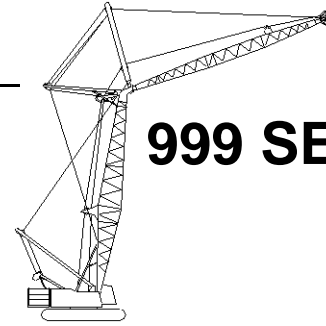




# Liftcrane Boom Capacities With Luffing Jib Attached

## 999 SERIES 1



**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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 (\*).

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** (Boom No. 22EL) or **No. 196200** (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**.

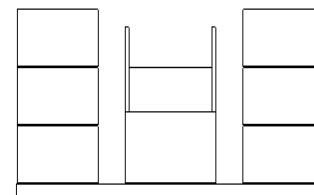
**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

**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 and 67 860 kg counterweight.

<b>Luffing Jib Position During Operation</b>	
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

Consult Chart **No. 8235-AM** for luffing jib capacities.



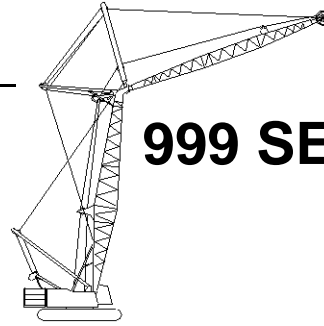
67 860 kg Crane Counterweight  
6 Side Boxes - 1 Center Box

**Boom Catwalks Deduct**

Deduct 200 kg from capacities when boom catwalks are attached.



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**

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

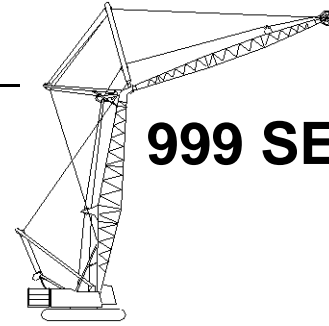
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	167 100 *
5.0	82.5	23.5	163 000 *
5.5	81.1	23.4	147 700 *
6.0	79.7	23.3	134 800 *
6.5	78.4	23.2	123 700 *
7.0	77.0	23.1	114 100 *
7.5	75.6	23.0	105 100
8.0	74.2	22.8	94 500
8.5	72.8	22.6	84 200
9.0	71.3	22.5	75 700
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	156 900 *
5.5	82.2	26.5	147 500 *
6.0	81.0	26.4	134 600 *
6.5	79.8	26.3	123 600 *
7.0	78.6	26.2	114 000 *
7.5	77.4	26.1	105 100
8.0	76.2	26.0	95 100
8.5	75.0	25.8	84 800
9.0	73.8	25.7	76 200
10.0	71.3	25.3	62 900
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	139 700 *
6.0	82.0	29.5	134 700 *
6.5	81.0	29.4	123 500 *
7.0	79.9	29.3	113 900 *
7.5	78.9	29.2	105 100
8.0	77.8	29.1	95 600
8.5	76.7	29.0	85 300
9.0	75.6	28.9	76 600
10.0	73.4	28.6	63 300
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	132 400 *
6.5	81.9	32.5	123 800 *
7.0	80.9	32.5	114 000 *
7.5	80.0	32.4	105 200
8.0	79.0	32.3	96 000
8.5	78.1	32.1	85 600
9.0	77.1	32.0	76 900
10.0	75.1	31.7	63 600
11.0	73.2	31.4	53 600
12.0	71.2	31.1	45 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	119 300 *
7.0	81.8	35.5	114 100 *
7.5	80.9	35.5	105 200
8.0	80.0	35.4	96 400
8.5	79.2	35.3	85 900
9.0	78.3	35.2	77 200
10.0	76.5	34.9	63 800
11.0	74.8	34.6	53 700
12.0	73.0	34.3	45 900
13.0	71.2	34.0	39 700
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	119 200 *
7.0	82.5	38.6	113 900 *
7.5	81.7	38.6	105 100
8.0	80.9	38.5	96 600
8.5	80.1	38.4	86 100
9.0	79.3	38.3	77 400
10.0	77.7	38.0	63 900
11.0	76.1	37.8	53 900
12.0	74.4	37.5	46 000
13.0	72.8	37.2	39 800
14.0	71.1	36.8	34 700
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	108 300 *
7.5	82.3	41.6	105 200
8.0	81.6	41.6	96 900
8.5	80.9	41.5	86 300
9.0	80.1	41.4	77 500
10.0	78.6	41.2	64 100
11.0	77.2	40.9	54 000
12.0	75.7	40.7	46 200
13.0	74.2	40.4	39 900
14.0	72.6	40.1	34 800
15.0	71.1	39.7	30 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	98 400
8.0	82.2	44.6	96 900
8.5	81.5	44.6	86 400
9.0	80.8	44.5	77 700
10.0	79.5	44.3	64 200
11.0	78.1	44.1	54 100
12.0	76.7	43.8	46 200
13.0	75.3	43.6	39 900
14.0	73.9	43.3	34 800
15.0	72.5	43.0	30 600
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	90 300 *
8.0	82.7	47.7	89 700
8.5	82.1	47.6	86 100
9.0	81.4	47.6	78 600
10.0	80.2	47.4	64 300
11.0	78.9	47.2	54 100
12.0	77.6	47.0	46 200
13.0	76.3	46.7	39 900
14.0	75.0	46.4	34 800
15.0	73.7	46.2	30 500
16.0	72.4	45.8	26 800
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	83 800 *
9.0	82.0	50.7	77 600
10.0	80.8	50.5	64 300
11.0	79.6	50.3	54 100
12.0	78.4	50.1	46 200
13.0	77.2	49.9	39 900
14.0	76.0	49.6	34 700
15.0	74.8	49.3	30 500
16.0	73.5	49.0	26 800
18.0	71.1	48.4	21 000



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

Meets  
**ANSI B30.5**  
Requirements

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

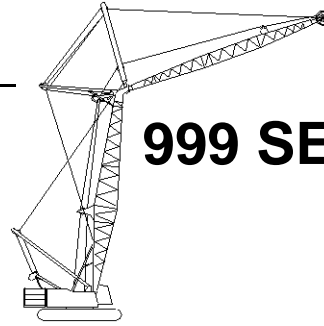
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	167 100 *
5.0	82.5	23.5	163 100 *
5.5	81.1	23.4	147 600 *
6.0	79.7	23.3	134 600 *
6.5	78.4	23.2	123 500 *
7.0	77.0	23.1	113 800 *
7.5	75.6	23.0	104 700
8.0	74.2	22.8	94 100
8.5	72.8	22.6	83 800
9.0	71.3	22.5	75 200
10.0	68.4	22.1	61 900
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	156 900 *
5.5	82.2	26.5	147 500 *
6.0	81.0	26.4	134 600 *
6.5	79.8	26.3	123 400 *
7.0	78.6	26.2	113 700 *
7.5	77.4	26.1	104 800
8.0	76.2	26.0	94 800
8.5	75.0	25.8	84 500
9.0	73.8	25.7	75 800
10.0	71.3	25.3	62 500
11.0	68.8	24.9	52 500
12.0	66.2	24.5	44 700
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	139 700 *
6.0	82.0	29.5	134 700 *
6.5	81.0	29.4	123 400 *
7.0	79.9	29.3	113 800 *
7.5	78.9	29.2	104 900
8.0	77.8	29.1	95 400
8.5	76.7	29.0	85 000
9.0	75.6	28.9	76 300
10.0	73.4	28.6	62 900
11.0	71.2	28.2	52 900
12.0	69.0	27.8	45 000
13.0	66.7	27.4	38 800
14.0	64.4	26.9	33 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	132 400 *
6.5	81.9	32.5	123 800 *
7.0	80.9	32.5	113 800 *
7.5	80.0	32.4	105 100
8.0	79.0	32.3	95 900
8.5	78.1	32.1	85 400
9.0	77.1	32.0	76 700
10.0	75.1	31.7	63 300
11.0	73.2	31.4	53 200
12.0	71.2	31.1	45 300
13.0	69.2	30.7	39 100
14.0	67.1	30.3	34 000
15.0	65.1	29.8	29 700
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	119 200 *
7.0	81.8	35.5	114 000 *
7.5	80.9	35.5	105 100
8.0	80.0	35.4	96 300
8.5	79.2	35.3	85 800
9.0	78.3	35.2	77 000
10.0	76.5	34.9	63 500
11.0	74.8	34.6	53 400
12.0	73.0	34.3	45 500
13.0	71.2	34.0	39 300
14.0	69.3	33.6	34 200
15.0	67.5	33.2	29 800
16.0	65.6	32.7	26 200
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	119 200 *
7.0	82.5	38.6	113 900 *
7.5	81.7	38.6	105 100
8.0	80.9	38.5	96 600
8.5	80.1	38.4	86 100
9.0	79.3	38.3	77 200
10.0	77.7	38.0	63 700
11.0	76.1	37.8	53 600
12.0	74.4	37.5	45 700
13.0	72.8	37.2	39 400
14.0	71.1	36.8	34 200
15.0	69.5	36.5	30 000
16.0	67.8	36.1	26 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	108 200 *
7.5	82.3	41.6	105 200
8.0	81.6	41.6	96 900
8.5	80.9	41.5	86 300
9.0	80.1	41.4	77 500
10.0	78.6	41.2	63 900
11.0	77.2	40.9	53 800
12.0	75.7	40.7	45 900
13.0	74.2	40.4	39 600
14.0	72.6	40.1	34 400
15.0	71.1	39.7	30 100
16.0	69.6	39.4	26 500
18.0	66.4	38.5	20 700
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	98 500
8.0	82.2	44.6	96 900
8.5	81.5	44.6	86 400
9.0	80.8	44.5	77 600
10.0	79.5	44.3	64 000
11.0	78.1	44.1	53 900
12.0	76.7	43.8	45 900
13.0	75.3	43.6	39 700
14.0	73.9	43.3	34 500
15.0	72.5	43.0	30 200
16.0	71.1	42.6	26 500
18.0	68.2	41.8	20 700



