *
11.0	80.8	56.5	67 400
12.0	79.7	56.3	59 100
13.0	78.6	56.1	50 900
14.0	77.6	55.9	44 400
15.0	76.5	55.6	39 000
16.0	75.4	55.4	34 400
18.0	73.2	54.8	27 100
20.0	71.0	54.1	21 500
22.0	68.8	53.4	17 100
24.0	66.5	52.5	13 500
26.0	64.2	51.6	10 500
28.0	61.9	50.5	8 000
30.0	59.5	49.4	6 000
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	51 700
14.0	78.2	59.0	44 800
15.0	77.2	58.8	39 300
16.0	76.2	58.5	34 700
18.0	74.2	58.0	27 400
20.0	72.1	57.3	21 700
22.0	70.0	56.6	17 300
24.0	67.8	55.8	13 700
26.0	65.7	54.9	10 800
28.0	63.5	54.0	8 300
30.0	61.2	52.9	6 200



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 2

45.7m (150 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

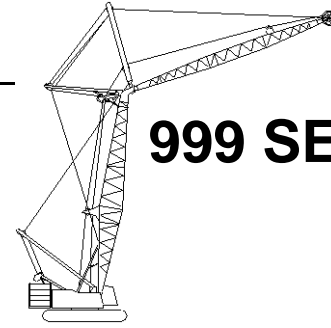
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	174 700 *
5.0	82.5	23.5	170 300 *
5.5	81.1	23.4	153 600 *
6.0	79.7	23.3	139 500 *
6.5	78.4	23.2	127 400 *
7.0	77.0	23.1	116 900 *
7.5	75.6	23.0	107 800 *
8.0	74.2	22.8	99 700 *
8.5	72.8	22.6	92 500 *
9.0	71.3	22.5	86 000 *
10.0	68.4	22.1	74 700
11.0	65.5	21.6	62 900
12.0	62.5	21.1	53 300
13.0	59.3	20.5	45 600
14.0	56.1	19.8	39 300
15.0	52.7	19.0	34 000
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	164 100 *
5.5	82.2	26.5	153 900 *
6.0	81.0	26.4	139 900 *
6.5	79.8	26.3	127 800 *
7.0	78.6	26.2	117 400 *
7.5	77.4	26.1	108 300 *
8.0	76.2	26.0	100 200 *
8.5	75.0	25.8	93 000 *
9.0	73.8	25.7	86 600 *
10.0	71.3	25.3	75 400
11.0	68.8	24.9	64 100
12.0	66.2	24.5	54 400
13.0	63.5	24.0	46 600
14.0	60.9	23.4	40 300
15.0	58.1	22.8	35 000
16.0	55.2	22.1	30 500
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	145 800 *
6.0	82.0	29.5	140 300 *
6.5	81.0	29.4	128 200 *
7.0	79.9	29.3	117 800 *
7.5	78.9	29.2	108 700 *
8.0	77.8	29.1	100 600 *
8.5	76.7	29.0	93 500 *
9.0	75.6	28.9	87 000 *
