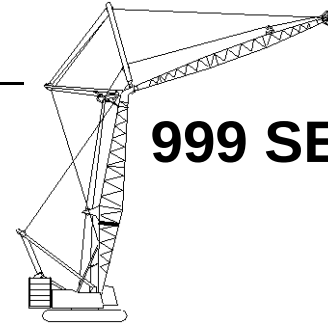


Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg 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 (*).

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**.

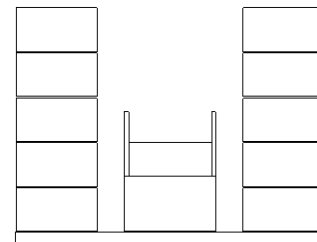
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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, 99 610 kg crane counterweight, two 9 980 kg and two 8 165 kg carbody counterweights.

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

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



99 610 kg Crane Counterweight
10 Side Boxes - 1 Center Box

Boom Catwalks Deduct

Deduct 200 kg from capacities when boom catwalks are attached.

Intermediate Fall Deduct

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

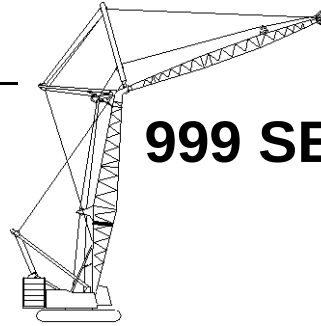
Luffing Jib Position During Operation	
Luffing Jib Length - Meters	Boom To Luffing Jib Angle
21.3	140 Degrees
24.4 - 27.4	150 Degrees
30.5 - 36.6	160 Degrees
39.6 - 51.8	168 Degrees



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	177 100 *
5.5	81.1	23.4	173 200 *
6.0	79.7	23.3	169 200 *
6.5	78.4	23.2	158 500 *
7.0	77.0	23.1	145 800 *
7.5	75.6	23.0	135 800 *
8.0	74.2	22.8	126 900 *
8.5	72.8	22.6	119 000 *
9.0	71.3	22.5	112 000 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	168 300 *
5.5	82.2	26.5	166 200 *
6.0	81.0	26.4	163 000 *
6.5	79.8	26.3	156 600 *
7.0	78.6	26.2	146 200 *
7.5	77.4	26.1	135 600 *
8.0	76.2	26.0	126 800 *
8.5	75.0	25.8	118 900 *
9.0	73.8	25.7	111 900 *
10.0	71.3	25.3	99 800 *
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	150 700 *
6.0	82.0	29.5	149 600 *
6.5	81.0	29.4	146 900 *
7.0	79.9	29.3	142 900 *
7.5	78.9	29.2	136 100 *
8.0	77.8	29.1	126 600 *
8.5	76.7	29.0	118 700 *
9.0	75.6	28.9	111 700 *
10.0	73.4	28.6	99 600 *
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	144 200 *
6.5	81.9	32.5	142 100 *
7.0	80.9	32.5	139 700 *
7.5	80.0	32.4	135 900 *
8.0	79.0	32.3	126 800 *
8.5	78.1	32.1	119 000 *
9.0	77.1	32.0	111 900 *
10.0	75.1	31.7	99 800 *
11.0	73.2	31.4	88 400 *
12.0	71.2	31.1	76 700 *

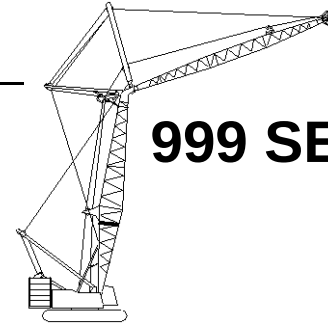
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	131 400 *
7.0	81.8	35.5	130 100 *
7.5	80.9	35.5	127 900 *
8.0	80.0	35.4	125 400 *
8.5	79.2	35.3	118 700 *
9.0	78.3	35.2	111 700 *
10.0	76.5	34.9	99 500 *
11.0	74.8	34.6	88 400 *
12.0	73.0	34.3	76 700 *
13.0	71.2	34.0	67 300 *
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	127 500 *
7.0	82.5	38.6	126 300 *
7.5	81.7	38.6	124 300 *
8.0	80.9	38.5	122 300 *
8.5	80.1	38.4	118 500 *
9.0	79.3	38.3	112 100 *
10.0	77.7	38.0	99 600 *
11.0	76.1	37.8	88 700 *
12.0	74.4	37.5	76 900 *
13.0	72.8	37.2	67 500 *
14.0	71.1	36.8	59 800 *
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	114 900 *
7.5	82.3	41.6	113 900 *
8.0	81.6	41.6	111 300 *
8.5	80.9	41.5	108 700 *
9.0	80.1	41.4	106 200 *
10.0	78.6	41.2	99 900 *
11.0	77.2	40.9	88 800 *
12.0	75.7	40.7	76 900 *
13.0	74.2	40.4	67 500 *
14.0	72.6	40.1	59 900 *
15.0	71.1	39.7	53 400 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	108 800 *
8.0	82.2	44.6	108 400 *
8.5	81.5	44.6	105 800 *
9.0	80.8	44.5	103 300 *
10.0	79.5	44.3	98 300 *
11.0	78.1	44.1	88 900 *
12.0	76.7	43.8	77 100 *
13.0	75.3	43.6	67 600 *
14.0	73.9	43.3	60 000 *
15.0	72.5	43.0	53 600 *
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	97 800 *
8.0	82.7	47.7	97 500 *
8.5	82.1	47.6	95 400 *
9.0	81.4	47.6	93 400 *
10.0	80.2	47.4	89 600 *
11.0	78.9	47.2	85 800 *
12.0	77.6	47.0	77 300 *
13.0	76.3	46.7	67 600 *
14.0	75.0	46.4	59 900 *
15.0	73.7	46.2	53 400 *
16.0	72.4	45.8	48 000 *

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	91 400 *
9.0	82.0	50.7	89 600 *
10.0	80.8	50.5	85 900 *
11.0	79.6	50.3	82 300 *
12.0	78.4	50.1	77 000
13.0	77.2	49.9	67 600
14.0	76.0	49.6	59 900
15.0	74.8	49.3	53 400
16.0	73.5	49.0	48 000
18.0	71.1	48.4	39 300
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	85 200 *
9.0	82.5	53.7	83 700 *
10.0	81.3	53.6	80 600 *
11.0	80.2	53.4	77 500 *
12.0	79.1	53.2	74 600 *
13.0	78.0	53.0	67 700
14.0	76.8	52.8	59 800
15.0	75.7	52.5	53 400
16.0	74.5	52.2	47 900
18.0	72.2	51.6	39 200

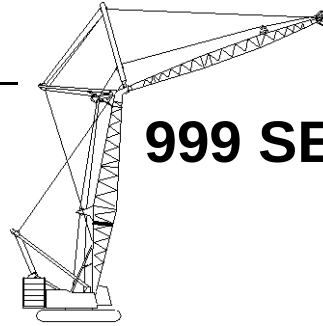
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	79 300 *
10.0	81.8	56.7	76 700 *
11.0	80.8	56.5	73 800 *
12.0	79.7	56.3	71 000 *
13.0	78.6	56.1	67 600
14.0	77.6	55.9	59 800
15.0	76.5	55.6	53 400
16.0	75.4	55.4	47 900
18.0	73.2	54.8	39 200
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	52 700
16.0	76.2	58.5	49 100
18.0	74.2	58.0	39 400
20.0	72.1	57.3	32 700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	177 000 *
5.5	81.1	23.4	173 000 *
6.0	79.7	23.3	169 100 *
6.5	78.4	23.2	158 400 *
7.0	77.0	23.1	145 500 *
7.5	75.6	23.0	135 400 *
8.0	74.2	22.8	126 600 *
8.5	72.8	22.6	118 700 *
9.0	71.3	22.5	111 600 *
10.0	68.4	22.1	99 400 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	168 300 *
5.5	82.2	26.5	166 100 *
6.0	81.0	26.4	162 900 *
6.5	79.8	26.3	156 500 *
7.0	78.6	26.2	146 000 *
7.5	77.4	26.1	135 400 *
8.0	76.2	26.0	126 500 *
8.5	75.0	25.8	118 600 *
9.0	73.8	25.7	111 500 *
10.0	71.3	25.3	99 400 *
11.0	68.8	24.9	87 300
12.0	66.2	24.5	75 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	150 500 *
6.0	82.0	29.5	149 500 *
6.5	81.0	29.4	146 700 *
7.0	79.9	29.3	142 700 *
7.5	78.9	29.2	135 900 *
8.0	77.8	29.1	126 400 *
8.5	76.7	29.0	118 500 *
9.0	75.6	28.9	111 400 *
10.0	73.4	28.6	99 200 *
11.0	71.2	28.2	87 600
12.0	69.0	27.8	75 800
13.0	66.7	27.4	66 400
14.0	64.4	26.9	58 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	144 100 *
6.5	81.9	32.5	142 000 *
7.0	80.9	32.5	139 500 *
7.5	80.0	32.4	135 700 *
8.0	79.0	32.3	126 600 *
8.5	78.1	32.1	118 700 *
9.0	77.1	32.0	111 600 *
10.0	75.1	31.7	99 500 *
11.0	73.2	31.4	88 000
12.0	71.2	31.1	76 200
13.0	69.2	30.7	66 900
14.0	67.1	30.3	59 200
15.0	65.1	29.8	52 800
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	131 200 *
7.0	81.8	35.5	129 900 *
7.5	80.9	35.5	127 700 *
8.0	80.0	35.4	125 200 *
8.5	79.2	35.3	118 500 *
9.0	78.3	35.2	111 500 *
10.0	76.5	34.9	99 200 *
11.0	74.8	34.6	88 100
12.0	73.0	34.3	76 300
13.0	71.2	34.0	66 900
14.0	69.3	33.6	59 200
15.0	67.5	33.2	52 800
16.0	65.6	32.7	47 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	127 400 *
7.0	82.5	38.6	126 200 *
7.5	81.7	38.6	124 100 *
8.0	80.9	38.5	122 000 *
8.5	80.1	38.4	118 300 *
9.0	79.3	38.3	111 900 *
10.0	77.7	38.0	99 300 *
11.0	76.1	37.8	88 400
12.0	74.4	37.5	76 500
13.0	72.8	37.2	67 100
14.0	71.1	36.8	59 400
15.0	69.5	36.5	53 000
16.0	67.8	36.1	47 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	114 800 *
7.5	82.3	41.6	113 800 *
8.0	81.6	41.6	111 100 *
8.5	80.9	41.5	108 500 *
9.0	80.1	41.4	105 900 *
10.0	78.6	41.2	99 700 *
11.0	77.2	40.9	88 500
12.0	75.7	40.7	76 600
13.0	74.2	40.4	67 200
14.0	72.6	40.1	59 500
15.0	71.1	39.7	53 100
16.0	69.6	39.4	47 600
18.0	66.4	38.5	38 900
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	108 600 *
8.0	82.2	44.6	108 200 *
8.5	81.5	44.6	105 600 *
9.0	80.8	44.5	103 200 *
10.0	79.5	44.3	98 000 *
11.0	78.1	44.1	88 700
12.0	76.7	43.8	76 800
13.0	75.3	43.6	67 300
14.0	73.9	43.3	59 700
15.0	72.5	43.0	53 200
16.0	71.1	42.6	47 700
18.0	68.2	41.8	39 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	97 600 *
8.0	82.7	47.7	97 300 *
8.5	82.1	47.6	95 200 *
9.0	81.4	47.6	93 200 *
10.0	80.2	47.4	89 300 *
11.0	78.9	47.2	85 500
12.0	77.6	47.0	77 100
13.0	76.3	46.7	67 300
14.0	75.0	46.4	59 600
15.0	73.7	46.2	53 100
16.0	72.4	45.8	47 600
18.0	69.7	45.1	38 900
20.0	67.0	44.3	32 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