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
 ANSI B30.5  
 Requirements**

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

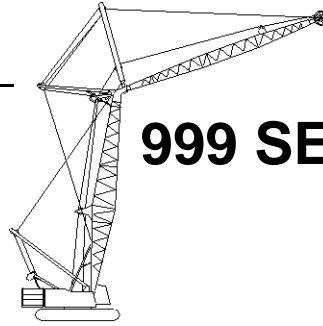
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	91 300 *
8.0	82.7	47.7	90 700
8.5	82.1	47.6	86 200
9.0	81.4	47.6	78 400
10.0	80.2	47.4	64 200
11.0	78.9	47.2	54 000
12.0	77.6	47.0	46 000
13.0	76.3	46.7	39 700
14.0	75.0	46.4	34 500
15.0	73.7	46.2	30 200
16.0	72.4	45.8	26 500
18.0	69.7	45.1	20 700
20.0	67.0	44.3	16 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	84 900 *
9.0	82.0	50.7	77 800
10.0	80.8	50.5	64 200
11.0	79.6	50.3	54 000
12.0	78.4	50.1	46 000
13.0	77.2	49.9	39 700
14.0	76.0	49.6	34 500
15.0	74.8	49.3	30 100
16.0	73.5	49.0	26 500
18.0	71.1	48.4	20 600
20.0	68.5	47.6	16 200
22.0	66.0	46.7	12 600

REFERENCE ONLY!



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	165 100 *
5.0	82.5	23.5	161 100 *
5.5	81.1	23.4	145 800 *
6.0	79.7	23.3	132 800 *
6.5	78.4	23.2	121 700 *
7.0	77.0	23.1	112 100 *
7.5	75.6	23.0	103 000
8.0	74.2	22.8	92 100
8.5	72.8	22.6	82 000
9.0	71.3	22.5	73 500
10.0	68.4	22.1	60 400
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	155 100 *
5.5	82.2	26.5	145 700 *
6.0	81.0	26.4	132 800 *
6.5	79.8	26.3	121 800 *
7.0	78.6	26.2	112 100 *
7.5	77.4	26.1	103 200
8.0	76.2	26.0	93 000
8.5	75.0	25.8	82 700
9.0	73.8	25.7	74 200
10.0	71.3	25.3	61 000
11.0	68.8	24.9	51 100
12.0	66.2	24.5	43 400
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	138 000 *
6.0	82.0	29.5	132 900 *
6.5	81.0	29.4	121 800 *
7.0	79.9	29.3	112 200 *
7.5	78.9	29.2	103 300
8.0	77.8	29.1	93 700
8.5	76.7	29.0	83 400
9.0	75.6	28.9	74 800
10.0	73.4	28.6	61 500
11.0	71.2	28.2	51 600
12.0	69.0	27.8	43 800
13.0	66.7	27.4	37 700
14.0	64.4	26.9	32 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	130 700 *
6.5	81.9	32.5	122 100 *
7.0	80.9	32.5	112 300 *
7.5	80.0	32.4	103 500
8.0	79.0	32.3	94 100
8.5	78.1	32.1	83 800
9.0	77.1	32.0	75 200
10.0	75.1	31.7	61 900
11.0	73.2	31.4	51 900
12.0	71.2	31.1	44 200
13.0	69.2	30.7	38 000
14.0	67.1	30.3	32 900
15.0	65.1	29.8	28 700
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	117 700 *
7.0	81.8	35.5	112 400 *
7.5	80.9	35.5	103 500
8.0	80.0	35.4	94 600
8.5	79.2	35.3	84 200
9.0	78.3	35.2	75 500
10.0	76.5	34.9	62 200
11.0	74.8	34.6	52 200
12.0	73.0	34.3	44 400
13.0	71.2	34.0	38 200
14.0	69.3	33.6	33 100
15.0	67.5	33.2	28 900
16.0	65.6	32.7	25 300
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	117 600 *
7.0	82.5	38.6	112 400 *
7.5	81.7	38.6	103 600
8.0	80.9	38.5	94 900
8.5	80.1	38.4	84 500
9.0	79.3	38.3	75 800
10.0	77.7	38.0	62 400
11.0	76.1	37.8	52 400
12.0	74.4	37.5	44 600
13.0	72.8	37.2	38 400
14.0	71.1	36.8	33 200
15.0	69.5	36.5	29 000
16.0	67.8	36.1	25 400

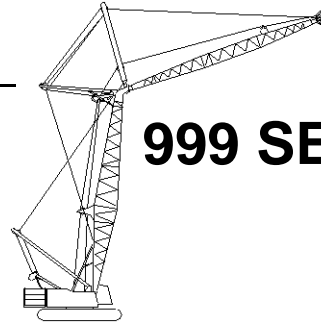
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	106 800 *
7.5	82.3	41.6	103 700
8.0	81.6	41.6	95 200
8.5	80.9	41.5	84 800
9.0	80.1	41.4	76 000
10.0	78.6	41.2	62 600
11.0	77.2	40.9	52 600
12.0	75.7	40.7	44 700
13.0	74.2	40.4	38 500
14.0	72.6	40.1	33 400
15.0	71.1	39.7	29 200
16.0	69.6	39.4	25 600
18.0	66.4	38.5	19 800
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	96 800
8.0	82.2	44.6	95 300
8.5	81.5	44.6	84 900
9.0	80.8	44.5	76 200
10.0	79.5	44.3	62 800
11.0	78.1	44.1	52 700
12.0	76.7	43.8	44 900
13.0	75.3	43.6	38 600
14.0	73.9	43.3	33 500
15.0	72.5	43.0	29 300
16.0	71.1	42.6	25 600
18.0	68.2	41.8	19 900



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**



## 999 SERIES 1

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

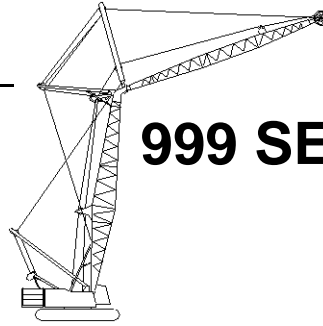
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	89 900 *
8.0	82.7	47.7	89 200
8.5	82.1	47.6	84 700
9.0	81.4	47.6	77 000
10.0	80.2	47.4	62 900
11.0	78.9	47.2	52 800
12.0	77.6	47.0	44 900
13.0	76.3	46.7	38 700
14.0	75.0	46.4	33 500
15.0	73.7	46.2	29 300
16.0	72.4	45.8	25 600
18.0	69.7	45.1	19 900
20.0	67.0	44.3	15 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	83 400 *
9.0	82.0	50.7	76 400
10.0	80.8	50.5	62 900
11.0	79.6	50.3	52 800
12.0	78.4	50.1	44 900
13.0	77.2	49.9	38 700
14.0	76.0	49.6	33 500
15.0	74.8	49.3	29 300
16.0	73.5	49.0	25 600
18.0	71.1	48.4	19 800
20.0	68.5	47.6	15 400
22.0	66.0	46.7	11 900

REFERENCE ONLY!



