



**999
SERIES 3**

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

**Maximum Operating Wind Speeds
(all boom lengths)**
**10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib**

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4.0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*).

57.9m boom length requires only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Weight of all load blocks, hooks, weight ball, slings, etc., beneath boom point sheaves, is considered part of main boom load. Reeved hoist line included in boom weight. 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. 8276-A** and Luffing Jib Raising Procedure chart **No. 9267-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.

WIND CONDITIONS: Machine may be operated in winds stated in Maximum Operating Wind Speed table provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind will have a considerable effect on load with a large "sail area" and must be compensated for accordingly by reducing load ratings, reducing operating speeds, or by a combination of both. Load block (1 280 kg minimum) must be suspended below luffing jib point

when luffing jib is positioned above 55 degrees for operation above 7 m/s. Wind speed to be measured at luffing jib point elevation. **Operation is not permitted when wind is above conditions stated in Maximum Operating Wind Speed table.** Park crane (upper inline with crawlers) with load block on ground or secured and position boom at 70 degrees and luffing jib at 55 degrees. Lower boom and jib onto blocking at ground level when wind is above 22 m/s.

MACHINE TRAVEL: Machine to travel on a firm, level (not to exceed 13 mm in 3m) and uniformly supporting surface. *ravel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0.4 m/s. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8249-C**.

MAX PERMISSIBLE SLEWING SPEED: Slewing operation with working load shall not exceed 0.4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2.5 seconds.

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.

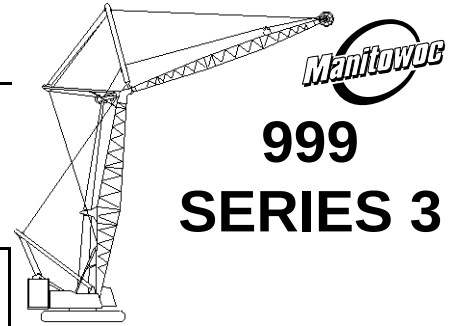
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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.

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

Consult Chart **No. 8240-AM** for luffing jib capacities.

Boom Catwalks Deduct
Deduct 200 kg from capacities when boom catwalks are attached.



Liftcrane Boom Capacities With Luffing Jib Attached

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**Maximum Operating Wind Speeds
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10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	168 800 *
6.5	78.4	23.2	157 500 *
7.0	77.0	23.1	144 900 *
7.5	75.6	23.0	134 900 *
8.0	74.2	22.8	126 100 *
8.5	72.8	22.6	118 200 *
9.0	71.3	22.5	111 200 *
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	156 200 *
7.0	78.6	26.2	145 300 *
7.5	77.4	26.1	134 800 *
8.0	76.2	26.0	125 900 *
8.5	75.0	25.8	118 100 *
9.0	73.8	25.7	111 000 *
10.0	71.3	25.3	98 900 *
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	142 500 *
7.5	78.9	29.2	135 100 *
8.0	77.8	29.1	125 700 *
8.5	76.7	29.0	117 800 *
9.0	75.6	28.9	110 800 *
10.0	73.4	28.6	97 800 *
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	135 800 *
8.0	79.0	32.3	125 800 *
8.5	78.1	32.1	117 600 *
9.0	77.1	32.0	109 400 *
10.0	75.1	31.7	95 100 *
11.0	73.2	31.4	83 800 *
12.0	71.2	31.1	74 400 *

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	127 600 *
8.0	80.0	35.4	123 500 *
8.5	79.2	35.3	114 100 *
9.0	78.3	35.2	105 800 *
10.0	76.5	34.9	92 400 *
11.0	74.8	34.6	81 500 *
12.0	73.0	34.3	72 400 *
13.0	71.2	34.0	64 900 *
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	123 900 *
8.0	80.9	38.5	119 400 *
8.5	80.1	38.4	110 600 *
9.0	79.3	38.3	102 800 *
10.0	77.7	38.0	89 900 *
11.0	76.1	37.8	79 400 *
12.0	74.4	37.5	70 700 *
13.0	72.8	37.2	63 400 *
14.0	71.1	36.8	57 200 *
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	111 100 *
8.5	80.9	41.5	106 900 *
9.0	80.1	41.4	100 200 *
10.0	78.6	41.2	87 500 *
11.0	77.2	40.9	77 400 *
12.0	75.7	40.7	69 000 *
13.0	74.2	40.4	61 900 *
14.0	72.6	40.1	55 900 *
15.0	71.1	39.7	50 600 *

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	108 100 *
8.5	81.5	44.6	103 700 *
9.0	80.8	44.5	97 300 *
10.0	79.5	44.3	85 100 *
11.0	78.1	44.1	75 500 *
12.0	76.7	43.8	67 400 *
13.0	75.3	43.6	60 500 *
14.0	73.9	43.3	54 700 *
15.0	72.5	43.0	49 500 *
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	93 100 *
10.0	80.2	47.4	82 800 *
11.0	78.9	47.2	73 500 *
12.0	77.6	47.0	65 600 *
13.0	76.3	46.7	59 000 *
14.0	75.0	46.4	53 300 *
15.0	73.7	46.2	48 300 *
16.0	72.4	45.8	44 000 *
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	80 700 *
11.0	79.6	50.3	71 700 *
12.0	78.4	50.1	64 200 *
13.0	77.2	49.9	57 700 *
14.0	76.0	49.6	52 200 *
15.0	74.8	49.3	47 400 *
16.0	73.5	49.0	43 100 *
18.0	71.1	48.4	36 000 *



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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