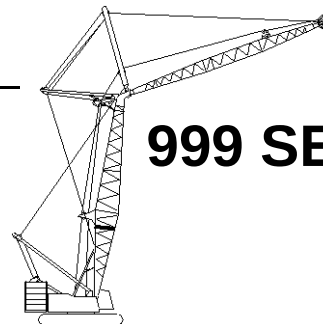
Luffing Jib No. 135

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	91 300 *
9.0	82.0	50.7	89 500 *
10.0	80.8	50.5	85 700 *
11.0	79.6	50.3	82 100 *
12.0	78.4	50.1	76 800
13.0	77.2	49.9	67 300
14.0	76.0	49.6	59 600
15.0	74.8	49.3	53 100
16.0	73.5	49.0	47 700
18.0	71.1	48.4	38 900
20.0	68.5	47.6	32 300
22.0	66.0	46.7	27 000
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	85 000 *
9.0	82.5	53.7	83 500 *
10.0	81.3	53.6	80 300 *
11.0	80.2	53.4	77 300 *
12.0	79.1	53.2	74 400 *
13.0	78.0	53.0	67 400
14.0	76.8	52.8	59 600
15.0	75.7	52.5	53 100
16.0	74.5	52.2	47 600
18.0	72.2	51.6	38 900
20.0	69.9	50.9	32 200
22.0	67.5	50.1	26 900
24.0	65.1	49.2	22 700

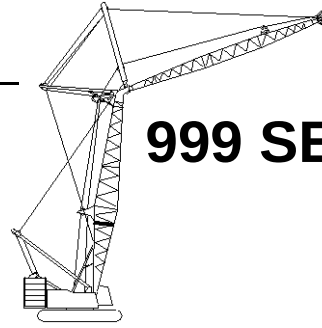
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	79 100 *
10.0	81.8	56.7	76 500 *
11.0	80.8	56.5	73 500 *
12.0	79.7	56.3	70 700 *
13.0	78.6	56.1	67 400
14.0	77.6	55.9	59 600
15.0	76.5	55.6	53 100
16.0	75.4	55.4	47 600
18.0	73.2	54.8	38 900
20.0	71.0	54.1	32 200
22.0	68.8	53.4	26 900
24.0	66.5	52.5	22 600
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	52 500
16.0	76.2	58.5	48 800
18.0	74.2	58.0	39 000
20.0	72.1	57.3	32 400
22.0	70.0	56.6	27 100
24.0	67.8	55.8	22 800
26.0	65.7	54.9	19 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	175 300 *
5.5	81.1	23.4	171 700 *
6.0	79.7	23.3	167 700 *
6.5	78.4	23.2	157 100 *
7.0	77.0	23.1	144 200 *
7.5	75.6	23.0	134 200 *
8.0	74.2	22.8	125 400 *
8.5	72.8	22.6	117 500 *
9.0	71.3	22.5	110 400 *
10.0	68.4	22.1	98 300
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	167 000 *
5.5	82.2	26.5	164 800 *
6.0	81.0	26.4	161 600 *
6.5	79.8	26.3	155 200 *
7.0	78.6	26.2	144 800 *
7.5	77.4	26.1	134 200 *
8.0	76.2	26.0	125 400 *
8.5	75.0	25.8	117 500 *
9.0	73.8	25.7	110 400 *
10.0	71.3	25.3	98 300 *
11.0	68.8	24.9	85 900
12.0	66.2	24.5	74 300
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	149 500 *
6.0	82.0	29.5	148 300 *
6.5	81.0	29.4	145 500 *
7.0	79.9	29.3	141 500 *
7.5	78.9	29.2	134 800 *
8.0	77.8	29.1	125 200 *
8.5	76.7	29.0	117 400 *
9.0	75.6	28.9	110 300 *
10.0	73.4	28.6	98 200 *
11.0	71.2	28.2	86 200
12.0	69.0	27.8	74 600
13.0	66.7	27.4	65 300
14.0	64.4	26.9	57 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	142 900 *
6.5	81.9	32.5	140 900 *
7.0	80.9	32.5	138 400 *
7.5	80.0	32.4	134 600 *
8.0	79.0	32.3	125 600 *
8.5	78.1	32.1	117 600 *
9.0	77.1	32.0	110 600 *
10.0	75.1	31.7	98 500 *
11.0	73.2	31.4	86 700
12.0	71.2	31.1	75 100
13.0	69.2	30.7	65 700
14.0	67.1	30.3	58 100
15.0	65.1	29.8	51 800
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	130 200 *
7.0	81.8	35.5	128 900 *
7.5	80.9	35.5	126 700 *
8.0	80.0	35.4	124 200 *
8.5	79.2	35.3	117 500 *
9.0	78.3	35.2	110 500 *
10.0	76.5	34.9	98 300 *
11.0	74.8	34.6	86 900
12.0	73.0	34.3	75 100
13.0	71.2	34.0	65 800
14.0	69.3	33.6	58 200
15.0	67.5	33.2	51 800
16.0	65.6	32.7	46 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	126 500 *
7.0	82.5	38.6	125 300 *
7.5	81.7	38.6	123 200 *
8.0	80.9	38.5	121 100 *
8.5	80.1	38.4	117 300 *
9.0	79.3	38.3	110 900 *
10.0	77.7	38.0	98 400 *
11.0	76.1	37.8	87 200
12.0	74.4	37.5	75 400
13.0	72.8	37.2	66 000
14.0	71.1	36.8	58 400
15.0	69.5	36.5	52 000
16.0	67.8	36.1	46 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	114 200 *
7.5	82.3	41.6	113 100 *
8.0	81.6	41.6	110 400 *
8.5	80.9	41.5	107 800 *
9.0	80.1	41.4	105 300 *
10.0	78.6	41.2	98 800 *
11.0	77.2	40.9	87 300
12.0	75.7	40.7	75 500
13.0	74.2	40.4	66 100
14.0	72.6	40.1	58 500
15.0	71.1	39.7	52 100
16.0	69.6	39.4	46 700
18.0	66.4	38.5	38 100
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	108 000 *
8.0	82.2	44.6	107 600 *
8.5	81.5	44.6	105 000 *
9.0	80.8	44.5	102 500 *
10.0	79.5	44.3	97 300 *
11.0	78.1	44.1	87 500
12.0	76.7	43.8	75 700
13.0	75.3	43.6	66 300
14.0	73.9	43.3	58 700
15.0	72.5	43.0	52 300
16.0	71.1	42.6	46 800
18.0	68.2	41.8	38 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	97 000 *
8.0	82.7	47.7	96 700 *
8.5	82.1	47.6	94 600 *
9.0	81.4	47.6	92 600 *
10.0	80.2	47.4	88 700 *
11.0	78.9	47.2	84 900
12.0	77.6	47.0	76 000
13.0	76.3	46.7	66 300
14.0	75.0	46.4	58 600
15.0	73.7	46.2	52 200
16.0	72.4	45.8	46 800
18.0	69.7	45.1	38 100
20.0	67.0	44.3	31 500



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

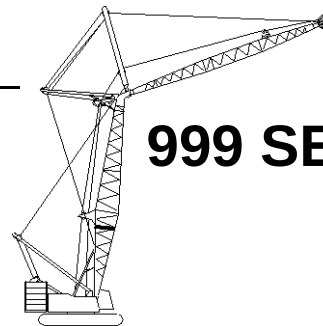
Luffing Jib No. 135

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	90 600 *
9.0	82.0	50.7	88 800 *
10.0	80.8	50.5	85 000 *
11.0	79.6	50.3	81 500 *
12.0	78.4	50.1	75 900
13.0	77.2	49.9	66 400
14.0	76.0	49.6	58 700
15.0	74.8	49.3	52 200
16.0	73.5	49.0	46 800
18.0	71.1	48.4	38 100
20.0	68.5	47.6	31 600
22.0	66.0	46.7	26 300
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	84 400 *
9.0	82.5	53.7	82 900 *
10.0	81.3	53.6	79 800 *
11.0	80.2	53.4	76 700 *
12.0	79.1	53.2	73 700 *
13.0	78.0	53.0	66 400
14.0	76.8	52.8	58 700
15.0	75.7	52.5	52 200
16.0	74.5	52.2	46 800
18.0	72.2	51.6	38 100
20.0	69.9	50.9	31 500
22.0	67.5	50.1	26 200
24.0	65.1	49.2	22 000

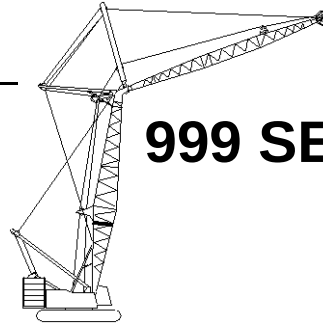
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 500 *
10.0	81.8	56.7	75 900 *
11.0	80.8	56.5	72 900 *
12.0	79.7	56.3	70 100 *
13.0	78.6	56.1	66 700
14.0	77.6	55.9	58 700
15.0	76.5	55.6	52 200
16.0	75.4	55.4	46 800
18.0	73.2	54.8	38 100
20.0	71.0	54.1	31 500
22.0	68.8	53.4	26 200
24.0	66.5	52.5	22 000
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	52 000
16.0	76.2	58.5	47 500
18.0	74.2	58.0	38 300
20.0	72.1	57.3	31 600
22.0	70.0	56.6	26 400
24.0	67.8	55.8	22 100
26.0	65.7	54.9	18 600