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**

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

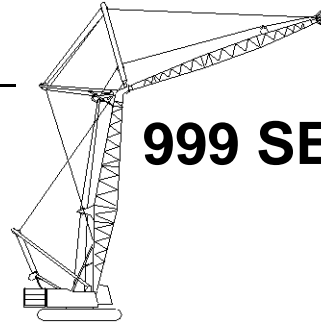
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	166 600 *
5.0	82.5	23.5	162 500 *
5.5	81.1	23.4	146 900 *
6.0	79.7	23.3	133 800 *
6.5	78.4	23.2	122 500 *
7.0	77.0	23.1	112 700 *
7.5	75.6	23.0	103 500
8.0	74.2	22.8	92 800
8.5	72.8	22.6	82 500
9.0	71.3	22.5	73 900
10.0	68.4	22.1	60 500
11.0	65.5	21.6	50 500
12.0	62.5	21.1	42 700
13.0	59.3	20.5	36 500
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	156 400 *
5.5	82.2	26.5	146 900 *
6.0	81.0	26.4	133 800 *
6.5	79.8	26.3	122 600 *
7.0	78.6	26.2	112 800 *
7.5	77.4	26.1	103 800
8.0	76.2	26.0	93 800
8.5	75.0	25.8	83 300
9.0	73.8	25.7	74 600
10.0	71.3	25.3	61 200
11.0	68.8	24.9	51 100
12.0	66.2	24.5	43 300
13.0	63.5	24.0	37 100
14.0	60.9	23.4	32 000
15.0	58.1	22.8	27 700
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	139 200 *
6.0	82.0	29.5	134 000 *
6.5	81.0	29.4	122 700 *
7.0	79.9	29.3	113 000 *
7.5	78.9	29.2	104 000
8.0	77.8	29.1	94 600
8.5	76.7	29.0	84 100
9.0	75.6	28.9	75 300
10.0	73.4	28.6	61 800
11.0	71.2	28.2	51 700
12.0	69.0	27.8	43 800
13.0	66.7	27.4	37 600
14.0	64.4	26.9	32 400
15.0	62.0	26.4	28 100
16.0	59.6	25.8	24 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	131 800 *
6.5	81.9	32.5	123 100 *
7.0	80.9	32.5	113 100 *
7.5	80.0	32.4	104 300
8.0	79.0	32.3	95 100
8.5	78.1	32.1	84 600
9.0	77.1	32.0	75 800
10.0	75.1	31.7	62 300
11.0	73.2	31.4	52 200
12.0	71.2	31.1	44 300
13.0	69.2	30.7	38 000
14.0	67.1	30.3	32 800
15.0	65.1	29.8	28 600
16.0	62.9	29.3	24 900
18.0	58.6	28.1	19 100
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	118 700 *
7.0	81.8	35.5	113 300 *
7.5	80.9	35.5	104 300
8.0	80.0	35.4	95 700
8.5	79.2	35.3	85 100
9.0	78.3	35.2	76 200
10.0	76.5	34.9	62 600
11.0	74.8	34.6	52 500
12.0	73.0	34.3	44 600
13.0	71.2	34.0	38 300
14.0	69.3	33.6	33 100
15.0	67.5	33.2	28 800
16.0	65.6	32.7	25 100
18.0	61.7	31.7	19 300
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	118 600 *
7.0	82.5	38.6	113 300 *
7.5	81.7	38.6	104 400
8.0	80.9	38.5	96 000
8.5	80.1	38.4	85 400
9.0	79.3	38.3	76 500
10.0	77.7	38.0	62 900
11.0	76.1	37.8	52 700
12.0	74.4	37.5	44 800
13.0	72.8	37.2	38 500
14.0	71.1	36.8	33 300
15.0	69.5	36.5	29 000
16.0	67.8	36.1	25 300
18.0	64.3	35.1	19 500
20.0	60.7	34.0	15 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	107 600 *
7.5	82.3	41.6	104 600
8.0	81.6	41.6	96 400
8.5	80.9	41.5	85 800
9.0	80.1	41.4	76 900
10.0	78.6	41.2	63 200
11.0	77.2	40.9	53 000
12.0	75.7	40.7	45 000
13.0	74.2	40.4	38 700
14.0	72.6	40.1	33 500
15.0	71.1	39.7	29 200
16.0	69.6	39.4	25 500
18.0	66.4	38.5	19 700
20.0	63.2	37.5	15 200
22.0	59.9	36.4	11 700
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	98 100
8.0	82.2	44.6	96 500
8.5	81.5	44.6	85 900
9.0	80.8	44.5	77 000
10.0	79.5	44.3	63 400
11.0	78.1	44.1	53 100
12.0	76.7	43.8	45 200
13.0	75.3	43.6	38 800
14.0	73.9	43.3	33 700
15.0	72.5	43.0	29 300
16.0	71.1	42.6	25 600
18.0	68.2	41.8	19 800
20.0	65.3	40.9	15 300
22.0	62.2	39.9	11 800
24.0	59.1	38.7	8 900



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	92 300 *
8.0	82.7	47.7	91 400
8.5	82.1	47.6	85 800
9.0	81.4	47.6	77 800
10.0	80.2	47.4	63 600
11.0	78.9	47.2	53 300
12.0	77.6	47.0	45 300
13.0	76.3	46.7	38 900
14.0	75.0	46.4	33 700
15.0	73.7	46.2	29 400
16.0	72.4	45.8	25 700
18.0	69.7	45.1	19 800
20.0	67.0	44.3	15 300
22.0	64.3	43.3	11 700
24.0	61.4	42.3	8 900

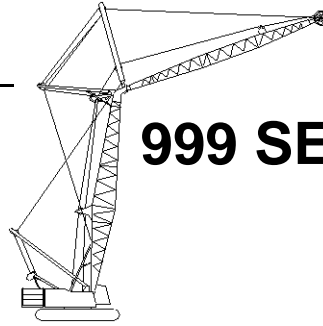
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	85 500
9.0	82.0	50.7	77 600
10.0	80.8	50.5	63 600
11.0	79.6	50.3	53 300
12.0	78.4	50.1	45 300
13.0	77.2	49.9	38 900
14.0	76.0	49.6	33 700
15.0	74.8	49.3	29 400
16.0	73.5	49.0	25 700
18.0	71.1	48.4	19 800
20.0	68.5	47.6	15 300
22.0	66.0	46.7	11 700
24.0	63.4	45.7	8 900
26.0	60.7	44.6	6 500

REFERENCE ONLY!





# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	165 300 *
5.0	82.5	23.5	161 200 *
5.5	81.1	23.4	145 600 *
6.0	79.7	23.3	132 500 *
6.5	78.4	23.2	121 300 *
7.0	77.0	23.1	111 600 *
7.5	75.6	23.0	102 400
8.0	74.2	22.8	91 400
8.5	72.8	22.6	81 200
9.0	71.3	22.5	72 600
10.0	68.4	22.1	59 400
11.0	65.5	21.6	49 500
12.0	62.5	21.1	41 700
13.0	59.3	20.5	35 600
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	155 200 *
5.5	82.2	26.5	145 700 *
6.0	81.0	26.4	132 700 *
6.5	79.8	26.3	121 500 *
7.0	78.6	26.2	111 700 *
7.5	77.4	26.1	102 700
8.0	76.2	26.0	92 400
8.5	75.0	25.8	82 100
9.0	73.8	25.7	73 500
10.0	71.3	25.3	60 200
11.0	68.8	24.9	50 200
12.0	66.2	24.5	42 400
13.0	63.5	24.0	36 200
14.0	60.9	23.4	31 200
15.0	58.1	22.8	27 000
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	138 000 *
6.0	82.0	29.5	132 900 *
6.5	81.0	29.4	121 600 *
7.0	79.9	29.3	111 900 *
7.5	78.9	29.2	103 000
8.0	77.8	29.1	93 300
8.5	76.7	29.0	82 900
9.0	75.6	28.9	74 200
10.0	73.4	28.6	60 800
11.0	71.2	28.2	50 800
12.0	69.0	27.8	43 000
13.0	66.7	27.4	36 800
14.0	64.4	26.9	31 700
15.0	62.0	26.4	27 400
16.0	59.6	25.8	23 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	130 700 *
6.5	81.9	32.5	122 000 *
7.0	80.9	32.5	112 100 *
7.5	80.0	32.4	103 200
8.0	79.0	32.3	93 900
8.5	78.1	32.1	83 500
9.0	77.1	32.0	74 700
10.0	75.1	31.7	61 300
11.0	73.2	31.4	51 300
12.0	71.2	31.1	43 500
13.0	69.2	30.7	37 200
14.0	67.1	30.3	32 100
15.0	65.1	29.8	27 900
16.0	62.9	29.3	24 200
18.0	58.6	28.1	18 500
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	117 600 *
7.0	81.8	35.5	112 300 *
7.5	80.9	35.5	103 400
8.0	80.0	35.4	94 500
8.5	79.2	35.3	84 000
9.0	78.3	35.2	75 200
10.0	76.5	34.9	61 700
11.0	74.8	34.6	51 600
12.0	73.0	34.3	43 800
13.0	71.2	34.0	37 500
14.0	69.3	33.6	32 400
15.0	67.5	33.2	28 100
16.0	65.6	32.7	24 500
18.0	61.7	31.7	18 700
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	117 600 *
7.0	82.5	38.6	112 300 *
7.5	81.7	38.6	103 400
8.0	80.9	38.5	94 900
8.5	80.1	38.4	84 300
9.0	79.3	38.3	75 500
10.0	77.7	38.0	62 000
11.0	76.1	37.8	51 900
12.0	74.4	37.5	44 000
13.0	72.8	37.2	37 800
14.0	71.1	36.8	32 600
15.0	69.5	36.5	28 400
16.0	67.8	36.1	24 700
18.0	64.3	35.1	18 900
20.0	60.7	34.0	14 500