**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib

7 m/s with 36.6m thru 51.8m Luffing Jib

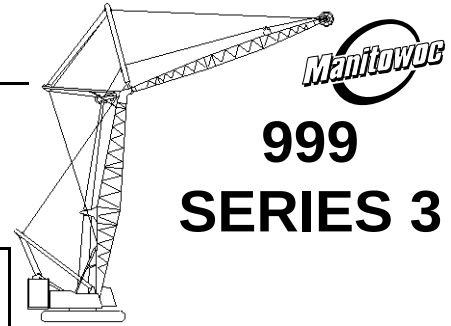
21.3m (70 Ft.) Luffing Jib, Attached at 140 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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	78 900
11.0	80.2	53.4	69 800
12.0	79.1	53.2	62 500
13.0	78.0	53.0	56 300
14.0	76.8	52.8	50 900
15.0	75.7	52.5	46 200
16.0	74.5	52.2	42 000
18.0	72.2	51.6	35 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	79 300 *
10.0	81.8	56.7	76 000
11.0	80.8	56.5	68 100
12.0	79.7	56.3	61 100
13.0	78.6	56.1	55 100
14.0	77.6	55.9	49 800
15.0	76.5	55.6	45 200
16.0	75.4	55.4	41 200
18.0	73.2	54.8	34 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	53 000
14.0	78.2	59.0	49 300
15.0	77.2	58.8	44 800
16.0	76.2	58.5	40 900
18.0	74.2	58.0	34 200
20.0	72.1	57.3	28 800

REFERENCE ONLY



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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	168 600 *
6.5	78.4	23.2	157 300 *
7.0	77.0	23.1	144 700 *
7.5	75.6	23.0	134 600 *
8.0	74.2	22.8	125 800 *
8.5	72.8	22.6	117 800 *
9.0	71.3	22.5	110 800 *
10.0	68.4	22.1	98 600 *
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	156 000 *
7.0	78.6	26.2	145 100 *
7.5	77.4	26.1	134 500 *
8.0	76.2	26.0	125 700 *
8.5	75.0	25.8	117 800 *
9.0	73.8	25.7	110 700 *
10.0	71.3	25.3	98 500 *
11.0	68.8	24.9	87 400 *
12.0	66.2	24.5	77 200 *
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	142 400 *
7.5	78.9	29.2	134 900 *
8.0	77.8	29.1	125 500 *
8.5	76.7	29.0	117 600 *
9.0	75.6	28.9	110 500 *
10.0	73.4	28.6	97 100 *
11.0	71.2	28.2	85 000 *
12.0	69.0	27.8	75 300 *
13.0	66.7	27.4	67 100 *
14.0	64.4	26.9	59 700 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	144 100 *
6.5	81.9	32.5	142 000 *
7.0	80.9	32.5	139 500 *
7.5	80.0	32.4	135 500 *
8.0	79.0	32.3	125 600 *
8.5	78.1	32.1	117 200 *
9.0	77.1	32.0	108 900 *
10.0	75.1	31.7	94 500 *
11.0	73.2	31.4	83 100 *
12.0	71.2	31.1	73 700 *
13.0	69.2	30.7	65 900 *
14.0	67.1	30.3	59 200 *
15.0	65.1	29.8	53 300 *
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	127 400 *
8.0	80.0	35.4	123 100 *
8.5	79.2	35.3	113 700 *
9.0	78.3	35.2	105 400 *
10.0	76.5	34.9	91 900 *
11.0	74.8	34.6	80 900 *
12.0	73.0	34.3	71 800 *
13.0	71.2	34.0	64 200 *
14.0	69.3	33.6	57 800 *
15.0	67.5	33.2	52 200 *
16.0	65.6	32.7	47 200 *
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	123 700 *
8.0	80.9	38.5	119 100 *
8.5	80.1	38.4	110 200 *
9.0	79.3	38.3	102 400 *
10.0	77.7	38.0	89 400 *
11.0	76.1	37.8	78 900 *
12.0	74.4	37.5	70 100 *
13.0	72.8	37.2	62 800 *
14.0	71.1	36.8	56 500 *
15.0	69.5	36.5	51 100 *
16.0	67.8	36.1	46 400 *

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	110 900 *
8.5	80.9	41.5	106 500 *
9.0	80.1	41.4	99 800 *
10.0	78.6	41.2	87 000 *
11.0	77.2	40.9	76 900 *
12.0	75.7	40.7	68 500 *
13.0	74.2	40.4	61 400 *
14.0	72.6	40.1	55 300 *
15.0	71.1	39.7	50 000 *
16.0	69.6	39.4	45 500 *
18.0	66.4	38.5	37 800 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	108 600 *
8.0	82.2	44.6	107 900 *
8.5	81.5	44.6	103 400 *
9.0	80.8	44.5	97 000 *
10.0	79.5	44.3	84 700 *
11.0	78.1	44.1	75 000 *
12.0	76.7	43.8	66 900 *
13.0	75.3	43.6	60 000 *
14.0	73.9	43.3	54 100 *
15.0	72.5	43.0	49 000 *
16.0	71.1	42.6	44 500 *
18.0	68.2	41.8	37 000 *
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	92 800 *
10.0	80.2	47.4	82 400 *
11.0	78.9	47.2	73 000 *
12.0	77.6	47.0	65 200 *
13.0	76.3	46.7	58 500 *
14.0	75.0	46.4	52 800 *
15.0	73.7	46.2	47 800 *
16.0	72.4	45.8	43 400 *
18.0	69.7	45.1	36 100 *
20.0	67.0	44.3	30 200 *



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Liftcrane Boom Capacities With Luffing Jib Attached

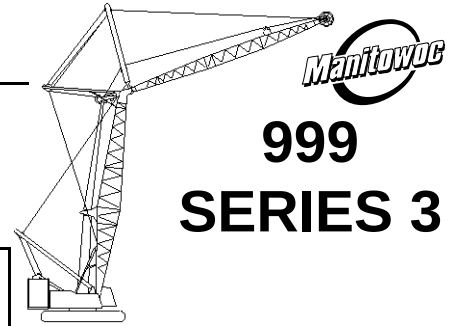
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10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	80 400
11.0	79.6	50.3	71 300
12.0	78.4	50.1	63 700
13.0	77.2	49.9	57 300
14.0	76.0	49.6	51 700
15.0	74.8	49.3	46 800
16.0	73.5	49.0	42 600
18.0	71.1	48.4	35 500
20.0	68.5	47.6	29 700
22.0	66.0	46.7	25 000
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	78 600
11.0	80.2	53.4	69 400
12.0	79.1	53.2	62 100
13.0	78.0	53.0	55 800
14.0	76.8	52.8	50 400
15.0	75.7	52.5	45 700
16.0	74.5	52.2	41 500
18.0	72.2	51.6	34 500
20.0	69.9	50.9	28 900
22.0	67.5	50.1	24 300
24.0	65.1	49.2	20 400