10.0	73.4	28.6	76 000 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
11.0	71.2	28.2	65 000
12.0	69.0	27.8	55 300
13.0	66.7	27.4	47 500
14.0	64.4	26.9	41 100
15.0	62.0	26.4	35 800
16.0	59.6	25.8	31 300
18.0	54.5	24.4	24 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	138 200 *
6.5	81.9	32.5	128 900 *
7.0	80.9	32.5	118 200 *
7.5	80.0	32.4	109 100 *
8.0	79.0	32.3	101 100 *
8.5	78.1	32.1	93 900 *
9.0	77.1	32.0	87 500 *
10.0	75.1	31.7	76 500 *
11.0	73.2	31.4	65 700
12.0	71.2	31.1	56 000
13.0	69.2	30.7	48 200
14.0	67.1	30.3	41 800
15.0	65.1	29.8	36 500
16.0	62.9	29.3	32 000
18.0	58.6	28.1	24 800
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	124 300 *
7.0	81.8	35.5	118 600 *
7.5	80.9	35.5	109 200 *
8.0	80.0	35.4	101 200 *
8.5	79.2	35.3	94 100 *
9.0	78.3	35.2	87 700 *
10.0	76.5	34.9	76 700 *
11.0	74.8	34.6	66 300
12.0	73.0	34.3	56 500
13.0	71.2	34.0	48 700
14.0	69.3	33.6	42 300
15.0	67.5	33.2	37 000
16.0	65.6	32.7	32 400
18.0	61.7	31.7	25 200
20.0	57.7	30.4	19 700
22.0	53.5	29.0	15 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	124 400 *
7.0	82.5	38.6	118 700 *
7.5	81.7	38.6	109 400 *
8.0	80.9	38.5	101 400 *
8.5	80.1	38.4	94 300 *
9.0	79.3	38.3	87 800 *
10.0	77.7	38.0	76 900 *
11.0	76.1	37.8	66 800
12.0	74.4	37.5	56 900
13.0	72.8	37.2	49 100
14.0	71.1	36.8	42 700
15.0	69.5	36.5	37 400
16.0	67.8	36.1	32 800
18.0	64.3	35.1	25 600
20.0	60.7	34.0	20 100
22.0	57.0	32.8	15 700
24.0	53.2	31.3	12 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	109 800 *
7.5	82.3	41.6	107 700 *
8.0	81.6	41.6	101 700 *
8.5	80.9	41.5	94 500 *
9.0	80.1	41.4	88 100 *
10.0	78.6	41.2	77 100 *
11.0	77.2	40.9	67 200
12.0	75.7	40.7	57 300
13.0	74.2	40.4	49 500
14.0	72.6	40.1	43 100
15.0	71.1	39.7	37 700
16.0	69.6	39.4	33 200
18.0	66.4	38.5	26 000
20.0	63.2	37.5	20 400
22.0	59.9	36.4	16 100
24.0	56.4	35.1	12 500