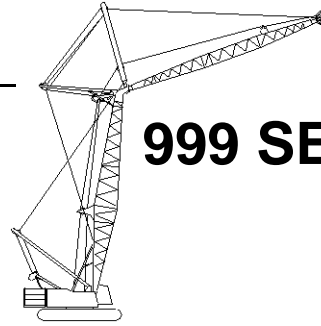
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	106 700 *
7.5	82.3	41.6	103 600
8.0	81.6	41.6	95 200
8.5	80.9	41.5	84 700
9.0	80.1	41.4	75 800
10.0	78.6	41.2	62 300
11.0	77.2	40.9	52 200
12.0	75.7	40.7	44 300
13.0	74.2	40.4	38 000
14.0	72.6	40.1	32 800
15.0	71.1	39.7	28 600
16.0	69.6	39.4	25 000
18.0	66.4	38.5	19 100
20.0	63.2	37.5	14 700
22.0	59.9	36.4	11 200
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	96 900
8.0	82.2	44.6	95 400
8.5	81.5	44.6	84 900
9.0	80.8	44.5	76 100
10.0	79.5	44.3	62 500
11.0	78.1	44.1	52 400
12.0	76.7	43.8	44 400
13.0	75.3	43.6	38 200
14.0	73.9	43.3	33 000
15.0	72.5	43.0	28 700
16.0	71.1	42.6	25 100
18.0	68.2	41.8	19 300
20.0	65.3	40.9	14 800
22.0	62.2	39.9	11 300
24.0	59.1	38.7	8 500



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**



## 999 SERIES 1

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

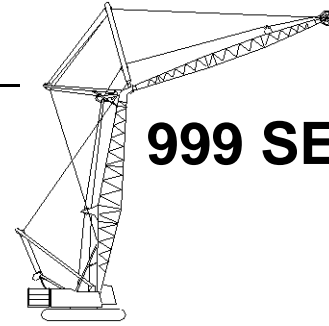
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	91 500 *
8.0	82.7	47.7	90 700
8.5	82.1	47.6	84 800
9.0	81.4	47.6	76 800
10.0	80.2	47.4	62 700
11.0	78.9	47.2	52 500
12.0	77.6	47.0	44 600
13.0	76.3	46.7	38 300
14.0	75.0	46.4	33 100
15.0	73.7	46.2	28 800
16.0	72.4	45.8	25 100
18.0	69.7	45.1	19 300
20.0	67.0	44.3	14 800
22.0	64.3	43.3	11 300
24.0	61.4	42.3	8 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	84 500
9.0	82.0	50.7	76 700
10.0	80.8	50.5	62 800
11.0	79.6	50.3	52 600
12.0	78.4	50.1	44 600
13.0	77.2	49.9	38 300
14.0	76.0	49.6	33 100
15.0	74.8	49.3	28 800
16.0	73.5	49.0	25 100
18.0	71.1	48.4	19 300
20.0	68.5	47.6	14 800
22.0	66.0	46.7	11 300
24.0	63.4	45.7	8 500
26.0	60.7	44.6	6 100

REF ID: A11111111  
ONLY!



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	163 200 *
5.0	82.5	23.5	159 200 *
5.5	81.1	23.4	143 700 *
6.0	79.7	23.3	130 700 *
6.5	78.4	23.2	119 500 *
7.0	77.0	23.1	109 800 *
7.5	75.6	23.0	100 500
8.0	74.2	22.8	89 400
8.5	72.8	22.6	79 300
9.0	71.3	22.5	70 800
10.0	68.4	22.1	57 700
11.0	65.5	21.6	47 900
12.0	62.5	21.1	40 200
13.0	59.3	20.5	34 100
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	153 300 *
5.5	82.2	26.5	143 900 *
6.0	81.0	26.4	130 800 *
6.5	79.8	26.3	119 700 *
7.0	78.6	26.2	110 000 *
7.5	77.4	26.1	100 900
8.0	76.2	26.0	90 500
8.5	75.0	25.8	80 300
9.0	73.8	25.7	71 700
10.0	71.3	25.3	58 500
11.0	68.8	24.9	48 700
12.0	66.2	24.5	41 000
13.0	63.5	24.0	34 800
14.0	60.9	23.4	29 800
15.0	58.1	22.8	25 700
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	136 200 *
6.0	82.0	29.5	131 100 *
6.5	81.0	29.4	119 900 *
7.0	79.9	29.3	110 200 *
7.5	78.9	29.2	101 300
8.0	77.8	29.1	91 400
8.5	76.7	29.0	81 100
9.0	75.6	28.9	72 500
10.0	73.4	28.6	59 300
11.0	71.2	28.2	49 300
12.0	69.0	27.8	41 600
13.0	66.7	27.4	35 400
14.0	64.4	26.9	30 400
15.0	62.0	26.4	26 200
16.0	59.6	25.8	22 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	129 000 *
6.5	81.9	32.5	120 400 *
7.0	80.9	32.5	110 500 *
7.5	80.0	32.4	101 600
8.0	79.0	32.3	92 100
8.5	78.1	32.1	81 700
9.0	77.1	32.0	73 100
10.0	75.1	31.7	59 800
11.0	73.2	31.4	49 900
12.0	71.2	31.1	42 200
13.0	69.2	30.7	36 000
14.0	67.1	30.3	30 900
15.0	65.1	29.8	26 700
16.0	62.9	29.3	23 100
18.0	58.6	28.1	17 400
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	116 000 *
7.0	81.8	35.5	110 700 *
7.5	80.9	35.5	101 700
8.0	80.0	35.4	92 700
8.5	79.2	35.3	82 300
9.0	78.3	35.2	73 600
10.0	76.5	34.9	60 300
11.0	74.8	34.6	50 300
12.0	73.0	34.3	42 500
13.0	71.2	34.0	36 300
14.0	69.3	33.6	31 200
15.0	67.5	33.2	27 000
16.0	65.6	32.7	23 400
18.0	61.7	31.7	17 700
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	116 000 *
7.0	82.5	38.6	110 700 *
7.5	81.7	38.6	101 900
8.0	80.9	38.5	93 100
8.5	80.1	38.4	82 700
9.0	79.3	38.3	74 000
10.0	77.7	38.0	60 600
11.0	76.1	37.8	50 600
12.0	74.4	37.5	42 800
13.0	72.8	37.2	36 500
14.0	71.1	36.8	31 500
15.0	69.5	36.5	27 200
16.0	67.8	36.1	23 600
18.0	64.3	35.1	17 900
20.0	60.7	34.0	13 500

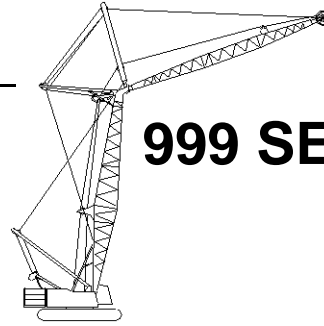
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	105 200 *
7.5	82.3	41.6	102 100
8.0	81.6	41.6	93 500
8.5	80.9	41.5	83 100
9.0	80.1	41.4	74 300
10.0	78.6	41.2	60 900
11.0	77.2	40.9	50 900
12.0	75.7	40.7	43 100
13.0	74.2	40.4	36 900
14.0	72.6	40.1	31 800
15.0	71.1	39.7	27 500
16.0	69.6	39.4	23 900
18.0	66.4	38.5	18 100
20.0	63.2	37.5	13 800
22.0	59.9	36.4	10 300
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	95 200
8.0	82.2	44.6	93 700
8.5	81.5	44.6	83 300
9.0	80.8	44.5	74 600
10.0	79.5	44.3	61 200
11.0	78.1	44.1	51 100
12.0	76.7	43.8	43 300
13.0	75.3	43.6	37 000
14.0	73.9	43.3	31 900
15.0	72.5	43.0	27 700
16.0	71.1	42.6	24 100
18.0	68.2	41.8	18 300
20.0	65.3	40.9	13 900
22.0	62.2	39.9	10 400
24.0	59.1	38.7	7 600



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
 ANSI B30.5  
 Requirements**