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	75 800
11.0	80.8	56.5	67 800
12.0	79.7	56.3	60 700
13.0	78.6	56.1	54 700
14.0	77.6	55.9	49 400
15.0	76.5	55.6	44 800
16.0	75.4	55.4	40 700
18.0	73.2	54.8	33 900
20.0	71.0	54.1	28 400
22.0	68.8	53.4	23 800
24.0	66.5	52.5	20 000
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 900
14.0	78.2	59.0	48 800
15.0	77.2	58.8	44 400
16.0	76.2	58.5	40 400
18.0	74.2	58.0	33 700
20.0	72.1	57.3	28 300
22.0	70.0	56.6	23 800
24.0	67.8	55.8	20 000
26.0	65.7	54.9	16 800



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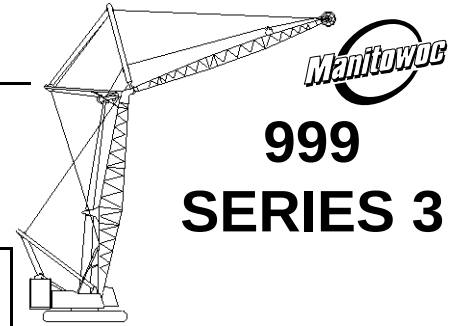
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	167 300 *
6.5	78.4	23.2	156 000 *
7.0	77.0	23.1	143 400 *
7.5	75.6	23.0	133 400 *
8.0	74.2	22.8	124 600 *
8.5	72.8	22.6	116 700 *
9.0	71.3	22.5	109 700 *
10.0	68.4	22.1	97 600 *
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	154 800 *
7.0	78.6	26.2	143 900 *
7.5	77.4	26.1	133 400 *
8.0	76.2	26.0	124 500 *
8.5	75.0	25.8	116 700 *
9.0	73.8	25.7	109 600 *
10.0	71.3	25.3	97 400 *
11.0	68.8	24.9	85 800 *
12.0	66.2	24.5	75 700 *
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	141 200 *
7.5	78.9	29.2	133 800 *
8.0	77.8	29.1	124 400 *
8.5	76.7	29.0	116 500 *
9.0	75.6	28.9	109 400 *
10.0	73.4	28.6	95 300 *
11.0	71.2	28.2	83 500 *
12.0	69.0	27.8	73 800 *
13.0	66.7	27.4	65 800 *
14.0	64.4	26.9	58 400 *

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	134 400 *
8.0	79.0	32.3	124 500 *
8.5	78.1	32.1	115 500 *
9.0	77.1	32.0	107 100 *
10.0	75.1	31.7	93 000 *
11.0	73.2	31.4	81 700 *
12.0	71.2	31.1	72 300 *
13.0	69.2	30.7	64 600 *
14.0	67.1	30.3	58 000 *
15.0	65.1	29.8	52 100 *
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	126 200 *
8.0	80.0	35.4	121 300 *
8.5	79.2	35.3	112 000 *
9.0	78.3	35.2	103 800 *
10.0	76.5	34.9	90 300 *
11.0	74.8	34.6	79 500 *
12.0	73.0	34.3	70 500 *
13.0	71.2	34.0	63 000 *
14.0	69.3	33.6	56 500 *
15.0	67.5	33.2	51 000 *
16.0	65.6	32.7	46 100 *
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	122 600 *
8.0	80.9	38.5	117 400 *
8.5	80.1	38.4	108 600 *
9.0	79.3	38.3	100 800 *
10.0	77.7	38.0	88 000 *
11.0	76.1	37.8	77 500 *
12.0	74.4	37.5	68 900 *
13.0	72.8	37.2	61 500 *
14.0	71.1	36.8	55 400 *
15.0	69.5	36.5	50 000 *
16.0	67.8	36.1	45 300 *

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	110 200 *
8.5	80.9	41.5	105 100 *
9.0	80.1	41.4	98 200 *
10.0	78.6	41.2	85 600 *
11.0	77.2	40.9	75 600 *
12.0	75.7	40.7	67 200 *
13.0	74.2	40.4	60 200 *
14.0	72.6	40.1	54 100 *
15.0	71.1	39.7	48 900 *
16.0	69.6	39.4	44 300 *
18.0	66.4	38.5	36 800 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	108 000 *
8.0	82.2	44.6	107 200 *
8.5	81.5	44.6	101 900 *
9.0	80.8	44.5	95 400 *
10.0	79.5	44.3	83 400 *
11.0	78.1	44.1	73 700 *
12.0	76.7	43.8	65 700 *
13.0	75.3	43.6	58 800 *
14.0	73.9	43.3	53 000 *
15.0	72.5	43.0	47 900 *
16.0	71.1	42.6	43 500 *
18.0	68.2	41.8	36 000 *
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	91 600 *
10.0	80.2	47.4	81 100 *
11.0	78.9	47.2	71 800 *
12.0	77.6	47.0	64 000 *
13.0	76.3	46.7	57 400 *
14.0	75.0	46.4	51 700 *
15.0	73.7	46.2	46 700 *
16.0	72.4	45.8	42 400 *
18.0	69.7	45.1	35 100 *
20.0	67.0	44.3	29 300 *