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	176 400 *
5.5	81.1	23.4	172 300 *
6.0	79.7	23.3	168 400 *
6.5	78.4	23.2	157 700 *
7.0	77.0	23.1	144 700 *
7.5	75.6	23.0	134 600 *
8.0	74.2	22.8	125 600 *
8.5	72.8	22.6	117 700 *
9.0	71.3	22.5	110 500 *
10.0	68.4	22.1	98 300 *
11.0	65.5	21.6	85 400
12.0	62.5	21.1	73 600
13.0	59.3	20.5	64 300
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	167 800 *
5.5	82.2	26.5	165 600 *
6.0	81.0	26.4	162 300 *
6.5	79.8	26.3	155 800 *
7.0	78.6	26.2	145 400 *
7.5	77.4	26.1	134 600 *
8.0	76.2	26.0	125 700 *
8.5	75.0	25.8	117 800 *
9.0	73.8	25.7	110 600 *
10.0	71.3	25.3	98 400 *
11.0	68.8	24.9	86 000
12.0	66.2	24.5	74 200
13.0	63.5	24.0	64 800
14.0	60.9	23.4	57 200
15.0	58.1	22.8	50 800
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	150 300 *
6.0	82.0	29.5	149 000 *
6.5	81.0	29.4	146 100 *
7.0	79.9	29.3	142 000 *
7.5	78.9	29.2	135 200 *
8.0	77.8	29.1	125 600 *
8.5	76.7	29.0	117 700 *
9.0	75.6	28.9	110 600 *
10.0	73.4	28.6	98 300 *
11.0	71.2	28.2	86 400
12.0	69.0	27.8	74 600
13.0	66.7	27.4	65 200
14.0	64.4	26.9	57 500
15.0	62.0	26.4	51 100
16.0	59.6	25.8	45 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	143 600 *
6.5	81.9	32.5	141 500 *
7.0	80.9	32.5	139 000 *
7.5	80.0	32.4	135 100 *
8.0	79.0	32.3	126 000 *
8.5	78.1	32.1	118 000 *
9.0	77.1	32.0	110 900 *
10.0	75.1	31.7	98 700 *
11.0	73.2	31.4	87 000
12.0	71.2	31.1	75 100
13.0	69.2	30.7	65 700
14.0	67.1	30.3	58 000
15.0	65.1	29.8	51 600
16.0	62.9	29.3	46 100
18.0	58.6	28.1	37 500
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	130 700 *
7.0	81.8	35.5	129 400 *
7.5	80.9	35.5	127 200 *
8.0	80.0	35.4	124 600 *
8.5	79.2	35.3	117 900 *
9.0	78.3	35.2	110 900 *
10.0	76.5	34.9	98 500 *
11.0	74.8	34.6	87 200
12.0	73.0	34.3	75 400
13.0	71.2	34.0	65 900
14.0	69.3	33.6	58 200
15.0	67.5	33.2	51 700
16.0	65.6	32.7	46 300
18.0	61.7	31.7	37 500
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	126 900 *
7.0	82.5	38.6	125 600 *
7.5	81.7	38.6	123 600 *
8.0	80.9	38.5	121 500 *
8.5	80.1	38.4	117 700 *
9.0	79.3	38.3	111 300 *
10.0	77.7	38.0	98 700 *
11.0	76.1	37.8	87 500
12.0	74.4	37.5	75 600
13.0	72.8	37.2	66 200
14.0	71.1	36.8	58 400
15.0	69.5	36.5	52 000
16.0	67.8	36.1	46 500
18.0	64.3	35.1	37 800
20.0	60.7	34.0	31 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	114 400 *
7.5	82.3	41.6	113 400 *
8.0	81.6	41.6	110 600 *
8.5	80.9	41.5	108 000 *
9.0	80.1	41.4	105 400 *
10.0	78.6	41.2	99 100 *
11.0	77.2	40.9	87 700
12.0	75.7	40.7	75 800
13.0	74.2	40.4	66 300
14.0	72.6	40.1	58 600
15.0	71.1	39.7	52 100
16.0	69.6	39.4	46 700
18.0	66.4	38.5	37 900
20.0	63.2	37.5	31 300
22.0	59.9	36.4	26 000
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	108 100 *
8.0	82.2	44.6	107 700 *
8.5	81.5	44.6	105 200 *
9.0	80.8	44.5	102 700 *
10.0	79.5	44.3	97 500 *
11.0	78.1	44.1	87 900
12.0	76.7	43.8	76 000
13.0	75.3	43.6	66 500
14.0	73.9	43.3	58 800
15.0	72.5	43.0	52 300
16.0	71.1	42.6	46 800
18.0	68.2	41.8	38 100
20.0	65.3	40.9	31 500
22.0	62.2	39.9	26 200
24.0	59.1	38.7	21 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	97 200 *
8.0	82.7	47.7	96 900 *
8.5	82.1	47.6	94 800 *
9.0	81.4	47.6	92 700 *
10.0	80.2	47.4	88 800 *
11.0	78.9	47.2	85 000
12.0	77.6	47.0	76 400
13.0	76.3	46.7	66 500
14.0	75.0	46.4	58 700
15.0	73.7	46.2	52 300
16.0	72.4	45.8	46 800
18.0	69.7	45.1	38 000
20.0	67.0	44.3	31 400
22.0	64.3	43.3	26 100
24.0	61.4	42.3	21 800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

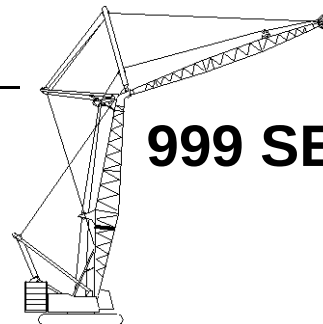
Luffing Jib No. 135

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	90 800 *
9.0	82.0	50.7	89 000 *
10.0	80.8	50.5	85 200 *
11.0	79.6	50.3	81 500 *
12.0	78.4	50.1	76 200
13.0	77.2	49.9	66 600
14.0	76.0	49.6	58 800
15.0	74.8	49.3	52 400
16.0	73.5	49.0	46 900
18.0	71.1	48.4	38 100
20.0	68.5	47.6	31 400
22.0	66.0	46.7	26 100
24.0	63.4	45.7	21 800
26.0	60.7	44.6	18 300
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	84 600 *
9.0	82.5	53.7	83 100 *
10.0	81.3	53.6	79 900 *
11.0	80.2	53.4	76 800 *
12.0	79.1	53.2	73 800 *
13.0	78.0	53.0	66 800
14.0	76.8	52.8	58 800
15.0	75.7	52.5	52 400
16.0	74.5	52.2	46 900
18.0	72.2	51.6	38 100
20.0	69.9	50.9	31 400
22.0	67.5	50.1	26 100
24.0	65.1	49.2	21 800
26.0	62.6	48.1	18 300
28.0	60.0	47.0	15 300

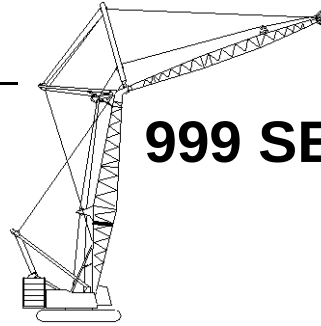
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 600 *
10.0	81.8	56.7	76 000 *
11.0	80.8	56.5	73 000 *
12.0	79.7	56.3	70 200 *
13.0	78.6	56.1	66 800
14.0	77.6	55.9	58 900
15.0	76.5	55.6	52 400
16.0	75.4	55.4	46 900
18.0	73.2	54.8	38 100
20.0	71.0	54.1	31 400
22.0	68.8	53.4	26 100
24.0	66.5	52.5	21 800
26.0	64.2	51.6	18 300
28.0	61.9	50.5	15 300
30.0	59.5	49.4	12 700
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	52 100
16.0	76.2	58.5	47 700
18.0	74.2	58.0	38 300
20.0	72.1	57.3	31 600
22.0	70.0	56.6	26 200
24.0	67.8	55.8	22 000
26.0	65.7	54.9	18 400
28.0	63.5	54.0	15 400
30.0	61.2	52.9	12 900
32.0	58.9	51.7	10 700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	175 200 *
5.5	81.1	23.4	171 200 *
6.0	79.7	23.3	167 300 *
6.5	78.4	23.2	156 900 *
7.0	77.0	23.1	143 800 *
7.5	75.6	23.0	133 700 *
8.0	74.2	22.8	124 900 *
8.5	72.8	22.6	116 900 *
9.0	71.3	22.5	109 800 *
10.0	68.4	22.1	97 500
11.0	65.5	21.6	84 300
12.0	62.5	21.1	72 600
13.0	59.3	20.5	63 400
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	166 700 *
5.5	82.2	26.5	164 500 *
6.0	81.0	26.4	161 200 *
6.5	79.8	26.3	154 900 *
7.0	78.6	26.2	144 600 *
7.5	77.4	26.1	133 800 *
8.0	76.2	26.0	124 900 *
8.5	75.0	25.8	117 000 *
9.0	73.8	25.7	109 900 *
10.0	71.3	25.3	97 700 *
11.0	68.8	24.9	85 000
12.0	66.2	24.5	73 300
13.0	63.5	24.0	64 000
14.0	60.9	23.4	56 300
15.0	58.1	22.8	50 000
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	149 300 *
6.0	82.0	29.5	148 000 *
6.5	81.0	29.4	145 100 *
7.0	79.9	29.3	141 100 *
7.5	78.9	29.2	134 500 *
8.0	77.8	29.1	124 900 *
8.5	76.7	29.0	117 000 *
9.0	75.6	28.9	109 900 *
10.0	73.4	28.6	97 700 *
11.0	71.2	28.2	85 500
12.0	69.0	27.8	73 800
13.0	66.7	27.4	64 400
14.0	64.4	26.9	56 700
15.0	62.0	26.4	50 300
16.0	59.6	25.8	44 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	142 600 *
6.5	81.9	32.5	140 500 *
7.0	80.9	32.5	138 000 *
7.5	80.0	32.4	134 200 *
8.0	79.0	32.3	125 300 *
8.5	78.1	32.1	117 300 *
9.0	77.1	32.0	110 200 *
10.0	75.1	31.7	98 000 *
11.0	73.2	31.4	86 100
12.0	71.2	31.1	74 300
13.0	69.2	30.7	65 000
14.0	67.1	30.3	57 300
15.0	65.1	29.8	50 900
16.0	62.9	29.3	45 500
18.0	58.6	28.1	36 900
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	129 800 *
7.0	81.8	35.5	128 500 *
7.5	80.9	35.5	126 300 *
8.0	80.0	35.4	123 700 *
8.5	79.2	35.3	117 200 *
9.0	78.3	35.2	110 200 *
10.0	76.5	34.9	97 900 *
11.0	74.8	34.6	86 300
12.0	73.0	34.3	74 500
13.0	71.2	34.0	65 100
14.0	69.3	33.6	57 500
15.0	67.5	33.2	51 000
16.0	65.6	32.7	45 600
18.0	61.7	31.7	37 000
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	126 000 *
7.0	82.5	38.6	124 800 *
7.5	81.7	38.6	122 800 *
8.0	80.9	38.5	120 700 *
8.5	80.1	38.4	117 100 *
9.0	79.3	38.3	110 700 *
10.0	77.7	38.0	98 000 *
11.0	76.1	37.8	86 700
12.0	74.4	37.5	74 900
13.0	72.8	37.2	65 500
14.0	71.1	36.8	57 700
15.0	69.5	36.5	51 400
16.0	67.8	36.1	45 900
18.0	64.3	35.1	37 200
20.0	60.7	34.0	30 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	113 800 *
7.5	82.3	41.6	112 800 *
8.0	81.6	41.6	110 000 *
8.5	80.9	41.5	107 400 *
9.0	80.1	41.4	104 900 *
10.0	78.6	41.2	98 400 *
11.0	77.2	40.9	86 900
12.0	75.7	40.7	75 100
13.0	74.2	40.4	65 600
14.0	72.6	40.1	57 900
15.0	71.1	39.7	51 500
16.0	69.6	39.4	46 000
18.0	66.4	38.5	37 400
20.0	63.2	37.5	30 800
22.0	59.9	36.4	25 500
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	107 500 *
8.0	82.2	44.6	107 200 *
8.5	81.5	44.6	104 600 *
9.0	80.8	44.5	102 100 *
10.0	79.5	44.3	96 900 *
11.0	78.1	44.1	87 200
12.0	76.7	43.8	75 300
13.0	75.3	43.6	65 900
14.0	73.9	43.3	58 200
15.0	72.5	43.0	51 700
16.0	71.1	42.6	46 300
18.0	68.2	41.8	37 600
20.0	65.3	40.9	31 000
22.0	62.2	39.9	25 700
24.0	59.1	38.7	21 500
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	96 600 *
8.0	82.7	47.7	96 300 *
8.5	82.1	47.6	94 200 *
9.0	81.4	47.6	92 200 *
10.0	80.2	47.4	88 300 *
11.0	78.9	47.2	84 400
12.0	77.6	47.0	75 600
13.0	76.3	46.7	65 900
14.0	75.0	46.4	58 200
15.0	73.7	46.2	51 700
16.0	72.4	45.8	46 200
18.0	69.7	45.1	37 500
20.0	67.0	44.3	30 900
22.0	64.3	43.3	25 600
24.0	61.4	42.3	21 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