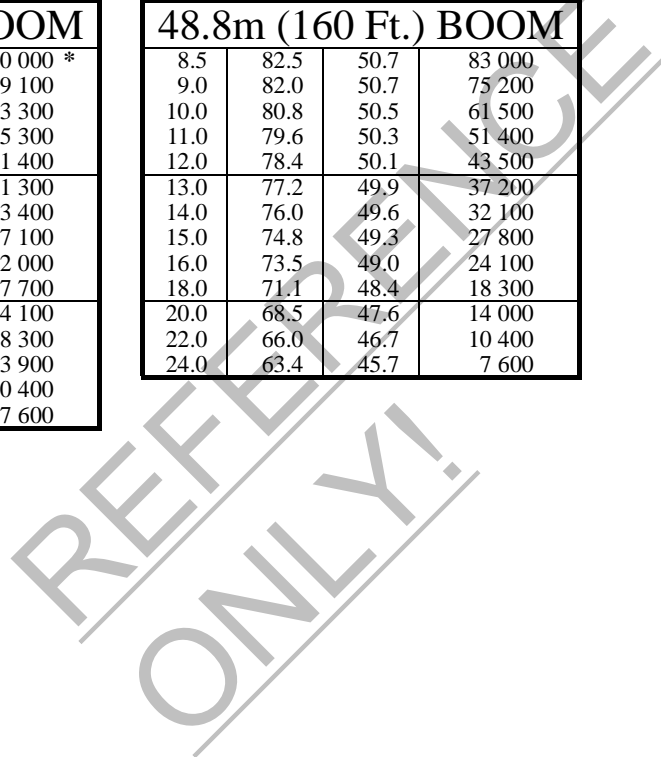


## 999 SERIES 1

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

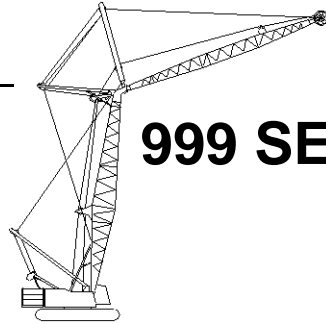
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	90 000 *
8.0	82.7	47.7	89 100
8.5	82.1	47.6	83 300
9.0	81.4	47.6	75 300
10.0	80.2	47.4	61 400
11.0	78.9	47.2	51 300
12.0	77.6	47.0	43 400
13.0	76.3	46.7	37 100
14.0	75.0	46.4	32 000
15.0	73.7	46.2	27 700
16.0	72.4	45.8	24 100
18.0	69.7	45.1	18 300
20.0	67.0	44.3	13 900
22.0	64.3	43.3	10 400
24.0	61.4	42.3	7 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	83 000
9.0	82.0	50.7	75 200
10.0	80.8	50.5	61 500
11.0	79.6	50.3	51 400
12.0	78.4	50.1	43 500
13.0	77.2	49.9	37 200
14.0	76.0	49.6	32 100
15.0	74.8	49.3	27 800
16.0	73.5	49.0	24 100
18.0	71.1	48.4	18 300
20.0	68.5	47.6	14 000
22.0	66.0	46.7	10 400
24.0	63.4	45.7	7 600





# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	165 900 *
5.0	82.5	23.5	161 800 *
5.5	81.1	23.4	145 900 *
6.0	79.7	23.3	132 600 *
6.5	78.4	23.2	121 200 *
7.0	77.0	23.1	111 300 *
7.5	75.6	23.0	102 000
8.0	74.2	22.8	91 000
8.5	72.8	22.6	80 600
9.0	71.3	22.5	71 900
10.0	68.4	22.1	58 500
11.0	65.5	21.6	48 400
12.0	62.5	21.1	40 500
13.0	59.3	20.5	34 300
14.0	56.1	19.8	29 200
15.0	52.7	19.0	24 900
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	155 800 *
5.5	82.2	26.5	146 200 *
6.0	81.0	26.4	132 900 *
6.5	79.8	26.3	121 500 *
7.0	78.6	26.2	111 600 *
7.5	77.4	26.1	102 400
8.0	76.2	26.0	92 300
8.5	75.0	25.8	81 800
9.0	73.8	25.7	73 000
10.0	71.3	25.3	59 500
11.0	68.8	24.9	49 400
12.0	66.2	24.5	41 500
13.0	63.5	24.0	35 200
14.0	60.9	23.4	30 000
15.0	58.1	22.8	25 700
16.0	55.2	22.1	22 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	138 400 *
6.0	82.0	29.5	133 200 *
6.5	81.0	29.4	121 800 *
7.0	79.9	29.3	111 900 *
7.5	78.9	29.2	102 900
8.0	77.8	29.1	93 300
8.5	76.7	29.0	82 800
9.0	75.6	28.9	73 900
10.0	73.4	28.6	60 300
11.0	71.2	28.2	50 100
12.0	69.0	27.8	42 200
13.0	66.7	27.4	35 900
14.0	64.4	26.9	30 700
15.0	62.0	26.4	26 400
16.0	59.6	25.8	22 700
18.0	54.5	24.4	16 900
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	131 100 *
6.5	81.9	32.5	122 300 *
7.0	80.9	32.5	112 200 *
7.5	80.0	32.4	103 300
8.0	79.0	32.3	94 100
8.5	78.1	32.1	83 500
9.0	77.1	32.0	74 600
10.0	75.1	31.7	61 000
11.0	73.2	31.4	50 800
12.0	71.2	31.1	42 800
13.0	69.2	30.7	36 500
14.0	67.1	30.3	31 300
15.0	65.1	29.8	27 000
16.0	62.9	29.3	23 300
18.0	58.6	28.1	17 400

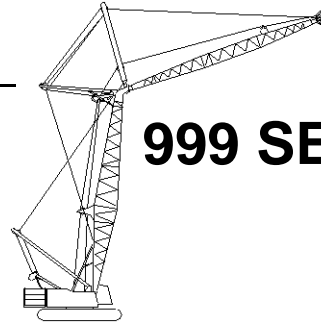
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	117 900 *
7.0	81.8	35.5	112 500 *
7.5	80.9	35.5	103 500
8.0	80.0	35.4	94 700
8.5	79.2	35.3	84 100
9.0	78.3	35.2	75 200
10.0	76.5	34.9	61 500
11.0	74.8	34.6	51 200
12.0	73.0	34.3	43 300
13.0	71.2	34.0	36 900
14.0	69.3	33.6	31 700
15.0	67.5	33.2	27 300
16.0	65.6	32.7	23 600
18.0	61.7	31.7	17 800
20.0	57.7	30.4	13 300
22.0	53.5	29.0	9 700
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	118 000 *
7.0	82.5	38.6	112 600 *
7.5	81.7	38.6	103 600
8.0	80.9	38.5	95 300
8.5	80.1	38.4	84 500
9.0	79.3	38.3	75 600
10.0	77.7	38.0	61 900
11.0	76.1	37.8	51 600
12.0	74.4	37.5	43 600
13.0	72.8	37.2	37 200
14.0	71.1	36.8	32 000
15.0	69.5	36.5	27 600
16.0	67.8	36.1	24 000
18.0	64.3	35.1	18 100
20.0	60.7	34.0	13 600
22.0	57.0	32.8	10 000
24.0	53.2	31.3	7 100



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**



## 999 SERIES 1

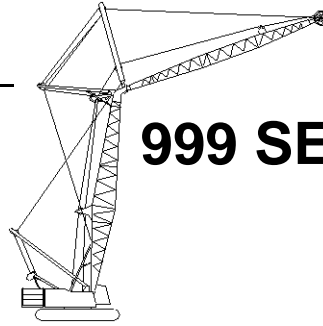
### 39.6m (130 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	106 900 *
7.5	82.3	41.6	104 000
8.0	81.6	41.6	95 700
8.5	80.9	41.5	85 000
9.0	80.1	41.4	76 000
10.0	78.6	41.2	62 200
11.0	77.2	40.9	52 000
12.0	75.7	40.7	44 000
13.0	74.2	40.4	37 600
14.0	72.6	40.1	32 300
15.0	71.1	39.7	28 000
16.0	69.6	39.4	24 300
18.0	66.4	38.5	18 400
20.0	63.2	37.5	13 900
22.0	59.9	36.4	10 300
24.0	56.4	35.1	7 400
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	97 400 *
8.0	82.2	44.6	95 800
8.5	81.5	44.6	85 200
9.0	80.8	44.5	76 300
10.0	79.5	44.3	62 500
11.0	78.1	44.1	52 200
12.0	76.7	43.8	44 200
13.0	75.3	43.6	37 800
14.0	73.9	43.3	32 500
15.0	72.5	43.0	28 200
16.0	71.1	42.6	24 400
18.0	68.2	41.8	18 600
20.0	65.3	40.9	14 000
22.0	62.2	39.9	10 500
24.0	59.1	38.7	7 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	93 200 *
8.0	82.7	47.7	92 200
8.5	82.1	47.6	85 300
9.0	81.4	47.6	77 000
10.0	80.2	47.4	62 800
11.0	78.9	47.2	52 400
12.0	77.6	47.0	44 300
13.0	76.3	46.7	37 900
14.0	75.0	46.4	32 700
15.0	73.7	46.2	28 300
16.0	72.4	45.8	24 600
18.0	69.7	45.1	18 600
20.0	67.0	44.3	14 100
22.0	64.3	43.3	10 500
24.0	61.4	42.3	7 600
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	85 000
9.0	82.0	50.7	77 000
10.0	80.8	50.5	62 900
11.0	79.6	50.3	52 500
12.0	78.4	50.1	44 500
13.0	77.2	49.9	38 000
14.0	76.0	49.6	32 800
15.0	74.8	49.3	28 300
16.0	73.5	49.0	24 600
18.0	71.1	48.4	18 700
20.0	68.5	47.6	14 200
22.0	66.0	46.7	10 600
24.0	63.4	45.7	7 700