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	79 000
11.0	79.6	50.3	70 100
12.0	78.4	50.1	62 600
13.0	77.2	49.9	56 100
14.0	76.0	49.6	50 600
15.0	74.8	49.3	45 800
16.0	73.5	49.0	41 600
18.0	71.1	48.4	34 500
20.0	68.5	47.6	28 800
22.0	66.0	46.7	24 100
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	77 200
11.0	80.2	53.4	68 200
12.0	79.1	53.2	61 000
13.0	78.0	53.0	54 700
14.0	76.8	52.8	49 400
15.0	75.7	52.5	44 700
16.0	74.5	52.2	40 500
18.0	72.2	51.6	33 600
20.0	69.9	50.9	28 000
22.0	67.5	50.1	23 400
24.0	65.1	49.2	19 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 500 *
10.0	81.8	56.7	75 000
11.0	80.8	56.5	66 600
12.0	79.7	56.3	59 600
13.0	78.6	56.1	53 600
14.0	77.6	55.9	48 400
15.0	76.5	55.6	43 800
16.0	75.4	55.4	39 800
18.0	73.2	54.8	33 000
20.0	71.0	54.1	27 500
22.0	68.8	53.4	23 000
24.0	66.5	52.5	19 200
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 600
14.0	78.2	59.0	47 800
15.0	77.2	58.8	43 400
16.0	76.2	58.5	39 400
18.0	74.2	58.0	32 800
20.0	72.1	57.3	27 400
22.0	70.0	56.6	23 000
24.0	67.8	55.8	19 200
26.0	65.7	54.9	16 100



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	167 900 *
6.5	78.4	23.2	156 700 *
7.0	77.0	23.1	143 900 *
7.5	75.6	23.0	133 800 *
8.0	74.2	22.8	124 900 *
8.5	72.8	22.6	116 900 *
9.0	71.3	22.5	109 700 *
10.0	68.4	22.1	97 500 *
11.0	65.5	21.6	87 300 *
12.0	62.5	21.1	75 500 *
13.0	59.3	20.5	65 500 *
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	155 400 *
7.0	78.6	26.2	144 400 *
7.5	77.4	26.1	133 800 *
8.0	76.2	26.0	124 900 *
8.5	75.0	25.8	116 900 *
9.0	73.8	25.7	109 800 *
10.0	71.3	25.3	97 400 *
11.0	68.8	24.9	85 600 *
12.0	66.2	24.5	75 400 *
13.0	63.5	24.0	66 100 *
14.0	60.9	23.4	57 900 *
15.0	58.1	22.8	51 100 *
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	141 700 *
7.5	78.9	29.2	134 200 *
8.0	77.8	29.1	124 800 *
8.5	76.7	29.0	116 800 *
9.0	75.6	28.9	109 700 *
10.0	73.4	28.6	95 400 *
11.0	71.2	28.2	83 400 *
12.0	69.0	27.8	73 600 *
13.0	66.7	27.4	65 400 *
14.0	64.4	26.9	58 200 *
15.0	62.0	26.4	51 400 *
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	134 900 *
8.0	79.0	32.3	125 000 *
8.5	78.1	32.1	115 900 *
9.0	77.1	32.0	107 500 *
10.0	75.1	31.7	93 100 *
11.0	73.2	31.4	81 600 *
12.0	71.2	31.1	72 200 *
13.0	69.2	30.7	64 300 *
14.0	67.1	30.3	57 600 *
15.0	65.1	29.8	51 800 *
16.0	62.9	29.3	46 300 *
18.0	58.6	28.1	36 900 *
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	126 700 *
8.0	80.0	35.4	121 900 *
8.5	79.2	35.3	112 500 *
9.0	78.3	35.2	104 100 *
10.0	76.5	34.9	90 500 *
11.0	74.8	34.6	79 500 *
12.0	73.0	34.3	70 400 *
13.0	71.2	34.0	62 800 *
14.0	69.3	33.6	56 300 *
15.0	67.5	33.2	50 700 *
16.0	65.6	32.7	45 800 *
18.0	61.7	31.7	37 100 *
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	123 000 *
8.0	80.9	38.5	118 000 *
8.5	80.1	38.4	109 100 *
9.0	79.3	38.3	101 200 *
10.0	77.7	38.0	88 200 *
11.0	76.1	37.8	77 600 *
12.0	74.4	37.5	68 900 *
13.0	72.8	37.2	61 400 *
14.0	71.1	36.8	55 200 *
15.0	69.5	36.5	49 700 *
16.0	67.8	36.1	45 000 *
18.0	64.3	35.1	37 100 *
20.0	60.7	34.0	30 200 *

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	110 400 *
8.5	80.9	41.5	105 500 *
9.0	80.1	41.4	98 700 *
10.0	78.6	41.2	85 900 *
11.0	77.2	40.9	75 700 *
12.0	75.7	40.7	67 300 *
13.0	74.2	40.4	60 100 *
14.0	72.6	40.1	54 000 *
15.0	71.1	39.7	48 700 *
16.0	69.6	39.4	44 100 *
18.0	66.4	38.5	36 400 *
20.0	63.2	37.5	30 200 *
22.0	59.9	36.4	24 700 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	108 100 *
8.0	82.2	44.6	107 400 *
8.5	81.5	44.6	102 400 *
9.0	80.8	44.5	95 900 *
10.0	79.5	44.3	83 600 *
11.0	78.1	44.1	73 900 *
12.0	76.7	43.8	65 700 *
13.0	75.3	43.6	58 800 *
14.0	73.9	43.3	52 900 *
15.0	72.5	43.0	47 800 *
16.0	71.1	42.6	43 200 *
18.0	68.2	41.8	35 700 *
20.0	65.3	40.9	29 700 *
22.0	62.2	39.9	24 700 *
24.0	59.1	38.7	20 300 *