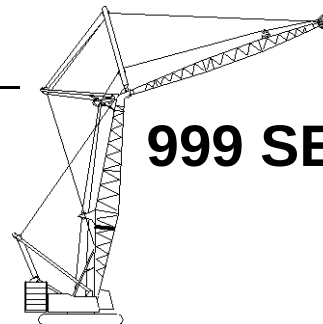
Luffing Jib No. 135

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	90 300 *
9.0	82.0	50.7	88 400 *
10.0	80.8	50.5	84 600 *
11.0	79.6	50.3	81 000 *
12.0	78.4	50.1	75 600
13.0	77.2	49.9	66 000
14.0	76.0	49.6	58 200
15.0	74.8	49.3	51 800
16.0	73.5	49.0	46 300
18.0	71.1	48.4	37 600
20.0	68.5	47.6	31 000
22.0	66.0	46.7	25 700
24.0	63.4	45.7	21 400
26.0	60.7	44.6	17 900
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	84 000 *
9.0	82.5	53.7	82 500 *
10.0	81.3	53.6	79 300 *
11.0	80.2	53.4	76 300 *
12.0	79.1	53.2	73 300 *
13.0	78.0	53.0	66 100
14.0	76.8	52.8	58 200
15.0	75.7	52.5	51 800
16.0	74.5	52.2	46 300
18.0	72.2	51.6	37 600
20.0	69.9	50.9	30 900
22.0	67.5	50.1	25 700
24.0	65.1	49.2	21 400
26.0	62.6	48.1	17 900
28.0	60.0	47.0	14 900

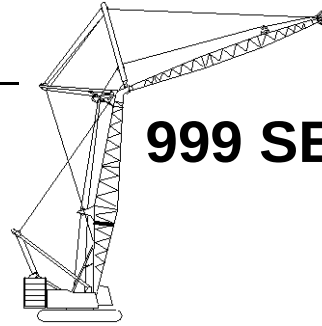
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 100 *
10.0	81.8	56.7	75 500 *
11.0	80.8	56.5	72 500 *
12.0	79.7	56.3	69 700 *
13.0	78.6	56.1	66 300
14.0	77.6	55.9	58 300
15.0	76.5	55.6	51 800
16.0	75.4	55.4	46 300
18.0	73.2	54.8	37 600
20.0	71.0	54.1	31 000
22.0	68.8	53.4	25 700
24.0	66.5	52.5	21 400
26.0	64.2	51.6	17 900
28.0	61.9	50.5	14 900
30.0	59.5	49.4	12 400
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	51 800
16.0	76.2	58.5	47 000
18.0	74.2	58.0	37 800
20.0	72.1	57.3	31 100
22.0	70.0	56.6	25 800
24.0	67.8	55.8	21 600
26.0	65.7	54.9	18 000
28.0	63.5	54.0	15 100
30.0	61.2	52.9	12 600
32.0	58.9	51.7	10 400



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	173 400 *
5.5	81.1	23.4	169 500 *
6.0	79.7	23.3	165 800 *
6.5	78.4	23.2	155 600 *
7.0	77.0	23.1	142 500 *
7.5	75.6	23.0	132 400 *
8.0	74.2	22.8	123 500 *
8.5	72.8	22.6	115 600 *
9.0	71.3	22.5	108 500 *
10.0	68.4	22.1	96 100
11.0	65.5	21.6	82 700
12.0	62.5	21.1	71 100
13.0	59.3	20.5	61 900
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	165 100 *
5.5	82.2	26.5	162 900 *
6.0	81.0	26.4	159 600 *
6.5	79.8	26.3	153 400 *
7.0	78.6	26.2	143 300 *
7.5	77.4	26.1	132 600 *
8.0	76.2	26.0	123 700 *
8.5	75.0	25.8	115 800 *
9.0	73.8	25.7	108 700 *
10.0	71.3	25.3	96 500
11.0	68.8	24.9	83 500
12.0	66.2	24.5	71 900
13.0	63.5	24.0	62 600
14.0	60.9	23.4	55 000
15.0	58.1	22.8	48 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	147 800 *
6.0	82.0	29.5	146 500 *
6.5	81.0	29.4	143 600 *
7.0	79.9	29.3	139 700 *
7.5	78.9	29.2	133 300 *
8.0	77.8	29.1	123 700 *
8.5	76.7	29.0	115 800 *
9.0	75.6	28.9	108 700 *
10.0	73.4	28.6	96 600 *
11.0	71.2	28.2	84 000
12.0	69.0	27.8	72 400
13.0	66.7	27.4	63 100
14.0	64.4	26.9	55 500
15.0	62.0	26.4	49 100
16.0	59.6	25.8	43 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	141 100 *
6.5	81.9	32.5	139 100 *
7.0	80.9	32.5	136 500 *
7.5	80.0	32.4	132 700 *
8.0	79.0	32.3	124 100 *
8.5	78.1	32.1	116 200 *
9.0	77.1	32.0	109 100 *
10.0	75.1	31.7	97 000 *
11.0	73.2	31.4	84 700
12.0	71.2	31.1	73 000
13.0	69.2	30.7	63 700
14.0	67.1	30.3	56 100
15.0	65.1	29.8	49 700
16.0	62.9	29.3	44 300
18.0	58.6	28.1	35 800
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	128 600 *
7.0	81.8	35.5	127 300 *
7.5	80.9	35.5	125 000 *
8.0	80.0	35.4	122 400 *
8.5	79.2	35.3	116 100 *
9.0	78.3	35.2	109 100 *
10.0	76.5	34.9	96 800 *
11.0	74.8	34.6	85 000
12.0	73.0	34.3	73 200
13.0	71.2	34.0	63 900
14.0	69.3	33.6	56 200
15.0	67.5	33.2	49 900
16.0	65.6	32.7	44 500
18.0	61.7	31.7	35 900
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	124 900 *
7.0	82.5	38.6	123 600 *
7.5	81.7	38.6	121 600 *
8.0	80.9	38.5	119 500 *
8.5	80.1	38.4	116 000 *
9.0	79.3	38.3	109 600 *
10.0	77.7	38.0	97 000 *
11.0	76.1	37.8	85 300
12.0	74.4	37.5	73 600
13.0	72.8	37.2	64 200
14.0	71.1	36.8	56 600
15.0	69.5	36.5	50 300
16.0	67.8	36.1	44 900
18.0	64.3	35.1	36 200
20.0	60.7	34.0	29 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	112 900 *
7.5	82.3	41.6	111 900 *
8.0	81.6	41.6	109 200 *
8.5	80.9	41.5	106 500 *
9.0	80.1	41.4	104 000 *
10.0	78.6	41.2	97 400 *
11.0	77.2	40.9	85 600
12.0	75.7	40.7	73 800
13.0	74.2	40.4	64 500
14.0	72.6	40.1	56 800
15.0	71.1	39.7	50 400
16.0	69.6	39.4	45 000
18.0	66.4	38.5	36 400
20.0	63.2	37.5	29 800
22.0	59.9	36.4	24 600
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	106 700 *
8.0	82.2	44.6	106 300 *
8.5	81.5	44.6	103 700 *
9.0	80.8	44.5	101 200 *
10.0	79.5	44.3	96 000 *
11.0	78.1	44.1	85 900
12.0	76.7	43.8	74 100
13.0	75.3	43.6	64 700
14.0	73.9	43.3	57 100
15.0	72.5	43.0	50 700
16.0	71.1	42.6	45 300
18.0	68.2	41.8	36 600
20.0	65.3	40.9	30 000
22.0	62.2	39.9	24 800
24.0	59.1	38.7	20 600
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	95 700 *
8.0	82.7	47.7	95 400 *
8.5	82.1	47.6	93 400 *
9.0	81.4	47.6	91 300 *
10.0	80.2	47.4	87 400 *
11.0	78.9	47.2	83 600
12.0	77.6	47.0	74 400
13.0	76.3	46.7	64 700
14.0	75.0	46.4	57 100
15.0	73.7	46.2	50 700
16.0	72.4	45.8	45 200
18.0	69.7	45.1	36 600
20.0	67.0	44.3	30 000
22.0	64.3	43.3	24 700
24.0	61.4	42.3	20 500



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

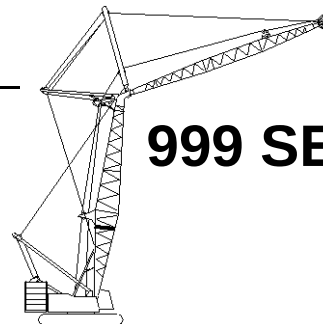
Luffing Jib No. 135

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	89 400 *
9.0	82.0	50.7	87 600 *
10.0	80.8	50.5	83 800 *
11.0	79.6	50.3	80 100 *
12.0	78.4	50.1	74 500
13.0	77.2	49.9	64 900
14.0	76.0	49.6	57 200
15.0	74.8	49.3	50 800
16.0	73.5	49.0	45 300
18.0	71.1	48.4	36 600
20.0	68.5	47.6	30 100
22.0	66.0	46.7	24 800
24.0	63.4	45.7	20 600
26.0	60.7	44.6	17 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	83 200 *
9.0	82.5	53.7	81 700 *
10.0	81.3	53.6	78 500 *
11.0	80.2	53.4	75 400 *
12.0	79.1	53.2	72 400 *
13.0	78.0	53.0	65 000
14.0	76.8	52.8	57 200
15.0	75.7	52.5	50 800
16.0	74.5	52.2	45 300
18.0	72.2	51.6	36 700
20.0	69.9	50.9	30 100
22.0	67.5	50.1	24 800
24.0	65.1	49.2	20 600
26.0	62.6	48.1	17 100
28.0	60.0	47.0	14 100