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

45.7m (150 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

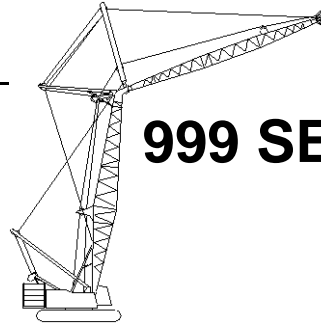
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	101 700 *
8.0	82.2	44.6	100 800 *
8.5	81.5	44.6	94 500 *
9.0	80.8	44.5	88 200 *
10.0	79.5	44.3	77 200 *
11.0	78.1	44.1	67 500
12.0	76.7	43.8	57 600
13.0	75.3	43.6	49 800
14.0	73.9	43.3	43 300
15.0	72.5	43.0	38 000
16.0	71.1	42.6	33 400
18.0	68.2	41.8	26 200
20.0	65.3	40.9	20 700
22.0	62.2	39.9	16 300
24.0	59.1	38.7	12 800
26.0	55.9	37.4	9 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	91 100 *
8.0	82.7	47.7	90 800 *
8.5	82.1	47.6	88 700 *
9.0	81.4	47.6	86 700 *
10.0	80.2	47.4	77 100 *
11.0	78.9	47.2	67 800
12.0	77.6	47.0	57 800
13.0	76.3	46.7	49 900
14.0	75.0	46.4	43 500
15.0	73.7	46.2	38 100
16.0	72.4	45.8	33 600
18.0	69.7	45.1	26 300
20.0	67.0	44.3	20 800
22.0	64.3	43.3	16 400
24.0	61.4	42.3	12 800
26.0	58.5	41.1	9 900
28.0	55.5	39.7	7 500
30.0	52.3	38.2	5 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	84 700 *
9.0	82.0	50.7	82 900 *
10.0	80.8	50.5	77 500 *
11.0	79.6	50.3	68 000
12.0	78.4	50.1	58 000
13.0	77.2	49.9	50 100
14.0	76.0	49.6	43 600
15.0	74.8	49.3	38 300
16.0	73.5	49.0	33 700
18.0	71.1	48.4	26 400
20.0	68.5	47.6	20 800
22.0	66.0	46.7	16 500
24.0	63.4	45.7	12 900
26.0	60.7	44.6	10 000
28.0	57.9	43.4	7 500
30.0	55.1	42.1	5 400
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	77 800 *
9.0	82.5	53.7	76 400 *
10.0	81.3	53.6	73 300 *
11.0	80.2	53.4	68 000
12.0	79.1	53.2	58 200
13.0	78.0	53.0	50 300
14.0	76.8	52.8	43 800
15.0	75.7	52.5	38 400
16.0	74.5	52.2	33 800
18.0	72.2	51.6	26 500
20.0	69.9	50.9	21 000
22.0	67.5	50.1	16 600
24.0	65.1	49.2	13 000
26.0	62.6	48.1	10 100
28.0	60.0	47.0	7 600
30.0	57.4	45.8	5 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	71 900 *
10.0	81.8	56.7	69 500 *
11.0	80.8	56.5	66 600
12.0	79.7	56.3	58 400
13.0	78.6	56.1	50 300
14.0	77.6	55.9	43 800
15.0	76.5	55.6	38 500
16.0	75.4	55.4	33 800
18.0	73.2	54.8	26 600
20.0	71.0	54.1	21 000
22.0	68.8	53.4	16 600
24.0	66.5	52.5	13 100
26.0	64.2	51.6	10 100
28.0	61.9	50.5	7 600
30.0	59.5	49.4	5 500
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	51 000
14.0	78.2	59.0	44 200
15.0	77.2	58.8	38 800
16.0	76.2	58.5	34 200
18.0	74.2	58.0	26 900
20.0	72.1	57.3	21 300
22.0	70.0	56.6	16 900
24.0	67.8	55.8	13 300
26.0	65.7	54.9	10 300
28.0	63.5	54.0	7 900
30.0	61.2	52.9	5 700