999 SERIES 3

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

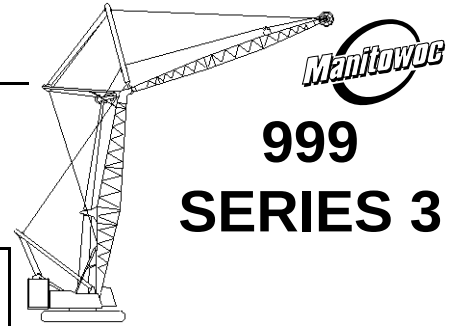
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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
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	92 000
10.0	80.2	47.4	81 400
11.0	78.9	47.2	72 000
12.0	77.6	47.0	64 100
13.0	76.3	46.7	57 400
14.0	75.0	46.4	51 600
15.0	73.7	46.2	46 600
16.0	72.4	45.8	42 200
18.0	69.7	45.1	34 900
20.0	67.0	44.3	29 000
22.0	64.3	43.3	24 200
24.0	61.4	42.3	20 100
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	79 400
11.0	79.6	50.3	70 300
12.0	78.4	50.1	62 700
13.0	77.2	49.9	56 200
14.0	76.0	49.6	50 600
15.0	74.8	49.3	45 700
16.0	73.5	49.0	41 400
18.0	71.1	48.4	34 300
20.0	68.5	47.6	28 500
22.0	66.0	46.7	23 700
24.0	63.4	45.7	19 800
26.0	60.7	44.6	16 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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	77 600
11.0	80.2	53.4	68 500
12.0	79.1	53.2	61 100
13.0	78.0	53.0	54 800
14.0	76.8	52.8	49 400
15.0	75.7	52.5	44 600
16.0	74.5	52.2	40 400
18.0	72.2	51.6	33 400
20.0	69.9	50.9	27 800
22.0	67.5	50.1	23 100
24.0	65.1	49.2	19 200
26.0	62.6	48.1	15 900
28.0	60.0	47.0	13 000
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 600 *
10.0	81.8	56.7	75 200
11.0	80.8	56.5	66 900
12.0	79.7	56.3	59 800
13.0	78.6	56.1	53 600
14.0	77.6	55.9	48 400
15.0	76.5	55.6	43 800
16.0	75.4	55.4	39 700
18.0	73.2	54.8	32 800
20.0	71.0	54.1	27 300
22.0	68.8	53.4	22 700
24.0	66.5	52.5	18 800
26.0	64.2	51.6	15 600
28.0	61.9	50.5	12 800
30.0	59.5	49.4	10 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 600
14.0	78.2	59.0	47 900
15.0	77.2	58.8	43 400
16.0	76.2	58.5	39 400
18.0	74.2	58.0	32 600
20.0	72.1	57.3	27 200
22.0	70.0	56.6	22 700
24.0	67.8	55.8	18 900
26.0	65.7	54.9	15 700
28.0	63.5	54.0	12 900
30.0	61.2	52.9	10 500
32.0	58.9	51.7	8 300



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

European Standards
**10 m/s Maximum Wind with
21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib**

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	166 900 *
6.5	78.4	23.2	155 800 *
7.0	77.0	23.1	143 000 *
7.5	75.6	23.0	132 900 *
8.0	74.2	22.8	124 000 *
8.5	72.8	22.6	116 100 *
9.0	71.3	22.5	108 900 *
10.0	68.4	22.1	96 800 *
11.0	65.5	21.6	86 500
12.0	62.5	21.1	74 400
13.0	59.3	20.5	64 500
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	154 400 *
7.0	78.6	26.2	143 600 *
7.5	77.4	26.1	133 000 *
8.0	76.2	26.0	124 100 *
8.5	75.0	25.8	116 200 *
9.0	73.8	25.7	109 000 *
10.0	71.3	25.3	96 600
11.0	68.8	24.9	84 400
12.0	66.2	24.5	74 300
13.0	63.5	24.0	65 100
14.0	60.9	23.4	57 000
15.0	58.1	22.8	50 200
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	140 800 *
7.5	78.9	29.2	133 500 *
8.0	77.8	29.1	124 000 *
8.5	76.7	29.0	116 100 *
9.0	75.6	28.9	108 800
10.0	73.4	28.6	94 200
11.0	71.2	28.2	82 300
12.0	69.0	27.8	72 600
13.0	66.7	27.4	64 400
14.0	64.4	26.9	57 300
15.0	62.0	26.4	50 500
16.0	59.6	25.8	44 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	142 600 *
6.5	81.9	32.5	140 500 *
7.0	80.9	32.5	138 000 *
7.5	80.0	32.4	134 000 *
8.0	79.0	32.3	124 200
8.5	78.1	32.1	114 700
9.0	77.1	32.0	106 200
10.0	75.1	31.7	92 000
11.0	73.2	31.4	80 600
12.0	71.2	31.1	71 300
13.0	69.2	30.7	63 400
14.0	67.1	30.3	56 800
15.0	65.1	29.8	51 000
16.0	62.9	29.3	45 600
18.0	58.6	28.1	36 200
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	125 800
8.0	80.0	35.4	120 700
8.5	79.2	35.3	111 300
9.0	78.3	35.2	103 000
10.0	76.5	34.9	89 500
11.0	74.8	34.6	78 600
12.0	73.0	34.3	69 500
13.0	71.2	34.0	61 900
14.0	69.3	33.6	55 500
15.0	67.5	33.2	49 900
16.0	65.6	32.7	45 000
18.0	61.7	31.7	36 400
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	122 100
8.0	80.9	38.5	116 800
8.5	80.1	38.4	108 000
9.0	79.3	38.3	100 100
10.0	77.7	38.0	87 200
11.0	76.1	37.8	76 700
12.0	74.4	37.5	68 000
13.0	72.8	37.2	60 600
14.0	71.1	36.8	54 400
15.0	69.5	36.5	49 000
16.0	67.8	36.1	44 200
18.0	64.3	35.1	36 400
20.0	60.7	34.0	29 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	113 800 *
7.5	82.3	41.6	112 800 *
8.0	81.6	41.6	109 800
8.5	80.9	41.5	104 500
9.0	80.1	41.4	97 700
10.0	78.6	41.2	84 900
11.0	77.2	40.9	74 900
12.0	75.7	40.7	66 400
13.0	74.2	40.4	59 300
14.0	72.6	40.1	53 300
15.0	71.1	39.7	48 000
16.0	69.6	39.4	43 400
18.0	66.4	38.5	35 700
20.0	63.2	37.5	29 700
22.0	59.9	36.4	24 100
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	107 500 *
8.0	82.2	44.6	106 700
8.5	81.5	44.6	101 400
9.0	80.8	44.5	94 900
10.0	79.5	44.3	82 700
11.0	78.1	44.1	73 100
12.0	76.7	43.8	64 900
13.0	75.3	43.6	58 000
14.0	73.9	43.3	52 200
15.0	72.5	43.0	47 000
16.0	71.1	42.6	42 500
18.0	68.2	41.8	35 100
20.0	65.3	40.9	29 100
22.0	62.2	39.9	24 200
24.0	59.1	38.7	19 700