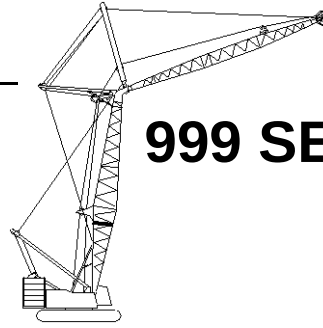
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	77 300 *
10.0	81.8	56.7	74 600 *
11.0	80.8	56.5	71 700 *
12.0	79.7	56.3	68 800 *
13.0	78.6	56.1	65 400
14.0	77.6	55.9	57 300
15.0	76.5	55.6	50 900
16.0	75.4	55.4	45 400
18.0	73.2	54.8	36 700
20.0	71.0	54.1	30 100
22.0	68.8	53.4	24 800
24.0	66.5	52.5	20 600
26.0	64.2	51.6	17 100
28.0	61.9	50.5	14 200
30.0	59.5	49.4	11 700
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	51 600
16.0	76.2	58.5	45 600
18.0	74.2	58.0	36 900
20.0	72.1	57.3	30 300
22.0	70.0	56.6	25 000
24.0	67.8	55.8	20 800
26.0	65.7	54.9	17 300
28.0	63.5	54.0	14 400
30.0	61.2	52.9	11 800
32.0	58.9	51.7	9 700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	175 600 *
5.5	81.1	23.4	171 200 *
6.0	79.7	23.3	167 400 *
6.5	78.4	23.2	156 900 *
7.0	77.0	23.1	143 600 *
7.5	75.6	23.0	133 400 *
8.0	74.2	22.8	124 400 *
8.5	72.8	22.6	116 400 *
9.0	71.3	22.5	109 100 *
10.0	68.4	22.1	96 600
11.0	65.5	21.6	83 200
12.0	62.5	21.1	71 500
13.0	59.3	20.5	62 000
14.0	56.1	19.8	54 300
15.0	52.7	19.0	47 900
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	167 100 *
5.5	82.2	26.5	164 800 *
6.0	81.0	26.4	161 300 *
6.5	79.8	26.3	154 900 *
7.0	78.6	26.2	144 500 *
7.5	77.4	26.1	133 600 *
8.0	76.2	26.0	124 600 *
8.5	75.0	25.8	116 600 *
9.0	73.8	25.7	109 400 *
10.0	71.3	25.3	97 100 *
11.0	68.8	24.9	84 200
12.0	66.2	24.5	72 400
13.0	63.5	24.0	62 900
14.0	60.9	23.4	55 200
15.0	58.1	22.8	48 800
16.0	55.2	22.1	43 300
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	149 500 *
6.0	82.0	29.5	148 100 *
6.5	81.0	29.4	145 100 *
7.0	79.9	29.3	141 100 *
7.5	78.9	29.2	134 400 *
8.0	77.8	29.1	124 700 *
8.5	76.7	29.0	116 700 *
9.0	75.6	28.9	109 500 *

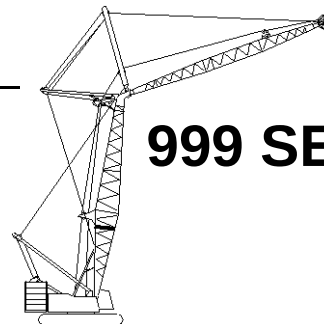
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	97 200 *
11.0	71.2	28.2	84 800
12.0	69.0	27.8	72 900
13.0	66.7	27.4	63 500
14.0	64.4	26.9	55 800
15.0	62.0	26.4	49 300
16.0	59.6	25.8	43 900
18.0	54.5	24.4	35 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	142 700 *
6.5	81.9	32.5	140 600 *
7.0	80.9	32.5	138 000 *
7.5	80.0	32.4	134 000 *
8.0	79.0	32.3	125 200 *
8.5	78.1	32.1	117 200 *
9.0	77.1	32.0	110 000 *
10.0	75.1	31.7	97 600 *
11.0	73.2	31.4	85 600
12.0	71.2	31.1	73 700
13.0	69.2	30.7	64 200
14.0	67.1	30.3	56 500
15.0	65.1	29.8	50 000
16.0	62.9	29.3	44 500
18.0	58.6	28.1	35 800
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	129 900 *
7.0	81.8	35.5	128 500 *
7.5	80.9	35.5	126 200 *
8.0	80.0	35.4	123 500 *
8.5	79.2	35.3	117 100 *
9.0	78.3	35.2	110 100 *
10.0	76.5	34.9	97 600 *
11.0	74.8	34.6	85 900
12.0	73.0	34.3	74 000
13.0	71.2	34.0	64 500
14.0	69.3	33.6	56 700
15.0	67.5	33.2	50 300
16.0	65.6	32.7	44 800
18.0	61.7	31.7	36 000
20.0	57.7	30.4	29 300
22.0	53.5	29.0	24 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	126 000 *
7.0	82.5	38.6	124 800 *
7.5	81.7	38.6	122 700 *
8.0	80.9	38.5	120 500 *
8.5	80.1	38.4	117 000 *
9.0	79.3	38.3	110 600 *
10.0	77.7	38.0	97 800 *
11.0	76.1	37.8	86 400
12.0	74.4	37.5	74 500
13.0	72.8	37.2	64 900
14.0	71.1	36.8	57 200
15.0	69.5	36.5	50 700
16.0	67.8	36.1	45 100
18.0	64.3	35.1	36 400
20.0	60.7	34.0	29 700
22.0	57.0	32.8	24 400
24.0	53.2	31.3	20 100
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	113 700 *
7.5	82.3	41.6	112 600 *
8.0	81.6	41.6	109 900 *
8.5	80.9	41.5	107 200 *
9.0	80.1	41.4	104 600 *
10.0	78.6	41.2	98 300 *
11.0	77.2	40.9	86 700
12.0	75.7	40.7	74 700
13.0	74.2	40.4	65 200
14.0	72.6	40.1	57 400
15.0	71.1	39.7	50 900
16.0	69.6	39.4	45 400
18.0	66.4	38.5	36 600
20.0	63.2	37.5	29 900
22.0	59.9	36.4	24 600
24.0	56.4	35.1	20 300

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	107 400 *
8.0	82.2	44.6	107 000 *
8.5	81.5	44.6	104 400 *
9.0	80.8	44.5	101 900 *
10.0	79.5	44.3	96 700 *
11.0	78.1	44.1	87 000
12.0	76.7	43.8	75 000
13.0	75.3	43.6	65 500
14.0	73.9	43.3	57 700
15.0	72.5	43.0	51 200
16.0	71.1	42.6	45 700
18.0	68.2	41.8	36 900
20.0	65.3	40.9	30 200
22.0	62.2	39.9	24 900
24.0	59.1	38.7	20 600
26.0	55.9	37.4	17 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	96 500 *
8.0	82.7	47.7	96 200 *
8.5	82.1	47.6	94 000 *
9.0	81.4	47.6	92 000 *
10.0	80.2	47.4	88 000 *
11.0	78.9	47.2	84 200
12.0	77.6	47.0	75 400
13.0	76.3	46.7	65 600
14.0	75.0	46.4	57 700
15.0	73.7	46.2	51 200
16.0	72.4	45.8	45 700
18.0	69.7	45.1	36 900
20.0	67.0	44.3	30 200
22.0	64.3	43.3	24 800
24.0	61.4	42.3	20 500
26.0	58.5	41.1	17 000
28.0	55.5	39.7	14 000
30.0	52.3	38.2	11 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	90 100 *
9.0	82.0	50.7	88 200 *
10.0	80.8	50.5	84 400 *
11.0	79.6	50.3	80 700 *
12.0	78.4	50.1	75 300
13.0	77.2	49.9	65 700
14.0	76.0	49.6	57 900
15.0	74.8	49.3	51 400
16.0	73.5	49.0	45 800
18.0	71.1	48.4	37 000
20.0	68.5	47.6	30 300
22.0	66.0	46.7	25 000
24.0	63.4	45.7	20 600
26.0	60.7	44.6	17 100
28.0	57.9	43.4	14 100
30.0	55.1	42.1	11 600
32.0	52.1	40.5	9 300
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	83 900 *
9.0	82.5	53.7	82 300 *
10.0	81.3	53.6	79 100 *
11.0	80.2	53.4	76 000 *
12.0	79.1	53.2	73 000 *
13.0	78.0	53.0	65 900
14.0	76.8	52.8	57 900
15.0	75.7	52.5	51 400
16.0	74.5	52.2	45 900
18.0	72.2	51.6	37 000
20.0	69.9	50.9	30 300
22.0	67.5	50.1	25 000
24.0	65.1	49.2	20 700
26.0	62.6	48.1	17 100
28.0	60.0	47.0	14 100
30.0	57.4	45.8	11 600
32.0	54.7	44.4	9 300

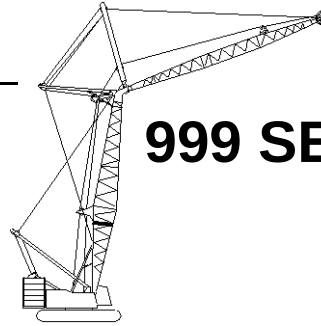
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	77 900 *
10.0	81.8	56.7	75 300 *
11.0	80.8	56.5	72 200 *
12.0	79.7	56.3	69 400 *
13.0	78.6	56.1	65 900
14.0	77.6	55.9	58 000
15.0	76.5	55.6	51 500
16.0	75.4	55.4	45 900
18.0	73.2	54.8	37 100
20.0	71.0	54.1	30 400
22.0	68.8	53.4	25 000
24.0	66.5	52.5	20 700
26.0	64.2	51.6	17 200
28.0	61.9	50.5	14 200
30.0	59.5	49.4	11 600
32.0	57.0	48.1	9 400
34.0	54.4	46.7	7 500
36.0	51.8	45.1	5 600
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	51 600
16.0	76.2	58.5	46 400
18.0	74.2	58.0	37 300
20.0	72.1	57.3	30 600
22.0	70.0	56.6	25 200
24.0	67.8	55.8	20 900
26.0	65.7	54.9	17 400
28.0	63.5	54.0	14 300
30.0	61.2	52.9	11 800
32.0	58.9	51.7	9 600
34.0	56.6	50.4	7 700
36.0	54.1	49.0	6 000



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	174 100 *
5.5	81.1	23.4	169 800 *
6.0	79.7	23.3	166 000 *
6.5	78.4	23.2	155 700 *
7.0	77.0	23.1	142 400 *
7.5	75.6	23.0	132 200 *
8.0	74.2	22.8	123 200 *
8.5	72.8	22.6	115 200 *
9.0	71.3	22.5	108 000 *
10.0	68.4	22.1	95 400
11.0	65.5	21.6	81 700
12.0	62.5	21.1	70 000
13.0	59.3	20.5	60 600
14.0	56.1	19.8	53 000
15.0	52.7	19.0	46 600
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	165 700 *
5.5	82.2	26.5	163 400 *
6.0	81.0	26.4	159 900 *
6.5	79.8	26.3	153 600 *
7.0	78.6	26.2	143 400 *
7.5	77.4	26.1	132 500 *
8.0	76.2	26.0	123 500 *
8.5	75.0	25.8	115 500 *
9.0	73.8	25.7	108 300 *
10.0	71.3	25.3	96 000
11.0	68.8	24.9	82 700
12.0	66.2	24.5	71 000
13.0	63.5	24.0	61 600
14.0	60.9	23.4	53 900
15.0	58.1	22.8	47 500
16.0	55.2	22.1	42 100
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	148 200 *
6.0	82.0	29.5	146 900 *
6.5	81.0	29.4	143 800 *
7.0	79.9	29.3	139 800 *
7.5	78.9	29.2	133 300 *
8.0	77.8	29.1	123 600 *
8.5	76.7	29.0	115 600 *
9.0	75.6	28.9	108 500 *