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	164 300 *
5.0	82.5	23.5	160 100 *
5.5	81.1	23.4	144 300 *
6.0	79.7	23.3	131 000 *
6.5	78.4	23.2	119 600 *
7.0	77.0	23.1	109 700 *
7.5	75.6	23.0	100 300 *
8.0	74.2	22.8	89 200 *
8.5	72.8	22.6	78 900 *
9.0	71.3	22.5	70 200 *
10.0	68.4	22.1	56 900 *
11.0	65.5	21.6	46 900 *
12.0	62.5	21.1	39 100 *
13.0	59.3	20.5	32 900 *
14.0	56.1	19.8	27 800 *
15.0	52.7	19.0	23 500 *
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	154 200 *
5.5	82.2	26.5	144 600 *
6.0	81.0	26.4	131 300 *
6.5	79.8	26.3	120 000 *
7.0	78.6	26.2	110 100 *
7.5	77.4	26.1	100 900 *
8.0	76.2	26.0	90 600 *
8.5	75.0	25.8	80 100 *
9.0	73.8	25.7	71 400 *
10.0	71.3	25.3	58 000 *
11.0	68.8	24.9	47 900 *
12.0	66.2	24.5	40 100 *
13.0	63.5	24.0	33 800 *
14.0	60.9	23.4	28 700 *
15.0	58.1	22.8	24 500 *
16.0	55.2	22.1	20 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	136 900 *
6.0	82.0	29.5	131 700 *
6.5	81.0	29.4	120 300 *
7.0	79.9	29.3	110 400 *
7.5	78.9	29.2	101 400 *
8.0	77.8	29.1	91 700 *
8.5	76.7	29.0	81 200 *
9.0	75.6	28.9	72 400 *
10.0	73.4	28.6	58 900 *
11.0	71.2	28.2	48 800 *
12.0	69.0	27.8	40 900 *
13.0	66.7	27.4	34 600 *
14.0	64.4	26.9	29 500 *
15.0	62.0	26.4	25 200 *
16.0	59.6	25.8	21 500 *
18.0	54.5	24.4	15 700 *
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	129 700 *
6.5	81.9	32.5	120 900 *
7.0	80.9	32.5	110 800 *
7.5	80.0	32.4	101 900 *
8.0	79.0	32.3	92 500 *
8.5	78.1	32.1	82 000 *
9.0	77.1	32.0	73 200 *
10.0	75.1	31.7	59 600 *
11.0	73.2	31.4	49 500 *
12.0	71.2	31.1	41 600 *
13.0	69.2	30.7	35 300 *
14.0	67.1	30.3	30 200 *
15.0	65.1	29.8	25 900 *
16.0	62.9	29.3	22 200 *
18.0	58.6	28.1	16 400 *

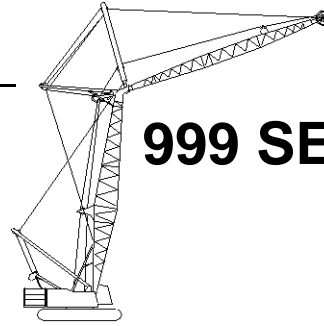
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	116 500 *
7.0	81.8	35.5	111 100 *
7.5	80.9	35.5	102 100 *
8.0	80.0	35.4	93 200 *
8.5	79.2	35.3	82 700 *
9.0	78.3	35.2	73 800 *
10.0	76.5	34.9	60 200 *
11.0	74.8	34.6	50 000 *
12.0	73.0	34.3	42 100 *
13.0	71.2	34.0	35 800 *
14.0	69.3	33.6	30 600 *
15.0	67.5	33.2	26 300 *
16.0	65.6	32.7	22 600 *
18.0	61.7	31.7	16 800 *
20.0	57.7	30.4	12 300 *
22.0	53.5	29.0	8 800 *
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	116 700 *
7.0	82.5	38.6	111 300 *
7.5	81.7	38.6	102 300 *
8.0	80.9	38.5	93 800 *
8.5	80.1	38.4	83 200 *
9.0	79.3	38.3	74 300 *
10.0	77.7	38.0	60 600 *
11.0	76.1	37.8	50 400 *
12.0	74.4	37.5	42 500 *
13.0	72.8	37.2	36 100 *
14.0	71.1	36.8	30 900 *
15.0	69.5	36.5	26 600 *
16.0	67.8	36.1	22 900 *
18.0	64.3	35.1	17 100 *
20.0	60.7	34.0	12 600 *
22.0	57.0	32.8	9 100 *
24.0	53.2	31.3	6 200 *



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**



## 999 SERIES 1

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

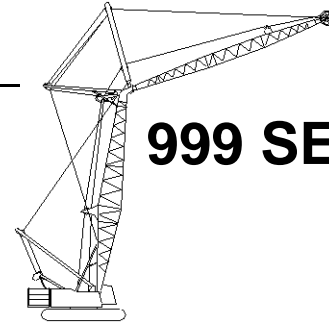
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	105 600 *
7.5	82.3	41.6	102 600
8.0	81.6	41.6	94 300
8.5	80.9	41.5	83 600
9.0	80.1	41.4	74 700
10.0	78.6	41.2	61 000
11.0	77.2	40.9	50 800
12.0	75.7	40.7	42 900
13.0	74.2	40.4	36 500
14.0	72.6	40.1	31 300
15.0	71.1	39.7	27 000
16.0	69.6	39.4	23 300
18.0	66.4	38.5	17 400
20.0	63.2	37.5	13 000
22.0	59.9	36.4	9 400
24.0	56.4	35.1	6 600
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	96 100
8.0	82.2	44.6	94 500
8.5	81.5	44.6	83 900
9.0	80.8	44.5	75 100
10.0	79.5	44.3	61 300
11.0	78.1	44.1	51 100
12.0	76.7	43.8	43 100
13.0	75.3	43.6	36 700
14.0	73.9	43.3	31 500
15.0	72.5	43.0	27 200
16.0	71.1	42.6	23 500
18.0	68.2	41.8	17 700
20.0	65.3	40.9	13 200
22.0	62.2	39.9	9 600
24.0	59.1	38.7	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	91 900 *
8.0	82.7	47.7	90 900
8.5	82.1	47.6	84 000
9.0	81.4	47.6	75 800
10.0	80.2	47.4	61 600
11.0	78.9	47.2	51 300
12.0	77.6	47.0	43 300
13.0	76.3	46.7	36 900
14.0	75.0	46.4	31 700
15.0	73.7	46.2	27 300
16.0	72.4	45.8	23 600
18.0	69.7	45.1	17 800
20.0	67.0	44.3	13 300
22.0	64.3	43.3	9 700
24.0	61.4	42.3	6 800
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	83 700
9.0	82.0	50.7	75 800
10.0	80.8	50.5	61 800
11.0	79.6	50.3	51 500
12.0	78.4	50.1	43 500
13.0	77.2	49.9	37 100
14.0	76.0	49.6	31 800
15.0	74.8	49.3	27 400
16.0	73.5	49.0	23 700
18.0	71.1	48.4	17 900
20.0	68.5	47.6	13 300
22.0	66.0	46.7	9 800
24.0	63.4	45.7	6 900





# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

Boom No. 82 or 22EL  
Luffing Jib No. 135  
67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	163 100 *
5.0	82.5	23.5	158 900 *
5.5	81.1	23.4	143 100 *
6.0	79.7	23.3	129 900 *
6.5	78.4	23.2	118 400 *
7.0	77.0	23.1	108 600 *
7.5	75.6	23.0	99 100
8.0	74.2	22.8	87 800
8.5	72.8	22.6	77 600
9.0	71.3	22.5	69 000
10.0	68.4	22.1	55 700
11.0	65.5	21.6	45 800
12.0	62.5	21.1	38 000
13.0	59.3	20.5	31 900
14.0	56.1	19.8	26 800
15.0	52.7	19.0	22 600
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	153 100 *
5.5	82.2	26.5	143 500 *
6.0	81.0	26.4	130 300 *
6.5	79.8	26.3	118 900 *
7.0	78.6	26.2	109 000 *
7.5	77.4	26.1	99 800
8.0	76.2	26.0	89 200
8.5	75.0	25.8	78 900
9.0	73.8	25.7	70 300
10.0	71.3	25.3	56 900
11.0	68.8	24.9	46 900
12.0	66.2	24.5	39 100
13.0	63.5	24.0	32 900
14.0	60.9	23.4	27 800
15.0	58.1	22.8	23 600
16.0	55.2	22.1	20 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	135 800 *
6.0	82.0	29.5	130 700 *
6.5	81.0	29.4	119 300 *
7.0	79.9	29.3	109 400 *
7.5	78.9	29.2	100 400
8.0	77.8	29.1	90 500
8.5	76.7	29.0	80 000
9.0	75.6	28.9	71 300
10.0	73.4	28.6	57 900
11.0	71.2	28.2	47 800
12.0	69.0	27.8	40 000
13.0	66.7	27.4	33 800
14.0	64.4	26.9	28 700
15.0	62.0	26.4	24 400
16.0	59.6	25.8	20 800
18.0	54.5	24.4	15 000
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	128 600 *
6.5	81.9	32.5	119 900 *
7.0	80.9	32.5	109 800 *
7.5	80.0	32.4	100 900
8.0	79.0	32.3	91 300
8.5	78.1	32.1	80 900
9.0	77.1	32.0	72 100
10.0	75.1	31.7	58 700
11.0	73.2	31.4	48 600
12.0	71.2	31.1	40 800
13.0	69.2	30.7	34 500
14.0	67.1	30.3	29 300
15.0	65.1	29.8	25 100
16.0	62.9	29.3	21 500
18.0	58.6	28.1	15 700