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

48.8m (160 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

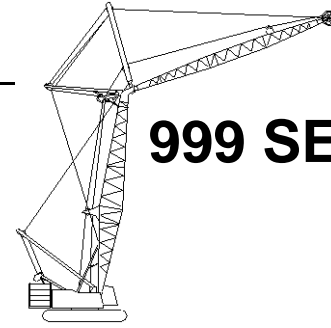
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	173 000 *
5.0	82.5	23.5	168 500 *
5.5	81.1	23.4	151 900 *
6.0	79.7	23.3	137 800 *
6.5	78.4	23.2	125 700 *
7.0	77.0	23.1	115 300 *
7.5	75.6	23.0	106 100 *
8.0	74.2	22.8	98 000 *
8.5	72.8	22.6	90 900 *
9.0	71.3	22.5	84 400 *
10.0	68.4	22.1	73 000
11.0	65.5	21.6	61 300
12.0	62.5	21.1	51 700
13.0	59.3	20.5	44 100
14.0	56.1	19.8	37 800
15.0	52.7	19.0	32 600
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	162 400 *
5.5	82.2	26.5	152 300 *
6.0	81.0	26.4	138 300 *
6.5	79.8	26.3	126 300 *
7.0	78.6	26.2	115 800 *
7.5	77.4	26.1	106 700 *
8.0	76.2	26.0	98 600 *
8.5	75.0	25.8	91 400 *
9.0	73.8	25.7	85 000 *
10.0	71.3	25.3	73 900
11.0	68.8	24.9	62 600
12.0	66.2	24.5	52 900
13.0	63.5	24.0	45 200
14.0	60.9	23.4	38 900
15.0	58.1	22.8	33 700
16.0	55.2	22.1	29 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	144 200 *
6.0	82.0	29.5	138 800 *
6.5	81.0	29.4	126 700 *
7.0	79.9	29.3	116 300 *
7.5	78.9	29.2	107 200 *
8.0	77.8	29.1	99 200 *
8.5	76.7	29.0	92 000 *
9.0	75.6	28.9	85 600 *
10.0	73.4	28.6	74 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
11.0	71.2	28.2	63 600
12.0	69.0	27.8	53 900
13.0	66.7	27.4	46 200
14.0	64.4	26.9	39 800
15.0	62.0	26.4	34 600
16.0	59.6	25.8	30 100
18.0	54.5	24.4	23 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	136 700 *
6.5	81.9	32.5	127 400 *
7.0	80.9	32.5	116 700 *
7.5	80.0	32.4	107 700 *
8.0	79.0	32.3	99 600 *
8.5	78.1	32.1	92 500 *
9.0	77.1	32.0	86 100 *
10.0	75.1	31.7	75 100 *
11.0	73.2	31.4	64 400
12.0	71.2	31.1	54 700
13.0	69.2	30.7	46 900
14.0	67.1	30.3	40 600
15.0	65.1	29.8	35 300
16.0	62.9	29.3	30 800
18.0	58.6	28.1	23 700
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	122 800 *
7.0	81.8	35.5	117 200 *
7.5	80.9	35.5	107 800 *
8.0	80.0	35.4	99 800 *
8.5	79.2	35.3	92 700 *
9.0	78.3	35.2	86 300 *
10.0	76.5	34.9	75 400 *
11.0	74.8	34.6	65 000
12.0	73.0	34.3	55 300
13.0	71.2	34.0	47 500
14.0	69.3	33.6	41 100
15.0	67.5	33.2	35 800
16.0	65.6	32.7	31 300
18.0	61.7	31.7	24 200
20.0	57.7	30.4	18 700
22.0	53.5	29.0	14 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	123 000 *
7.0	82.5	38.6	117 300 *
7.5	81.7	38.6	108 000 *
8.0	80.9	38.5	100 000 *
8.5	80.1	38.4	92 900 *
9.0	79.3	38.3	86 500 *
10.0	77.7	38.0	75 600 *
11.0	76.1	37.8	65 500
12.0	74.4	37.5	55 700
13.0	72.8	37.2	48 000
14.0	71.1	36.8	41 600
15.0	69.5	36.5	36 300
16.0	67.8	36.1	31 700
18.0	64.3	35.1	24 600
20.0	60.7	34.0	19 100
22.0	57.0	32.8	14 800
24.0	53.2	31.3	11 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	108 400 *
7.5	82.3	41.6	106 300 *
8.0	81.6	41.6	100 400 *
8.5	80.9	41.5	93 200 *
9.0	80.1	41.4	86 800 *
10.0	78.6	41.2	75 900 *
11.0	77.2	40.9	66 000
12.0	75.7	40.7	56 200
13.0	74.2	40.4	48 400
14.0	72.6	40.1	42 000
15.0	71.1	39.7	36 700
16.0	69.6	39.4	32 100
18.0	66.4	38.5	25 000
20.0	63.2	37.5	19 500
22.0	59.9	36.4	15 200
24.0	56.4	35.1	11 600