999 SERIES 3

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

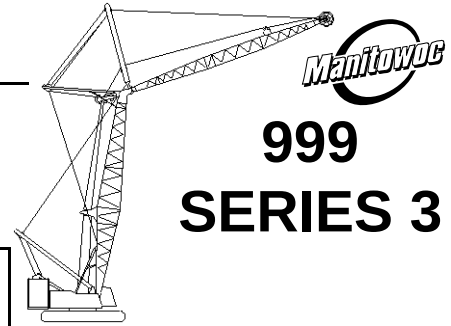
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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
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	91 200
10.0	80.2	47.4	80 500
11.0	78.9	47.2	71 200
12.0	77.6	47.0	63 300
13.0	76.3	46.7	56 600
14.0	75.0	46.4	50 900
15.0	73.7	46.2	46 000
16.0	72.4	45.8	41 600
18.0	69.7	45.1	34 300
20.0	67.0	44.3	28 400
22.0	64.3	43.3	23 600
24.0	61.4	42.3	19 600
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	90 300 *
9.0	82.0	50.7	88 300
10.0	80.8	50.5	78 500
11.0	79.6	50.3	69 500
12.0	78.4	50.1	61 900
13.0	77.2	49.9	55 500
14.0	76.0	49.6	49 900
15.0	74.8	49.3	45 100
16.0	73.5	49.0	40 800
18.0	71.1	48.4	33 600
20.0	68.5	47.6	27 900
22.0	66.0	46.7	23 200
24.0	63.4	45.7	19 300
26.0	60.7	44.6	16 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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	76 800
11.0	80.2	53.4	67 700
12.0	79.1	53.2	60 400
13.0	78.0	53.0	54 100
14.0	76.8	52.8	48 700
15.0	75.7	52.5	43 900
16.0	74.5	52.2	39 800
18.0	72.2	51.6	32 800
20.0	69.9	50.9	27 200
22.0	67.5	50.1	22 600
24.0	65.1	49.2	18 700
26.0	62.6	48.1	15 400
28.0	60.0	47.0	12 600
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 100 *
10.0	81.8	56.7	74 600
11.0	80.8	56.5	66 100
12.0	79.7	56.3	59 000
13.0	78.6	56.1	53 000
14.0	77.6	55.9	47 700
15.0	76.5	55.6	43 100
16.0	75.4	55.4	39 000
18.0	73.2	54.8	32 200
20.0	71.0	54.1	26 700
22.0	68.8	53.4	22 200
24.0	66.5	52.5	18 300
26.0	64.2	51.6	15 100
28.0	61.9	50.5	12 300
30.0	59.5	49.4	9 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	52 700
14.0	78.2	59.0	47 200
15.0	77.2	58.8	42 700
16.0	76.2	58.5	38 800
18.0	74.2	58.0	32 100
20.0	72.1	57.3	26 700
22.0	70.0	56.6	22 200
24.0	67.8	55.8	18 400
26.0	65.7	54.9	15 200
28.0	63.5	54.0	12 500
30.0	61.2	52.9	10 100
32.0	58.9	51.7	7 900



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	165 300 *
6.5	78.4	23.2	154 500 *
7.0	77.0	23.1	141 700 *
7.5	75.6	23.0	131 600 *
8.0	74.2	22.8	122 700 *
8.5	72.8	22.6	114 800 *
9.0	71.3	22.5	107 700 *
10.0	68.4	22.1	95 500 *
11.0	65.5	21.6	84 500
12.0	62.5	21.1	72 600
13.0	59.3	20.5	62 800
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	152 900 *
7.0	78.6	26.2	142 300 *
7.5	77.4	26.1	131 700 *
8.0	76.2	26.0	122 800 *
8.5	75.0	25.8	114 900 *
9.0	73.8	25.7	107 800 *
10.0	71.3	25.3	95 100
11.0	68.8	24.9	82 600
12.0	66.2	24.5	72 500
13.0	63.5	24.0	63 500
14.0	60.9	23.4	55 400
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	139 400 *
7.5	78.9	29.2	132 300 *
8.0	77.8	29.1	122 800 *
8.5	76.7	29.0	114 900 *
9.0	75.6	28.9	107 100
10.0	73.4	28.6	92 400
11.0	71.2	28.2	80 600
12.0	69.0	27.8	70 900
13.0	66.7	27.4	62 800
14.0	64.4	26.9	55 800
15.0	62.0	26.4	49 100
16.0	59.6	25.8	43 400

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	132 400
8.0	79.0	32.3	122 500
8.5	78.1	32.1	112 900
9.0	77.1	32.0	104 400
10.0	75.1	31.7	90 300
11.0	73.2	31.4	79 000
12.0	71.2	31.1	69 600
13.0	69.2	30.7	61 800
14.0	67.1	30.3	55 200
15.0	65.1	29.8	49 600
16.0	62.9	29.3	44 300
18.0	58.6	28.1	35 000
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	124 300
8.0	80.0	35.4	118 700
8.5	79.2	35.3	109 500
9.0	78.3	35.2	101 300
10.0	76.5	34.9	87 800
11.0	74.8	34.6	76 900
12.0	73.0	34.3	68 000
13.0	71.2	34.0	60 400
14.0	69.3	33.6	54 000
15.0	67.5	33.2	48 500
16.0	65.6	32.7	43 600
18.0	61.7	31.7	35 200
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	120 800
8.0	80.9	38.5	115 000
8.5	80.1	38.4	106 300
9.0	79.3	38.3	98 500
10.0	77.7	38.0	85 600
11.0	76.1	37.8	75 100
12.0	74.4	37.5	66 500
13.0	72.8	37.2	59 200
14.0	71.1	36.8	53 000
15.0	69.5	36.5	47 600
16.0	67.8	36.1	42 900
18.0	64.3	35.1	35 100
20.0	60.7	34.0	28 400