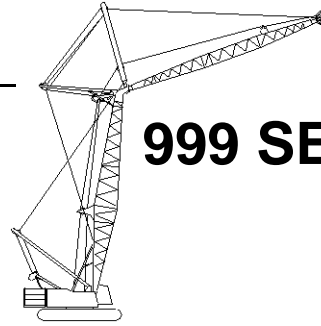
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	115 600 *
7.0	81.8	35.5	110 200 *
7.5	80.9	35.5	101 100
8.0	80.0	35.4	92 100
8.5	79.2	35.3	81 600
9.0	78.3	35.2	72 800
10.0	76.5	34.9	59 300
11.0	74.8	34.6	49 100
12.0	73.0	34.3	41 300
13.0	71.2	34.0	35 000
14.0	69.3	33.6	29 800
15.0	67.5	33.2	25 500
16.0	65.6	32.7	21 900
18.0	61.7	31.7	16 100
20.0	57.7	30.4	11 700
22.0	53.5	29.0	8 200
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	115 700 *
7.0	82.5	38.6	110 300 *
7.5	81.7	38.6	101 400
8.0	80.9	38.5	92 700
8.5	80.1	38.4	82 200
9.0	79.3	38.3	73 300
10.0	77.7	38.0	59 700
11.0	76.1	37.8	49 600
12.0	74.4	37.5	41 700
13.0	72.8	37.2	35 400
14.0	71.1	36.8	30 200
15.0	69.5	36.5	25 900
16.0	67.8	36.1	22 300
18.0	64.3	35.1	16 500
20.0	60.7	34.0	12 000
22.0	57.0	32.8	8 500
24.0	53.2	31.3	5 700



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**



## 999 SERIES 1

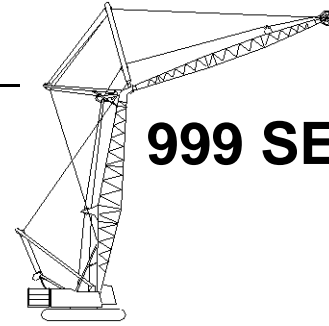
### 45.7m (150 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	104 800 *
7.5	82.3	41.6	101 700
8.0	81.6	41.6	93 200
8.5	80.9	41.5	82 600
9.0	80.1	41.4	73 800
10.0	78.6	41.2	60 200
11.0	77.2	40.9	50 000
12.0	75.7	40.7	42 100
13.0	74.2	40.4	35 800
14.0	72.6	40.1	30 600
15.0	71.1	39.7	26 300
16.0	69.6	39.4	22 700
18.0	66.4	38.5	16 800
20.0	63.2	37.5	12 400
22.0	59.9	36.4	8 900
24.0	56.4	35.1	6 000
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	95 100
8.0	82.2	44.6	93 500
8.5	81.5	44.6	82 900
9.0	80.8	44.5	74 100
10.0	79.5	44.3	60 500
11.0	78.1	44.1	50 300
12.0	76.7	43.8	42 400
13.0	75.3	43.6	36 100
14.0	73.9	43.3	30 900
15.0	72.5	43.0	26 600
16.0	71.1	42.6	22 900
18.0	68.2	41.8	17 100
20.0	65.3	40.9	12 600
22.0	62.2	39.9	9 100
24.0	59.1	38.7	6 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	91 100 *
8.0	82.7	47.7	90 100
8.5	82.1	47.6	83 100
9.0	81.4	47.6	74 900
10.0	80.2	47.4	60 800
11.0	78.9	47.2	50 600
12.0	77.6	47.0	42 600
13.0	76.3	46.7	36 300
14.0	75.0	46.4	31 100
15.0	73.7	46.2	26 700
16.0	72.4	45.8	23 100
18.0	69.7	45.1	17 200
20.0	67.0	44.3	12 700
22.0	64.3	43.3	9 200
24.0	61.4	42.3	6 300
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	82 800
9.0	82.0	50.7	74 900
10.0	80.8	50.5	61 000
11.0	79.6	50.3	50 700
12.0	78.4	50.1	42 800
13.0	77.2	49.9	36 400
14.0	76.0	49.6	31 200
15.0	74.8	49.3	26 800
16.0	73.5	49.0	23 100
18.0	71.1	48.4	17 300
20.0	68.5	47.6	12 800
22.0	66.0	46.7	9 300
24.0	63.4	45.7	6 400



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	161 300 *
5.0	82.5	23.5	157 200 *
5.5	81.1	23.4	141 400 *
6.0	79.7	23.3	128 200 *
6.5	78.4	23.2	116 800 *
7.0	77.0	23.1	106 900 *
7.5	75.6	23.0	97 400
8.0	74.2	22.8	85 900
8.5	72.8	22.6	75 700
9.0	71.3	22.5	67 300
10.0	68.4	22.1	54 100
11.0	65.5	21.6	44 200
12.0	62.5	21.1	36 500
13.0	59.3	20.5	30 400
14.0	56.1	19.8	25 400
15.0	52.7	19.0	21 200
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	151 400 *
5.5	82.2	26.5	141 800 *
6.0	81.0	26.4	128 600 *
6.5	79.8	26.3	117 300 *
7.0	78.6	26.2	107 500 *
7.5	77.4	26.1	98 200
8.0	76.2	26.0	87 500
8.5	75.0	25.8	77 200
9.0	73.8	25.7	68 600
10.0	71.3	25.3	55 400
11.0	68.8	24.9	45 400
12.0	66.2	24.5	37 700
13.0	63.5	24.0	31 500
14.0	60.9	23.4	26 500
15.0	58.1	22.8	22 300
16.0	55.2	22.1	18 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	134 300 *
6.0	82.0	29.5	129 100 *
6.5	81.0	29.4	117 700 *
7.0	79.9	29.3	107 900 *
7.5	78.9	29.2	98 800
8.0	77.8	29.1	88 700
8.5	76.7	29.0	78 400
9.0	75.6	28.9	69 700
10.0	73.4	28.6	56 400
11.0	71.2	28.2	46 400
12.0	69.0	27.8	38 700
13.0	66.7	27.4	32 500
14.0	64.4	26.9	27 400
15.0	62.0	26.4	23 200
16.0	59.6	25.8	19 600
18.0	54.5	24.4	13 800
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	127 100 *
6.5	81.9	32.5	118 400 *
7.0	80.9	32.5	108 400 *
7.5	80.0	32.4	99 400
8.0	79.0	32.3	89 700
8.5	78.1	32.1	79 300
9.0	77.1	32.0	70 600
10.0	75.1	31.7	57 200
11.0	73.2	31.4	47 200
12.0	71.2	31.1	39 500
13.0	69.2	30.7	33 200
14.0	67.1	30.3	28 200
15.0	65.1	29.8	23 900
16.0	62.9	29.3	20 300
18.0	58.6	28.1	14 600

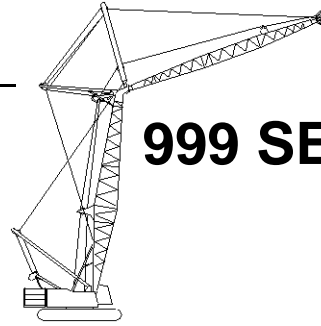
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	114 200 *
7.0	81.8	35.5	108 800 *
7.5	80.9	35.5	99 700
8.0	80.0	35.4	90 600
8.5	79.2	35.3	80 100
9.0	78.3	35.2	71 300
10.0	76.5	34.9	57 900
11.0	74.8	34.6	47 900
12.0	73.0	34.3	40 000
13.0	71.2	34.0	33 800
14.0	69.3	33.6	28 700
15.0	67.5	33.2	24 400
16.0	65.6	32.7	20 800
18.0	61.7	31.7	15 100
20.0	57.7	30.4	10 600
22.0	53.5	29.0	7 200
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	114 300 *
7.0	82.5	38.6	109 000 *
7.5	81.7	38.6	100 000
8.0	80.9	38.5	91 200
8.5	80.1	38.4	80 700
9.0	79.3	38.3	71 900
10.0	77.7	38.0	58 400
11.0	76.1	37.8	48 400
12.0	74.4	37.5	40 500
13.0	72.8	37.2	34 200
14.0	71.1	36.8	29 100
15.0	69.5	36.5	24 900
16.0	67.8	36.1	21 200
18.0	64.3	35.1	15 500
20.0	60.7	34.0	11 100
22.0	57.0	32.8	7 600