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

48.8m (160 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	100 300 *
8.0	82.2	44.6	99 400 *
8.5	81.5	44.6	93 200 *
9.0	80.8	44.5	87 000 *
10.0	79.5	44.3	76 000 *
11.0	78.1	44.1	66 400
12.0	76.7	43.8	56 500
13.0	75.3	43.6	48 700
14.0	73.9	43.3	42 300
15.0	72.5	43.0	37 000
16.0	71.1	42.6	32 500
18.0	68.2	41.8	25 300
20.0	65.3	40.9	19 800
22.0	62.2	39.9	15 400
24.0	59.1	38.7	11 900
26.0	55.9	37.4	9 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	89 800 *
8.0	82.7	47.7	89 400 *
8.5	82.1	47.6	87 400 *
9.0	81.4	47.6	85 300 *
10.0	80.2	47.4	75 900 *
11.0	78.9	47.2	66 600
12.0	77.6	47.0	56 700
13.0	76.3	46.7	48 900
14.0	75.0	46.4	42 500
15.0	73.7	46.2	37 100
16.0	72.4	45.8	32 600
18.0	69.7	45.1	25 400
20.0	67.0	44.3	19 900
22.0	64.3	43.3	15 500
24.0	61.4	42.3	12 000
26.0	58.5	41.1	9 100
28.0	55.5	39.7	6 600
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	83 400 *
9.0	82.0	50.7	81 600 *
10.0	80.8	50.5	76 400 *
11.0	79.6	50.3	66 800
12.0	78.4	50.1	56 900
13.0	77.2	49.9	49 100
14.0	76.0	49.6	42 700
15.0	74.8	49.3	37 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
16.0	73.5	49.0	32 700
18.0	71.1	48.4	25 500
20.0	68.5	47.6	20 000
22.0	66.0	46.7	15 600
24.0	63.4	45.7	12 100
26.0	60.7	44.6	9 200
28.0	57.9	43.4	6 700
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	76 500 *
9.0	82.5	53.7	75 100 *
10.0	81.3	53.6	72 000 *
11.0	80.2	53.4	66 900
12.0	79.1	53.2	57 200
13.0	78.0	53.0	49 300
14.0	76.8	52.8	42 800
15.0	75.7	52.5	37 500
16.0	74.5	52.2	32 900
18.0	72.2	51.6	25 700
20.0	69.9	50.9	20 200
22.0	67.5	50.1	15 800
24.0	65.1	49.2	12 200
26.0	62.6	48.1	9 300
28.0	60.0	47.0	6 900
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	70 600 *
10.0	81.8	56.7	68 200 *
11.0	80.8	56.5	65 300
12.0	79.7	56.3	57 500
13.0	78.6	56.1	49 400
14.0	77.6	55.9	42 900
15.0	76.5	55.6	37 500
16.0	75.4	55.4	33 000
18.0	73.2	54.8	25 700
20.0	71.0	54.1	20 200
22.0	68.8	53.4	15 800
24.0	66.5	52.5	12 300
26.0	64.2	51.6	9 400
28.0	61.9	50.5	6 900

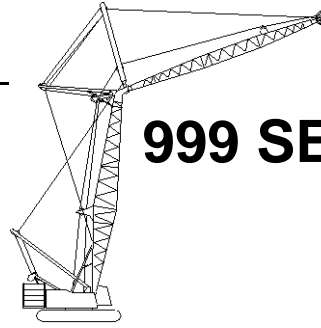
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	50 000
14.0	78.2	59.0	43 300
15.0	77.2	58.8	37 900
16.0	76.2	58.5	33 300
18.0	74.2	58.0	26 000
20.0	72.1	57.3	20 500
22.0	70.0	56.6	16 100
24.0	67.8	55.8	12 500
26.0	65.7	54.9	9 600
28.0	63.5	54.0	7 100
30.0	61.2	52.9	5 000