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	108 900
8.5	80.9	41.5	102 900
9.0	80.1	41.4	95 900
10.0	78.6	41.2	83 400
11.0	77.2	40.9	73 400
12.0	75.7	40.7	65 000
13.0	74.2	40.4	57 900
14.0	72.6	40.1	51 900
15.0	71.1	39.7	46 700
16.0	69.6	39.4	42 100
18.0	66.4	38.5	34 500
20.0	63.2	37.5	28 400
22.0	59.9	36.4	23 100
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	106 700 *
8.0	82.2	44.6	105 800
8.5	81.5	44.6	99 900
9.0	80.8	44.5	93 200
10.0	79.5	44.3	81 200
11.0	78.1	44.1	71 600
12.0	76.7	43.8	63 500
13.0	75.3	43.6	56 700
14.0	73.9	43.3	50 900
15.0	72.5	43.0	45 800
16.0	71.1	42.6	41 300
18.0	68.2	41.8	33 900
20.0	65.3	40.9	28 000
22.0	62.2	39.9	23 100
24.0	59.1	38.7	18 700



999 SERIES 3

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

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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
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	89 900
10.0	80.2	47.4	79 100
11.0	78.9	47.2	69 800
12.0	77.6	47.0	61 900
13.0	76.3	46.7	55 300
14.0	75.0	46.4	49 600
15.0	73.7	46.2	44 700
16.0	72.4	45.8	40 300
18.0	69.7	45.1	33 100
20.0	67.0	44.3	27 300
22.0	64.3	43.3	22 500
24.0	61.4	42.3	18 500
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	89 400 *
9.0	82.0	50.7	87 000
10.0	80.8	50.5	77 100
11.0	79.6	50.3	68 100
12.0	78.4	50.1	60 600
13.0	77.2	49.9	54 200
14.0	76.0	49.6	48 700
15.0	74.8	49.3	43 800
16.0	73.5	49.0	39 600
18.0	71.1	48.4	32 500
20.0	68.5	47.6	26 800
22.0	66.0	46.7	22 100
24.0	63.4	45.7	18 200
26.0	60.7	44.6	14 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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	75 300
11.0	80.2	53.4	66 300
12.0	79.1	53.2	59 100
13.0	78.0	53.0	52 900
14.0	76.8	52.8	47 500
15.0	75.7	52.5	42 800
16.0	74.5	52.2	38 600
18.0	72.2	51.6	31 700
20.0	69.9	50.9	26 100
22.0	67.5	50.1	21 500
24.0	65.1	49.2	17 700
26.0	62.6	48.1	14 400
28.0	60.0	47.0	11 600
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	77 300 *
10.0	81.8	56.7	73 600
11.0	80.8	56.5	64 800
12.0	79.7	56.3	57 800
13.0	78.6	56.1	51 800
14.0	77.6	55.9	46 500
15.0	76.5	55.6	42 000
16.0	75.4	55.4	37 900
18.0	73.2	54.8	31 100
20.0	71.0	54.1	25 600
22.0	68.8	53.4	21 100
24.0	66.5	52.5	17 400
26.0	64.2	51.6	14 100
28.0	61.9	50.5	11 400
30.0	59.5	49.4	9 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 500 *
13.0	79.2	59.2	51 400
14.0	78.2	59.0	46 000
15.0	77.2	58.8	41 600
16.0	76.2	58.5	37 600
18.0	74.2	58.0	31 000
20.0	72.1	57.3	25 700
22.0	70.0	56.6	21 200
24.0	67.8	55.8	17 400
26.0	65.7	54.9	14 300
28.0	63.5	54.0	11 500
30.0	61.2	52.9	9 100
32.0	58.9	51.7	7 000