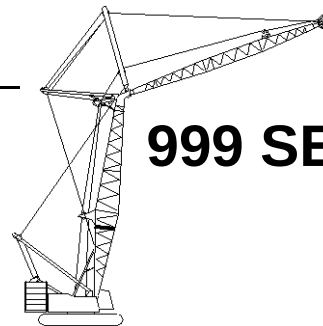
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	96 200 *
11.0	71.2	28.2	83 500
12.0	69.0	27.8	71 700
13.0	66.7	27.4	62 200
14.0	64.4	26.9	54 500
15.0	62.0	26.4	48 100
16.0	59.6	25.8	42 700
18.0	54.5	24.4	34 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	141 500 *
6.5	81.9	32.5	139 300 *
7.0	80.9	32.5	136 700 *
7.5	80.0	32.4	132 800 *
8.0	79.0	32.3	124 200 *
8.5	78.1	32.1	116 100 *
9.0	77.1	32.0	108 900 *
10.0	75.1	31.7	96 700 *
11.0	73.2	31.4	84 300
12.0	71.2	31.1	72 400
13.0	69.2	30.7	63 000
14.0	67.1	30.3	55 300
15.0	65.1	29.8	48 900
16.0	62.9	29.3	43 400
18.0	58.6	28.1	34 700
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	128 900 *
7.0	81.8	35.5	127 500 *
7.5	80.9	35.5	125 100 *
8.0	80.0	35.4	122 400 *
8.5	79.2	35.3	116 100 *
9.0	78.3	35.2	109 100 *
10.0	76.5	34.9	96 600 *
11.0	74.8	34.6	84 700
12.0	73.0	34.3	72 800
13.0	71.2	34.0	63 400
14.0	69.3	33.6	55 700
15.0	67.5	33.2	49 200
16.0	65.6	32.7	43 700
18.0	61.7	31.7	35 000
20.0	57.7	30.4	28 400
22.0	53.5	29.0	23 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	125 000 *
7.0	82.5	38.6	123 700 *
7.5	81.7	38.6	121 600 *
8.0	80.9	38.5	119 500 *
8.5	80.1	38.4	116 000 *
9.0	79.3	38.3	109 600 *
10.0	77.7	38.0	96 800 *
11.0	76.1	37.8	85 200
12.0	74.4	37.5	73 300
13.0	72.8	37.2	63 800
14.0	71.1	36.8	56 100
15.0	69.5	36.5	49 600
16.0	67.8	36.1	44 200
18.0	64.3	35.1	35 400
20.0	60.7	34.0	28 800
22.0	57.0	32.8	23 500
24.0	53.2	31.3	19 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	112 900 *
7.5	82.3	41.6	111 900 *
8.0	81.6	41.6	109 100 *
8.5	80.9	41.5	106 400 *
9.0	80.1	41.4	103 900 *
10.0	78.6	41.2	97 400 *
11.0	77.2	40.9	85 500
12.0	75.7	40.7	73 600
13.0	74.2	40.4	64 100
14.0	72.6	40.1	56 400
15.0	71.1	39.7	49 900
16.0	69.6	39.4	44 400
18.0	66.4	38.5	35 700
20.0	63.2	37.5	29 000
22.0	59.9	36.4	23 700
24.0	56.4	35.1	19 500



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

 Meets
ANSI B30.5
Requirements

999 SERIES 3
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
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	106 600 *
8.0	82.2	44.6	106 200 *
8.5	81.5	44.6	103 600 *
9.0	80.8	44.5	101 100 *
10.0	79.5	44.3	95 800 *
11.0	78.1	44.1	85 900
12.0	76.7	43.8	74 000
13.0	75.3	43.6	64 400
14.0	73.9	43.3	56 700
15.0	72.5	43.0	50 200
16.0	71.1	42.6	44 700
18.0	68.2	41.8	36 000
20.0	65.3	40.9	29 300
22.0	62.2	39.9	24 000
24.0	59.1	38.7	19 700
26.0	55.9	37.4	16 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	95 700 *
8.0	82.7	47.7	95 400 *
8.5	82.1	47.6	93 300 *
9.0	81.4	47.6	91 200 *
10.0	80.2	47.4	87 200 *
11.0	78.9	47.2	83 300
12.0	77.6	47.0	74 400
13.0	76.3	46.7	64 600
14.0	75.0	46.4	56 800
15.0	73.7	46.2	50 300
16.0	72.4	45.8	44 800
18.0	69.7	45.1	36 000
20.0	67.0	44.3	29 300
22.0	64.3	43.3	24 000
24.0	61.4	42.3	19 700
26.0	58.5	41.1	16 200
28.0	55.5	39.7	13 200
30.0	52.3	38.2	10 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	89 300 *
9.0	82.0	50.7	87 400 *
10.0	80.8	50.5	83 600 *
11.0	79.6	50.3	79 900 *
12.0	78.4	50.1	74 400
13.0	77.2	49.9	64 700
14.0	76.0	49.6	56 900
15.0	74.8	49.3	50 400
16.0	73.5	49.0	44 900
18.0	71.1	48.4	36 100
20.0	68.5	47.6	29 500
22.0	66.0	46.7	24 200
24.0	63.4	45.7	19 900
26.0	60.7	44.6	16 300
28.0	57.9	43.4	13 300
30.0	55.1	42.1	10 800
32.0	52.1	40.5	8 600
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	83 100 *
9.0	82.5	53.7	81 600 *
10.0	81.3	53.6	78 300 *
11.0	80.2	53.4	75 200 *
12.0	79.1	53.2	72 300 *
13.0	78.0	53.0	64 900
14.0	76.8	52.8	57 000
15.0	75.7	52.5	50 500
16.0	74.5	52.2	45 000
18.0	72.2	51.6	36 200
20.0	69.9	50.9	29 500
22.0	67.5	50.1	24 200
24.0	65.1	49.2	19 900
26.0	62.6	48.1	16 400
28.0	60.0	47.0	13 300
30.0	57.4	45.8	10 800
32.0	54.7	44.4	8 600

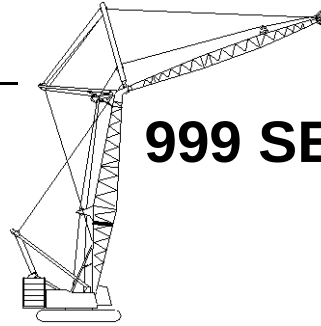
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	77 100 *
10.0	81.8	56.7	74 500 *
11.0	80.8	56.5	71 500 *
12.0	79.7	56.3	68 600 *
13.0	78.6	56.1	65 200
14.0	77.6	55.9	57 100
15.0	76.5	55.6	50 600
16.0	75.4	55.4	45 100
18.0	73.2	54.8	36 300
20.0	71.0	54.1	29 500
22.0	68.8	53.4	24 300
24.0	66.5	52.5	20 000
26.0	64.2	51.6	16 400
28.0	61.9	50.5	13 400
30.0	59.5	49.4	10 900
32.0	57.0	48.1	8 700
34.0	54.4	46.7	6 800
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	51 300
16.0	76.2	58.5	45 400
18.0	74.2	58.0	36 500
20.0	72.1	57.3	29 800
22.0	70.0	56.6	24 500
24.0	67.8	55.8	20 200
26.0	65.7	54.9	16 600
28.0	63.5	54.0	13 600
30.0	61.2	52.9	11 100
32.0	58.9	51.7	8 900
34.0	56.6	50.4	7 000
36.0	54.1	49.0	5 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	173 000 *
5.5	81.1	23.4	168 700 *
6.0	79.7	23.3	165 000 *
6.5	78.4	23.2	155 000 *
7.0	77.0	23.1	141 600 *
7.5	75.6	23.0	131 400 *
8.0	74.2	22.8	122 400 *
8.5	72.8	22.6	114 400 *
9.0	71.3	22.5	107 200 *
10.0	68.4	22.1	94 500
11.0	65.5	21.6	80 600
12.0	62.5	21.1	68 900
13.0	59.3	20.5	59 600
14.0	56.1	19.8	52 000
15.0	52.7	19.0	45 700
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	164 600 *
5.5	82.2	26.5	162 300 *
6.0	81.0	26.4	158 800 *
6.5	79.8	26.3	152 600 *
7.0	78.6	26.2	142 600 *
7.5	77.4	26.1	131 700 *
8.0	76.2	26.0	122 800 *
8.5	75.0	25.8	114 700 *
9.0	73.8	25.7	107 500 *
10.0	71.3	25.3	95 100
11.0	68.8	24.9	81 700
12.0	66.2	24.5	70 000
13.0	63.5	24.0	60 700
14.0	60.9	23.4	53 000
15.0	58.1	22.8	46 600
16.0	55.2	22.1	41 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	147 200 *
6.0	82.0	29.5	145 900 *
6.5	81.0	29.4	142 800 *
7.0	79.9	29.3	138 900 *
7.5	78.9	29.2	132 600 *
8.0	77.8	29.1	122 900 *
8.5	76.7	29.0	114 900 *
9.0	75.6	28.9	107 700 *

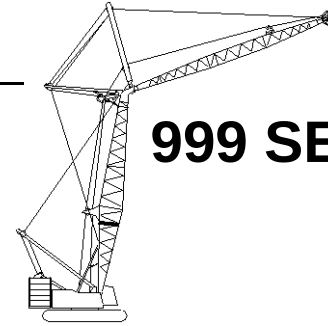
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	95 500 *
11.0	71.2	28.2	82 500
12.0	69.0	27.8	70 800
13.0	66.7	27.4	61 400
14.0	64.4	26.9	53 700
15.0	62.0	26.4	47 300
16.0	59.6	25.8	41 900
18.0	54.5	24.4	33 200
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	140 700 *
6.5	81.9	32.5	138 400 *
7.0	80.9	32.5	135 700 *
7.5	80.0	32.4	131 900 *
8.0	79.0	32.3	123 500 *
8.5	78.1	32.1	115 500 *
9.0	77.1	32.0	108 300 *
10.0	75.1	31.7	96 000 *
11.0	73.2	31.4	83 400
12.0	71.2	31.1	71 600
13.0	69.2	30.7	62 200
14.0	67.1	30.3	54 500
15.0	65.1	29.8	48 100
16.0	62.9	29.3	42 700
18.0	58.6	28.1	34 000
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	128 000 *
7.0	81.8	35.5	126 600 *
7.5	80.9	35.5	124 200 *
8.0	80.0	35.4	121 500 *
8.5	79.2	35.3	115 400 *
9.0	78.3	35.2	108 400 *
10.0	76.5	34.9	96 000 *
11.0	74.8	34.6	83 800
12.0	73.0	34.3	72 000
13.0	71.2	34.0	62 600
14.0	69.3	33.6	54 900
15.0	67.5	33.2	48 500
16.0	65.6	32.7	43 000
18.0	61.7	31.7	34 300
20.0	57.7	30.4	27 700
22.0	53.5	29.0	22 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	124 200 *
7.0	82.5	38.6	123 000 *
7.5	81.7	38.6	120 800 *
8.0	80.9	38.5	118 700 *
8.5	80.1	38.4	115 400 *
9.0	79.3	38.3	109 000 *
10.0	77.7	38.0	96 200 *
11.0	76.1	37.8	84 400
12.0	74.4	37.5	72 500
13.0	72.8	37.2	63 100
14.0	71.1	36.8	55 400
15.0	69.5	36.5	49 000
16.0	67.8	36.1	43 500
18.0	64.3	35.1	34 800
20.0	60.7	34.0	28 200
22.0	57.0	32.8	22 900
24.0	53.2	31.3	18 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	112 300 *
7.5	82.3	41.6	111 300 *
8.0	81.6	41.6	108 500 *
8.5	80.9	41.5	105 900 *
9.0	80.1	41.4	103 300 *
10.0	78.6	41.2	96 700 *
11.0	77.2	40.9	84 700
12.0	75.7	40.7	72 900
13.0	74.2	40.4	63 400
14.0	72.6	40.1	55 700
15.0	71.1	39.7	49 200
16.0	69.6	39.4	43 800
18.0	66.4	38.5	35 100
20.0	63.2	37.5	28 400
22.0	59.9	36.4	23 200
24.0	56.4	35.1	18 900