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 2

51.8m (170 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

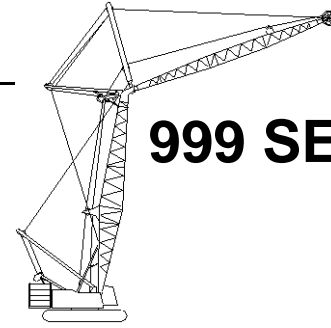
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	171 300 *
5.0	82.5	23.5	166 900 *
5.5	81.1	23.4	150 300 *
6.0	79.7	23.3	136 200 *
6.5	78.4	23.2	124 200 *
7.0	77.0	23.1	113 700 *
7.5	75.6	23.0	104 600 *
8.0	74.2	22.8	96 500 *
8.5	72.8	22.6	89 400 *
9.0	71.3	22.5	82 900 *
10.0	68.4	22.1	71 500
11.0	65.5	21.6	59 800
12.0	62.5	21.1	50 300
13.0	59.3	20.5	42 700
14.0	56.1	19.8	36 500
15.0	52.7	19.0	31 300
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	160 900 *
5.5	82.2	26.5	150 700 *
6.0	81.0	26.4	136 800 *
6.5	79.8	26.3	124 800 *
7.0	78.6	26.2	114 300 *
7.5	77.4	26.1	105 200 *
8.0	76.2	26.0	97 200 *
8.5	75.0	25.8	90 000 *
9.0	73.8	25.7	83 600 *
10.0	71.3	25.3	72 500
11.0	68.8	24.9	61 200
12.0	66.2	24.5	51 600
13.0	63.5	24.0	44 000
14.0	60.9	23.4	37 700
15.0	58.1	22.8	32 500
16.0	55.2	22.1	28 100
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	142 800 *
6.0	82.0	29.5	137 300 *
6.5	81.0	29.4	125 300 *
7.0	79.9	29.3	114 900 *
7.5	78.9	29.2	105 800 *
8.0	77.8	29.1	97 800 *
8.5	76.7	29.0	90 700 *
9.0	75.6	28.9	84 300 *
10.0	73.4	28.6	73 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
11.0	71.2	28.2	62 300
12.0	69.0	27.8	52 700
13.0	66.7	27.4	44 900
14.0	64.4	26.9	38 700
15.0	62.0	26.4	33 500
16.0	59.6	25.8	29 000
18.0	54.5	24.4	21 900
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	135 300 *
6.5	81.9	32.5	126 000 *
7.0	80.9	32.5	115 400 *
7.5	80.0	32.4	106 400 *
8.0	79.0	32.3	98 400 *
8.5	78.1	32.1	91 200 *
9.0	77.1	32.0	84 800 *
10.0	75.1	31.7	73 900 *
11.0	73.2	31.4	63 200
12.0	71.2	31.1	53 500
13.0	69.2	30.7	45 800
14.0	67.1	30.3	39 500
15.0	65.1	29.8	34 300
16.0	62.9	29.3	29 800
18.0	58.6	28.1	22 700
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	121 500 *
7.0	81.8	35.5	115 800 *
7.5	80.9	35.5	106 500 *
8.0	80.0	35.4	98 600 *
8.5	79.2	35.3	91 500 *
9.0	78.3	35.2	85 100 *
10.0	76.5	34.9	74 200 *
11.0	74.8	34.6	63 800
12.0	73.0	34.3	54 100
13.0	71.2	34.0	46 400
14.0	69.3	33.6	40 100
15.0	67.5	33.2	34 800
16.0	65.6	32.7	30 400
18.0	61.7	31.7	23 200
20.0	57.7	30.4	17 800
22.0	53.5	29.0	13 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	121 700 *
7.0	82.5	38.6	116 100 *
7.5	81.7	38.6	106 800 *
8.0	80.9	38.5	98 800 *
8.5	80.1	38.4	91 700 *
9.0	79.3	38.3	85 300 *
10.0	77.7	38.0	74 400 *
11.0	76.1	37.8	64 400
12.0	74.4	37.5	54 600
13.0	72.8	37.2	46 900
14.0	71.1	36.8	40 600
15.0	69.5	36.5	35 300
16.0	67.8	36.1	30 800
18.0	64.3	35.1	23 700
20.0	60.7	34.0	18 200
22.0	57.0	32.8	13 900
24.0	53.2	31.3	10 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	107 100 *
7.5	82.3	41.6	105 000 *
8.0	81.6	41.6	99 200 *
8.5	80.9	41.5	92 100 *
9.0	80.1	41.4	85 600 *
10.0	78.6	41.2	74 700 *
11.0	77.2	40.9	64 900
12.0	75.7	40.7	55 100
13.0	74.2	40.4	47 400
14.0	72.6	40.1	41 000
15.0	71.1	39.7	35 700
16.0	69.6	39.4	31 200
18.0	66.4	38.5	24 100
20.0	63.2	37.5	18 700
22.0	59.9	36.4	14 300
24.0	56.4	35.1	10 800