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**



## 999 SERIES 1

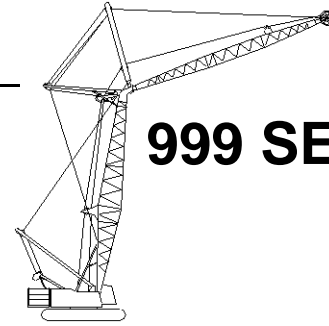
### 48.8m (160 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	103 400 *
7.5	82.3	41.6	100 300
8.0	81.6	41.6	91 700
8.5	80.9	41.5	81 200
9.0	80.1	41.4	72 400
10.0	78.6	41.2	58 900
11.0	77.2	40.9	48 800
12.0	75.7	40.7	41 000
13.0	74.2	40.4	34 700
14.0	72.6	40.1	29 500
15.0	71.1	39.7	25 300
16.0	69.6	39.4	21 600
18.0	66.4	38.5	15 800
20.0	63.2	37.5	11 500
22.0	59.9	36.4	7 900
24.0	56.4	35.1	5 100
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	93 600
8.0	82.2	44.6	92 000
8.5	81.5	44.6	81 500
9.0	80.8	44.5	72 800
10.0	79.5	44.3	59 300
11.0	78.1	44.1	49 100
12.0	76.7	43.8	41 300
13.0	75.3	43.6	35 000
14.0	73.9	43.3	29 800
15.0	72.5	43.0	25 600
16.0	71.1	42.6	21 900
18.0	68.2	41.8	16 100
20.0	65.3	40.9	11 700
22.0	62.2	39.9	8 200
24.0	59.1	38.7	5 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	89 800 *
8.0	82.7	47.7	88 700
8.5	82.1	47.6	81 700
9.0	81.4	47.6	73 600
10.0	80.2	47.4	59 600
11.0	78.9	47.2	49 400
12.0	77.6	47.0	41 500
13.0	76.3	46.7	35 200
14.0	75.0	46.4	30 000
15.0	73.7	46.2	25 700
16.0	72.4	45.8	22 100
18.0	69.7	45.1	16 300
20.0	67.0	44.3	11 800
22.0	64.3	43.3	8 300
24.0	61.4	42.3	5 500
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	81 500
9.0	82.0	50.7	73 700
10.0	80.8	50.5	59 800
11.0	79.6	50.3	49 600
12.0	78.4	50.1	41 700
13.0	77.2	49.9	35 400
14.0	76.0	49.6	30 200
15.0	74.8	49.3	25 900
16.0	73.5	49.0	22 200
18.0	71.1	48.4	16 400
20.0	68.5	47.6	12 000
22.0	66.0	46.7	8 400
24.0	63.4	45.7	5 600



# Liftcrane Boom Capacities With Luffing Jib Attached



## 999 SERIES 1

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg 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
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	159 700 *
5.0	82.5	23.5	155 500 *
5.5	81.1	23.4	139 800 *
6.0	79.7	23.3	126 600 *
6.5	78.4	23.2	115 200 *
7.0	77.0	23.1	105 400 *
7.5	75.6	23.0	95 900
8.0	74.2	22.8	84 100
8.5	72.8	22.6	74 000
9.0	71.3	22.5	65 600
10.0	68.4	22.1	52 500
11.0	65.5	21.6	42 700
12.0	62.5	21.1	35 100
13.0	59.3	20.5	29 000
14.0	56.1	19.8	24 000
15.0	52.7	19.0	19 900
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	149 900 *
5.5	82.2	26.5	140 300 *
6.0	81.0	26.4	127 100 *
6.5	79.8	26.3	115 800 *
7.0	78.6	26.2	106 000 *
7.5	77.4	26.1	96 700
8.0	76.2	26.0	85 700
8.5	75.0	25.8	75 600
9.0	73.8	25.7	67 100
10.0	71.3	25.3	53 900
11.0	68.8	24.9	44 100
12.0	66.2	24.5	36 400
13.0	63.5	24.0	30 300
14.0	60.9	23.4	25 300
15.0	58.1	22.8	21 100
16.0	55.2	22.1	17 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	132 900 *
6.0	82.0	29.5	127 700 *
6.5	81.0	29.4	116 300 *
7.0	79.9	29.3	106 500 *
7.5	78.9	29.2	97 400
8.0	77.8	29.1	87 100
8.5	76.7	29.0	76 900
9.0	75.6	28.9	68 300
10.0	73.4	28.6	55 100
11.0	71.2	28.2	45 100
12.0	69.0	27.8	37 400
13.0	66.7	27.4	31 300
14.0	64.4	26.9	26 200
15.0	62.0	26.4	22 000
16.0	59.6	25.8	18 500
18.0	54.5	24.4	12 800
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	125 700 *
6.5	81.9	32.5	117 000 *
7.0	80.9	32.5	107 000 *
7.5	80.0	32.4	98 000
8.0	79.0	32.3	88 100
8.5	78.1	32.1	77 800
9.0	77.1	32.0	69 200
10.0	75.1	31.7	55 900
11.0	73.2	31.4	46 000
12.0	71.2	31.1	38 300
13.0	69.2	30.7	32 100
14.0	67.1	30.3	27 100
15.0	65.1	29.8	22 800
16.0	62.9	29.3	19 300
18.0	58.6	28.1	13 600

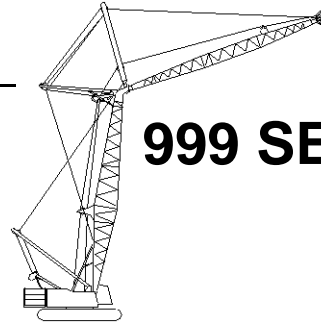
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	112 800 *
7.0	81.8	35.5	107 500 *
7.5	80.9	35.5	98 300
8.0	80.0	35.4	89 000
8.5	79.2	35.3	78 700
9.0	78.3	35.2	70 000
10.0	76.5	34.9	56 700
11.0	74.8	34.6	46 700
12.0	73.0	34.3	38 900
13.0	71.2	34.0	32 700
14.0	69.3	33.6	27 600
15.0	67.5	33.2	23 400
16.0	65.6	32.7	19 800
18.0	61.7	31.7	14 100
20.0	57.7	30.4	9 700
22.0	53.5	29.0	6 300
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	113 000 *
7.0	82.5	38.6	107 700 *
7.5	81.7	38.6	98 700
8.0	80.9	38.5	89 700
8.5	80.1	38.4	79 300
9.0	79.3	38.3	70 600
10.0	77.7	38.0	57 200
11.0	76.1	37.8	47 200
12.0	74.4	37.5	39 400
13.0	72.8	37.2	33 200
14.0	71.1	36.8	28 100
15.0	69.5	36.5	23 900
16.0	67.8	36.1	20 300
18.0	64.3	35.1	14 600
20.0	60.7	34.0	10 200
22.0	57.0	32.8	6 700



# Liftcrane Boom Capacities With Luffing Jib Attached

**Boom No. 82 or 22EL**  
**Luffing Jib No. 135**  
**67 860 kg Counterweight**  
**360 Degree Rating**

**Meets  
ANSI B30.5  
Requirements**



## 999 SERIES 1

### 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
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	102 200 *
7.5	82.3	41.6	99 000
8.0	81.6	41.6	90 300
8.5	80.9	41.5	79 900
9.0	80.1	41.4	71 100
10.0	78.6	41.2	57 700
11.0	77.2	40.9	47 700
12.0	75.7	40.7	39 900
13.0	74.2	40.4	33 700
14.0	72.6	40.1	28 600
15.0	71.1	39.7	24 300
16.0	69.6	39.4	20 700
18.0	66.4	38.5	15 000
20.0	63.2	37.5	10 600
22.0	59.9	36.4	7 100
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	92 200
8.0	82.2	44.6	90 600
8.5	81.5	44.6	80 300
9.0	80.8	44.5	71 600
10.0	79.5	44.3	58 100
11.0	78.1	44.1	48 100
12.0	76.7	43.8	40 300
13.0	75.3	43.6	34 000
14.0	73.9	43.3	28 900
15.0	72.5	43.0	24 600
16.0	71.1	42.6	21 000
18.0	68.2	41.8	15 300
20.0	65.3	40.9	10 900
22.0	62.2	39.9	7 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	88 600 *
8.0	82.7	47.7	87 500
8.5	82.1	47.6	80 500
9.0	81.4	47.6	72 400
10.0	80.2	47.4	58 500
11.0	78.9	47.2	48 400
12.0	77.6	47.0	40 500
13.0	76.3	46.7	34 300
14.0	75.0	46.4	29 100
15.0	73.7	46.2	24 900
16.0	72.4	45.8	21 200
18.0	69.7	45.1	15 500
20.0	67.0	44.3	11 100
22.0	64.3	43.3	7 600
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	80 300
9.0	82.0	50.7	72 500
10.0	80.8	50.5	58 700
11.0	79.6	50.3	48 600
12.0	78.4	50.1	40 700
13.0	77.2	49.9	34 500
14.0	76.0	49.6	29 300
15.0	74.8	49.3	25 000
16.0	73.5	49.0	21 400
18.0	71.1	48.4	15 600
20.0	68.5	47.6	11 200
22.0	66.0	46.7	7 700