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	106 000 *
8.0	82.2	44.6	105 600 *
8.5	81.5	44.6	103 000 *
9.0	80.8	44.5	100 500 *
10.0	79.5	44.3	95 200 *
11.0	78.1	44.1	85 100
12.0	76.7	43.8	73 200
13.0	75.3	43.6	63 800
14.0	73.9	43.3	56 000
15.0	72.5	43.0	49 600
16.0	71.1	42.6	44 100
18.0	68.2	41.8	35 400
20.0	65.3	40.9	28 700
22.0	62.2	39.9	23 500
24.0	59.1	38.7	19 200
26.0	55.9	37.4	15 700
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	95 200 *
8.0	82.7	47.7	94 800 *
8.5	82.1	47.6	92 700 *
9.0	81.4	47.6	90 700 *
10.0	80.2	47.4	86 700 *
11.0	78.9	47.2	82 800
12.0	77.6	47.0	73 700
13.0	76.3	46.7	63 900
14.0	75.0	46.4	56 100
15.0	73.7	46.2	49 700
16.0	72.4	45.8	44 100
18.0	69.7	45.1	35 400
20.0	67.0	44.3	28 800
22.0	64.3	43.3	23 500
24.0	61.4	42.3	19 200
26.0	58.5	41.1	15 700
28.0	55.5	39.7	12 800
30.0	52.3	38.2	10 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	88 700 *
9.0	82.0	50.7	86 900 *
10.0	80.8	50.5	83 000 *
11.0	79.6	50.3	79 400 *
12.0	78.4	50.1	73 800
13.0	77.2	49.9	64 100
14.0	76.0	49.6	56 300
15.0	74.8	49.3	49 800
16.0	73.5	49.0	44 300
18.0	71.1	48.4	35 600
20.0	68.5	47.6	28 900
22.0	66.0	46.7	23 700
24.0	63.4	45.7	19 400
26.0	60.7	44.6	15 900
28.0	57.9	43.4	12 900
30.0	55.1	42.1	10 400
32.0	52.1	40.5	8 200
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	82 500 *
9.0	82.5	53.7	81 000 *
10.0	81.3	53.6	77 800 *
11.0	80.2	53.4	74 700 *
12.0	79.1	53.2	71 700 *
13.0	78.0	53.0	64 200
14.0	76.8	52.8	56 400
15.0	75.7	52.5	49 900
16.0	74.5	52.2	44 400
18.0	72.2	51.6	35 700
20.0	69.9	50.9	29 000
22.0	67.5	50.1	23 700
24.0	65.1	49.2	19 400
26.0	62.6	48.1	15 900
28.0	60.0	47.0	12 900
30.0	57.4	45.8	10 400
32.0	54.7	44.4	8 200

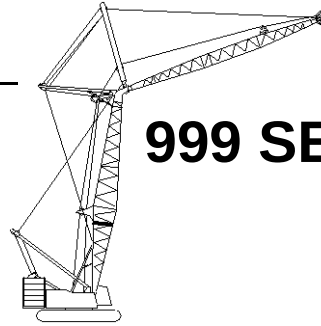
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	76 600 *
10.0	81.8	56.7	74 000 *
11.0	80.8	56.5	70 900 *
12.0	79.7	56.3	68 100 *
13.0	78.6	56.1	64 600
14.0	77.6	55.9	56 500
15.0	76.5	55.6	50 000
16.0	75.4	55.4	44 500
18.0	73.2	54.8	35 800
20.0	71.0	54.1	29 100
22.0	68.8	53.4	23 800
24.0	66.5	52.5	19 500
26.0	64.2	51.6	16 000
28.0	61.9	50.5	13 000
30.0	59.5	49.4	10 500
32.0	57.0	48.1	8 300
34.0	54.4	46.7	6 300
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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	50 700
16.0	76.2	58.5	44 900
18.0	74.2	58.0	36 000
20.0	72.1	57.3	29 400
22.0	70.0	56.6	24 000
24.0	67.8	55.8	19 700
26.0	65.7	54.9	16 200
28.0	63.5	54.0	13 200
30.0	61.2	52.9	10 700
32.0	58.9	51.7	8 500
34.0	56.6	50.4	6 600



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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

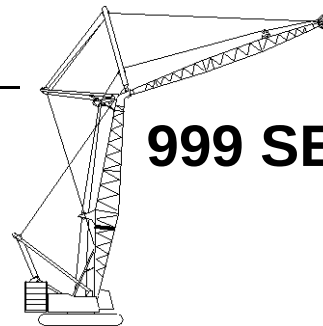
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	173 000 *
5.0	82.5	23.5	171 300 *
5.5	81.1	23.4	167 100 *
6.0	79.7	23.3	163 600 *
6.5	78.4	23.2	153 800 *
7.0	77.0	23.1	140 300 *
7.5	75.6	23.0	130 200 *
8.0	74.2	22.8	121 200 *
8.5	72.8	22.6	113 100 *
9.0	71.3	22.5	106 000 *
10.0	68.4	22.1	93 200
11.0	65.5	21.6	79 000
12.0	62.5	21.1	67 400
13.0	59.3	20.5	58 100
14.0	56.1	19.8	50 500
15.0	52.7	19.0	44 200
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	163 200 *
5.5	82.2	26.5	160 800 *
6.0	81.0	26.4	157 300 *
6.5	79.8	26.3	151 200 *
7.0	78.6	26.2	141 500 *
7.5	77.4	26.1	130 500 *
8.0	76.2	26.0	121 600 *
8.5	75.0	25.8	113 600 *
9.0	73.8	25.7	106 400 *
10.0	71.3	25.3	93 900
11.0	68.8	24.9	80 200
12.0	66.2	24.5	68 600
13.0	63.5	24.0	59 300
14.0	60.9	23.4	51 700
15.0	58.1	22.8	45 300
16.0	55.2	22.1	39 900
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	145 900 *
6.0	82.0	29.5	144 500 *
6.5	81.0	29.4	141 400 *
7.0	79.9	29.3	137 600 *
7.5	78.9	29.2	131 500 *
8.0	77.8	29.1	121 800 *
8.5	76.7	29.0	113 800 *
9.0	75.6	28.9	106 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	94 300
11.0	71.2	28.2	81 100
12.0	69.0	27.8	69 400
13.0	66.7	27.4	60 100
14.0	64.4	26.9	52 400
15.0	62.0	26.4	46 100
16.0	59.6	25.8	40 700
18.0	54.5	24.4	32 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	139 300 *
6.5	81.9	32.5	137 100 *
7.0	80.9	32.5	134 300 *
7.5	80.0	32.4	130 500 *
8.0	79.0	32.3	122 400 *
8.5	78.1	32.1	114 400 *
9.0	77.1	32.0	107 200 *
10.0	75.1	31.7	94 900 *
11.0	73.2	31.4	82 000
12.0	71.2	31.1	70 300
13.0	69.2	30.7	60 900
14.0	67.1	30.3	53 300
15.0	65.1	29.8	46 900
16.0	62.9	29.3	41 500
18.0	58.6	28.1	32 900
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	126 800 *
7.0	81.8	35.5	125 400 *
7.5	80.9	35.5	122 900 *
8.0	80.0	35.4	120 300 *
8.5	79.2	35.3	114 400 *
9.0	78.3	35.2	107 500 *
10.0	76.5	34.9	95 000 *
11.0	74.8	34.6	82 500
12.0	73.0	34.3	70 800
13.0	71.2	34.0	61 400
14.0	69.3	33.6	53 700
15.0	67.5	33.2	47 300
16.0	65.6	32.7	41 900
18.0	61.7	31.7	33 300
20.0	57.7	30.4	26 700
22.0	53.5	29.0	21 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	123 100 *
7.0	82.5	38.6	121 800 *
7.5	81.7	38.6	119 700 *
8.0	80.9	38.5	117 500 *
8.5	80.1	38.4	114 400 *
9.0	79.3	38.3	108 000 *
10.0	77.7	38.0	95 300 *
11.0	76.1	37.8	83 100
12.0	74.4	37.5	71 300
13.0	72.8	37.2	61 900
14.0	71.1	36.8	54 300
15.0	69.5	36.5	47 900
16.0	67.8	36.1	42 400
18.0	64.3	35.1	33 800
20.0	60.7	34.0	27 200
22.0	57.0	32.8	22 000
24.0	53.2	31.3	17 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	111 400 *
7.5	82.3	41.6	110 400 *
8.0	81.6	41.6	107 600 *
8.5	80.9	41.5	105 000 *
9.0	80.1	41.4	102 400 *
10.0	78.6	41.2	95 800 *
11.0	77.2	40.9	83 500
12.0	75.7	40.7	71 700
13.0	74.2	40.4	62 300
14.0	72.6	40.1	54 600
15.0	71.1	39.7	48 200
16.0	69.6	39.4	42 700
18.0	66.4	38.5	34 100
20.0	63.2	37.5	27 500
22.0	59.9	36.4	22 200
24.0	56.4	35.1	18 000

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

 Meets
ANSI B30.5
Requirements

999 SERIES 3
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	105 100 *
8.0	82.2	44.6	104 700 *
8.5	81.5	44.6	102 100 *
9.0	80.8	44.5	99 600 *
10.0	79.5	44.3	94 300 *
11.0	78.1	44.1	83 900
12.0	76.7	43.8	72 100
13.0	75.3	43.6	62 700
14.0	73.9	43.3	55 000
15.0	72.5	43.0	48 500
16.0	71.1	42.6	43 100
18.0	68.2	41.8	34 400
20.0	65.3	40.9	27 800
22.0	62.2	39.9	22 600
24.0	59.1	38.7	18 400
26.0	55.9	37.4	14 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	94 300 *
8.0	82.7	47.7	94 000 *
8.5	82.1	47.6	91 900 *
9.0	81.4	47.6	89 800 *
10.0	80.2	47.4	85 800 *
11.0	78.9	47.2	81 900
12.0	77.6	47.0	72 500
13.0	76.3	46.7	62 800
14.0	75.0	46.4	55 100
15.0	73.7	46.2	48 700
16.0	72.4	45.8	43 200
18.0	69.7	45.1	34 500
20.0	67.0	44.3	27 900
22.0	64.3	43.3	22 600
24.0	61.4	42.3	18 400
26.0	58.5	41.1	14 900
28.0	55.5	39.7	12 000
30.0	52.3	38.2	9 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	87 900 *
9.0	82.0	50.7	86 000 *
10.0	80.8	50.5	82 200 *
11.0	79.6	50.3	78 500 *
12.0	78.4	50.1	72 800
13.0	77.2	49.9	63 000
14.0	76.0	49.6	55 300
15.0	74.8	49.3	48 900
16.0	73.5	49.0	43 400
18.0	71.1	48.4	34 700
20.0	68.5	47.6	28 100
22.0	66.0	46.7	22 800
24.0	63.4	45.7	18 500
26.0	60.7	44.6	15 000
28.0	57.9	43.4	12 100
30.0	55.1	42.1	9 600
32.0	52.1	40.5	7 300
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	81 700 *
9.0	82.5	53.7	80 200 *
10.0	81.3	53.6	77 000 *
11.0	80.2	53.4	73 800 *
12.0	79.1	53.2	70 800 *
13.0	78.0	53.0	63 200
14.0	76.8	52.8	55 400
15.0	75.7	52.5	49 000
16.0	74.5	52.2	43 500
18.0	72.2	51.6	34 800
20.0	69.9	50.9	28 100
22.0	67.5	50.1	22 900
24.0	65.1	49.2	18 600
26.0	62.6	48.1	15 100
28.0	60.0	47.0	12 100
30.0	57.4	45.8	9 600
32.0	54.7	44.4	7 500