Liftcrane Boom Capacities With Luffing Jib Attached



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**

51.8m (170 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	99 100 *
8.0	82.2	44.6	98 100 *
8.5	81.5	44.6	92 000 *
9.0	80.8	44.5	85 800 *
10.0	79.5	44.3	74 900 *
11.0	78.1	44.1	65 300
12.0	76.7	43.8	55 500
13.0	75.3	43.6	47 700
14.0	73.9	43.3	41 300
15.0	72.5	43.0	36 100
16.0	71.1	42.6	31 600
18.0	68.2	41.8	24 400
20.0	65.3	40.9	18 900
22.0	62.2	39.9	14 600
24.0	59.1	38.7	11 100
26.0	55.9	37.4	8 300
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	88 600 *
8.0	82.7	47.7	88 300 *
8.5	82.1	47.6	86 200 *
9.0	81.4	47.6	84 100 *
10.0	80.2	47.4	74 900 *
11.0	78.9	47.2	65 600
12.0	77.6	47.0	55 800
13.0	76.3	46.7	48 000
14.0	75.0	46.4	41 600
15.0	73.7	46.2	36 300
16.0	72.4	45.8	31 800
18.0	69.7	45.1	24 600
20.0	67.0	44.3	19 100
22.0	64.3	43.3	14 800
24.0	61.4	42.3	11 300
26.0	58.5	41.1	8 400
28.0	55.5	39.7	5 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	82 100 *
9.0	82.0	50.7	80 300 *
10.0	80.8	50.5	75 300 *
11.0	79.6	50.3	65 800
12.0	78.4	50.1	56 000
13.0	77.2	49.9	48 200
14.0	76.0	49.6	41 800
15.0	74.8	49.3	36 400
16.0	73.5	49.0	31 900
18.0	71.1	48.4	24 700
20.0	68.5	47.6	19 200
22.0	66.0	46.7	14 900
24.0	63.4	45.7	11 400
26.0	60.7	44.6	8 500
28.0	57.9	43.4	6 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	75 400 *
9.0	82.5	53.7	73 900 *
10.0	81.3	53.6	70 900 *
11.0	80.2	53.4	65 900
12.0	79.1	53.2	56 200
13.0	78.0	53.0	48 400
14.0	76.8	52.8	42 000
15.0	75.7	52.5	36 600
16.0	74.5	52.2	32 100
18.0	72.2	51.6	24 900
20.0	69.9	50.9	19 400
22.0	67.5	50.1	15 100
24.0	65.1	49.2	11 500
26.0	62.6	48.1	8 600
28.0	60.0	47.0	6 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	69 500 *
10.0	81.8	56.7	67 000 *
11.0	80.8	56.5	64 100
12.0	79.7	56.3	56 600
13.0	78.6	56.1	48 500
14.0	77.6	55.9	42 100
15.0	76.5	55.6	36 700
16.0	75.4	55.4	32 200
18.0	73.2	54.8	25 000
20.0	71.0	54.1	19 500
22.0	68.8	53.4	15 100
24.0	66.5	52.5	11 600
26.0	64.2	51.6	8 700
28.0	61.9	50.5	6 200
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	49 000
14.0	78.2	59.0	42 400
15.0	77.2	58.8	37 100
16.0	76.2	58.5	32 500
18.0	74.2	58.0	25 300
20.0	72.1	57.3	19 800
22.0	70.0	56.6	15 400
24.0	67.8	55.8	11 900
26.0	65.7	54.9	8 900
28.0	63.5	54.0	6 500