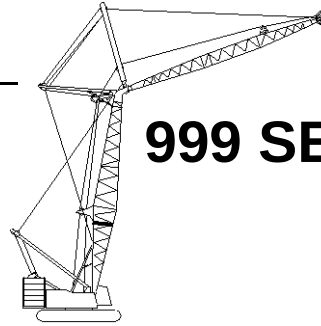
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	75 800 *
10.0	81.8	56.7	73 100 *
11.0	80.8	56.5	70 100 *
12.0	79.7	56.3	67 300 *
13.0	78.6	56.1	63 800
14.0	77.6	55.9	55 600
15.0	76.5	55.6	49 100
16.0	75.4	55.4	43 600
18.0	73.2	54.8	34 900
20.0	71.0	54.1	28 200
22.0	68.8	53.4	23 000
24.0	66.5	52.5	18 700
26.0	64.2	51.6	15 200
28.0	61.9	50.5	12 200
30.0	59.5	49.4	9 700
32.0	57.0	48.1	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	53 500 *
14.0	78.2	59.0	53 500 *
15.0	77.2	58.8	49 500
16.0	76.2	58.5	44 100
18.0	74.2	58.0	35 200
20.0	72.1	57.3	28 500
22.0	70.0	56.6	23 300
24.0	67.8	55.8	19 000
26.0	65.7	54.9	15 500
28.0	63.5	54.0	12 500
30.0	61.2	52.9	10 000
32.0	58.9	51.7	7 800
34.0	56.6	50.4	5 900



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

**Meets
ANSI B30.5
Requirements**



999 SERIES 3

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	169 900 *
5.5	81.1	23.4	165 800 *
6.0	79.7	23.3	162 400 *
6.5	78.4	23.2	152 700 *
7.0	77.0	23.1	139 200 *
7.5	75.6	23.0	129 000 *
8.0	74.2	22.8	120 000 *
8.5	72.8	22.6	112 000 *
9.0	71.3	22.5	104 800 *
10.0	68.4	22.1	91 900
11.0	65.5	21.6	77 500
12.0	62.5	21.1	66 000
13.0	59.3	20.5	56 700
14.0	56.1	19.8	49 200
15.0	52.7	19.0	42 900
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	162 000 *
5.5	82.2	26.5	159 600 *
6.0	81.0	26.4	156 000 *
6.5	79.8	26.3	150 100 *
7.0	78.6	26.2	140 400 *
7.5	77.4	26.1	129 500 *
8.0	76.2	26.0	120 500 *
8.5	75.0	25.8	112 500 *
9.0	73.8	25.7	105 400 *
10.0	71.3	25.3	92 700
11.0	68.8	24.9	78 800
12.0	66.2	24.5	67 200
13.0	63.5	24.0	58 000
14.0	60.9	23.4	50 400
15.0	58.1	22.8	44 100
16.0	55.2	22.1	38 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	144 800 *
6.0	82.0	29.5	143 400 *
6.5	81.0	29.4	140 300 *
7.0	79.9	29.3	136 500 *
7.5	78.9	29.2	130 500 *
8.0	77.8	29.1	120 800 *
8.5	76.7	29.0	112 800 *
9.0	75.6	28.9	105 700 *

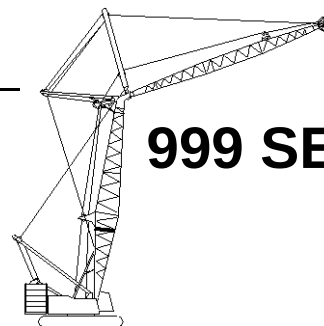
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	93 200
11.0	71.2	28.2	79 800
12.0	69.0	27.8	68 100
13.0	66.7	27.4	58 900
14.0	64.4	26.9	51 300
15.0	62.0	26.4	45 000
16.0	59.6	25.8	39 600
18.0	54.5	24.4	31 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	138 300 *
6.5	81.9	32.5	136 000 *
7.0	80.9	32.5	133 200 *
7.5	80.0	32.4	129 400 *
8.0	79.0	32.3	121 400 *
8.5	78.1	32.1	113 400 *
9.0	77.1	32.0	106 200 *
10.0	75.1	31.7	94 000
11.0	73.2	31.4	80 800
12.0	71.2	31.1	69 100
13.0	69.2	30.7	59 800
14.0	67.1	30.3	52 200
15.0	65.1	29.8	45 900
16.0	62.9	29.3	40 500
18.0	58.6	28.1	31 900
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	125 800 *
7.0	81.8	35.5	124 400 *
7.5	80.9	35.5	122 000 *
8.0	80.0	35.4	119 300 *
8.5	79.2	35.3	113 400 *
9.0	78.3	35.2	106 500 *
10.0	76.5	34.9	94 100 *
11.0	74.8	34.6	81 300
12.0	73.0	34.3	69 700
13.0	71.2	34.0	60 300
14.0	69.3	33.6	52 700
15.0	67.5	33.2	46 300
16.0	65.6	32.7	40 900
18.0	61.7	31.7	32 300
20.0	57.7	30.4	25 800
22.0	53.5	29.0	20 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	122 200 *
7.0	82.5	38.6	120 900 *
7.5	81.7	38.6	118 800 *
8.0	80.9	38.5	116 600 *
8.5	80.1	38.4	113 500 *
9.0	79.3	38.3	107 200 *
10.0	77.7	38.0	94 400 *
11.0	76.1	37.8	82 000
12.0	74.4	37.5	70 200
13.0	72.8	37.2	60 900
14.0	71.1	36.8	53 300
15.0	69.5	36.5	46 900
16.0	67.8	36.1	41 400
18.0	64.3	35.1	32 900
20.0	60.7	34.0	26 300
22.0	57.0	32.8	21 100
24.0	53.2	31.3	16 900
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	110 800 *
7.5	82.3	41.6	109 800 *
8.0	81.6	41.6	107 000 *
8.5	80.9	41.5	104 300 *
9.0	80.1	41.4	101 700 *
10.0	78.6	41.2	95 000 *
11.0	77.2	40.9	82 400
12.0	75.7	40.7	70 600
13.0	74.2	40.4	61 300
14.0	72.6	40.1	53 600
15.0	71.1	39.7	47 300
16.0	69.6	39.4	41 900
18.0	66.4	38.5	33 200
20.0	63.2	37.5	26 700
22.0	59.9	36.4	21 400
24.0	56.4	35.1	17 200

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements



999 SERIES 3

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	104 500 *
8.0	82.2	44.6	104 100 *
8.5	81.5	44.6	101 500 *
9.0	80.8	44.5	98 900 *
10.0	79.5	44.3	93 600 *
11.0	78.1	44.1	82 800
12.0	76.7	43.8	71 100
13.0	75.3	43.6	61 700
14.0	73.9	43.3	54 000
15.0	72.5	43.0	47 600
16.0	71.1	42.6	42 200
18.0	68.2	41.8	33 600
20.0	65.3	40.9	27 000
22.0	62.2	39.9	21 800
24.0	59.1	38.7	17 600
26.0	55.9	37.4	14 100
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	93 700 *
8.0	82.7	47.7	93 300 *
8.5	82.1	47.6	91 200 *
9.0	81.4	47.6	89 200 *
10.0	80.2	47.4	85 200 *
11.0	78.9	47.2	81 200
12.0	77.6	47.0	71 500
13.0	76.3	46.7	61 900
14.0	75.0	46.4	54 200
15.0	73.7	46.2	47 800
16.0	72.4	45.8	42 300
18.0	69.7	45.1	33 700
20.0	67.0	44.3	27 100
22.0	64.3	43.3	21 900
24.0	61.4	42.3	17 600
26.0	58.5	41.1	14 200
28.0	55.5	39.7	11 200
30.0	52.3	38.2	8 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	87 300 *
9.0	82.0	50.7	85 400 *
10.0	80.8	50.5	81 500 *
11.0	79.6	50.3	77 800 *
12.0	78.4	50.1	71 900
13.0	77.2	49.9	62 100
14.0	76.0	49.6	54 400
15.0	74.8	49.3	48 000
16.0	73.5	49.0	42 600
18.0	71.1	48.4	33 900
20.0	68.5	47.6	27 300
22.0	66.0	46.7	22 100
24.0	63.4	45.7	17 800
26.0	60.7	44.6	14 400
28.0	57.9	43.4	11 400
30.0	55.1	42.1	8 900
32.0	52.1	40.5	6 500
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	81 100 *
9.0	82.5	53.7	79 600 *
10.0	81.3	53.6	76 400 *
11.0	80.2	53.4	73 200 *
12.0	79.1	53.2	70 200 *
13.0	78.0	53.0	62 300
14.0	76.8	52.8	54 600
15.0	75.7	52.5	48 100
16.0	74.5	52.2	42 700
18.0	72.2	51.6	34 000
20.0	69.9	50.9	27 400
22.0	67.5	50.1	22 100
24.0	65.1	49.2	17 900
26.0	62.6	48.1	14 400
28.0	60.0	47.0	11 500
30.0	57.4	45.8	9 000
32.0	54.7	44.4	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	75 200 *
10.0	81.8	56.7	72 500 *
11.0	80.8	56.5	69 500 *
12.0	79.7	56.3	66 600 *
13.0	78.6	56.1	62 900
14.0	77.6	55.9	54 700
15.0	76.5	55.6	48 300
16.0	75.4	55.4	42 800
18.0	73.2	54.8	34 100
20.0	71.0	54.1	27 500
22.0	68.8	53.4	22 300
24.0	66.5	52.5	18 000
26.0	64.2	51.6	14 500
28.0	61.9	50.5	11 600
30.0	59.5	49.4	9 100
32.0	57.0	48.1	6 900
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	53 500 *
14.0	78.2	59.0	52 700 *
15.0	77.2	58.8	48 600
16.0	76.2	58.5	43 400
18.0	74.2	58.0	34 500
20.0	72.1	57.3	27 800
22.0	70.0	56.6	22 500
24.0	67.8	55.8	18 300
26.0	65.7	54.9	14 800
28.0	63.5	54.0	11 900
30.0	61.2	52.9	9 300
32.0	58.9	51.7	7 200