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	166 900 *
6.5	78.4	23.2	155 800 *
7.0	77.0	23.1	142 800 *
7.5	75.6	23.0	132 600 *
8.0	74.2	22.8	123 600 *
8.5	72.8	22.6	115 500 *
9.0	71.3	22.5	108 300 *
10.0	68.4	22.1	96 000 *
11.0	65.5	21.6	84 800 *
12.0	62.5	21.1	73 000 *
13.0	59.3	20.5	62 900 *
14.0	56.1	19.8	54 800 *
15.0	52.7	19.0	48 000 *
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	154 400 *
7.0	78.6	26.2	143 500 *
7.5	77.4	26.1	132 800 *
8.0	76.2	26.0	123 800 *
8.5	75.0	25.8	115 800 *
9.0	73.8	25.7	108 600 *
10.0	71.3	25.3	95 800 *
11.0	68.8	24.9	83 100 *
12.0	66.2	24.5	72 800 *
13.0	63.5	24.0	63 900 *
14.0	60.9	23.4	55 600 *
15.0	58.1	22.8	48 800 *
16.0	55.2	22.1	43 000 *
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	140 800 *
7.5	78.9	29.2	133 400 *
8.0	77.8	29.1	123 800 *
8.5	76.7	29.0	115 800 *
9.0	75.6	28.9	108 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	93 300 *
11.0	71.2	28.2	81 200 *
12.0	69.0	27.8	71 300 *
13.0	66.7	27.4	63 100 *
14.0	64.4	26.9	56 100 *
15.0	62.0	26.4	49 300 *
16.0	59.6	25.8	43 500 *
18.0	54.5	24.4	34 300 *
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	133 900 *
8.0	79.0	32.3	124 000 *
8.5	78.1	32.1	114 200 *
9.0	77.1	32.0	105 500 *
10.0	75.1	31.7	91 200 *
11.0	73.2	31.4	79 600 *
12.0	71.2	31.1	70 200 *
13.0	69.2	30.7	62 200 *
14.0	67.1	30.3	55 500 *
15.0	65.1	29.8	49 700 *
16.0	62.9	29.3	44 400 *
18.0	58.6	28.1	35 000 *
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	125 700 *
8.0	80.0	35.4	120 300 *
8.5	79.2	35.3	110 800 *
9.0	78.3	35.2	102 500 *
10.0	76.5	34.9	88 800 *
11.0	74.8	34.6	77 700 *
12.0	73.0	34.3	68 600 *
13.0	71.2	34.0	60 800 *
14.0	69.3	33.6	54 300 *
15.0	67.5	33.2	48 700 *
16.0	65.6	32.7	43 800 *
18.0	61.7	31.7	35 300 *
20.0	57.7	30.4	28 100 *
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	126 000 *
7.0	82.5	38.6	124 800 *
7.5	81.7	38.6	122 000 *
8.0	80.9	38.5	116 600 *
8.5	80.1	38.4	107 600 *
9.0	79.3	38.3	99 700 *
10.0	77.7	38.0	86 600 *
11.0	76.1	37.8	75 900 *
12.0	74.4	37.5	67 100 *
13.0	72.8	37.2	59 700 *
14.0	71.1	36.8	53 400 *
15.0	69.5	36.5	47 900 *
16.0	67.8	36.1	43 100 *
18.0	64.3	35.1	35 200 *
20.0	60.7	34.0	28 400 *
22.0	57.0	32.8	22 800 *
24.0	53.2	31.3	18 300 *
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	109 700 *
8.5	80.9	41.5	104 200 *
9.0	80.1	41.4	97 200 *
10.0	78.6	41.2	84 400 *
11.0	77.2	40.9	74 200 *
12.0	75.7	40.7	65 600 *
13.0	74.2	40.4	58 500 *
14.0	72.6	40.1	52 300 *
15.0	71.1	39.7	47 000 *
16.0	69.6	39.4	42 300 *
18.0	66.4	38.5	34 600 *
20.0	63.2	37.5	28 400 *
22.0	59.9	36.4	23 100 *
24.0	56.4	35.1	18 500 *



999 SERIES 3

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

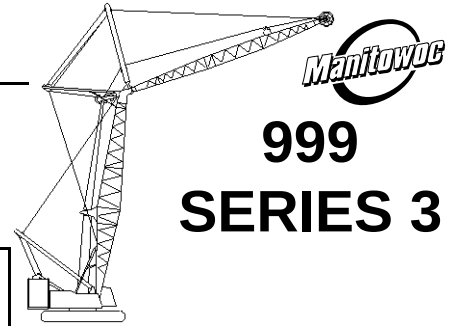
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	106 600
8.5	81.5	44.6	101 200
9.0	80.8	44.5	94 500
10.0	79.5	44.3	82 300
11.0	78.1	44.1	72 400
12.0	76.7	43.8	64 200
13.0	75.3	43.6	57 300
14.0	73.9	43.3	51 300
15.0	72.5	43.0	46 100
16.0	71.1	42.6	41 600
18.0	68.2	41.8	34 000
20.0	65.3	40.9	28 000
22.0	62.2	39.9	23 100
24.0	59.1	38.7	18 700
26.0	55.9	37.4	14 900
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	90 900
10.0	80.2	47.4	80 100
11.0	78.9	47.2	70 600
12.0	77.6	47.0	62 700
13.0	76.3	46.7	55 900
14.0	75.0	46.4	50 100
15.0	73.7	46.2	45 100
16.0	72.4	45.8	40 700
18.0	69.7	45.1	33 300
20.0	67.0	44.3	27 300
22.0	64.3	43.3	22 500
24.0	61.4	42.3	18 400
26.0	58.5	41.1	14 900
28.0	55.5	39.7	11 800
30.0	52.3	38.2	9 100

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	88 000
10.0	80.8	50.5	78 100
11.0	79.6	50.3	69 000
12.0	78.4	50.1	61 300
13.0	77.2	49.9	54 800
14.0	76.0	49.6	49 200
15.0	74.8	49.3	44 300
16.0	73.5	49.0	39 900
18.0	71.1	48.4	32 700
20.0	68.5	47.6	26 900
22.0	66.0	46.7	22 100
24.0	63.4	45.7	18 200
26.0	60.7	44.6	14 800
28.0	57.9	43.4	11 900
30.0	55.1	42.1	9 300
32.0	52.1	40.5	6 900
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	76 400
11.0	80.2	53.4	67 200
12.0	79.1	53.2	59 800
13.0	78.0	53.0	53 500
14.0	76.8	52.8	48 000
15.0	75.7	52.5	43 200
16.0	74.5	52.2	39 000
18.0	72.2	51.6	32 000
20.0	69.9	50.9	26 300
22.0	67.5	50.1	21 600
24.0	65.1	49.2	17 600
26.0	62.6	48.1	14 300
28.0	60.0	47.0	11 400
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	77 900 *
10.0	81.8	56.7	74 300
11.0	80.8	56.5	65 700
12.0	79.7	56.3	58 500
13.0	78.6	56.1	52 400
14.0	77.6	55.9	47 100
15.0	76.5	55.6	42 400
16.0	75.4	55.4	38 300
18.0	73.2	54.8	31 400
20.0	71.0	54.1	25 800
22.0	68.8	53.4	21 200
24.0	66.5	52.5	17 400
26.0	64.2	51.6	14 100
28.0	61.9	50.5	11 300
30.0	59.5	49.4	8 800
32.0	57.0	48.1	6 600
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	52 100
14.0	78.2	59.0	46 600
15.0	77.2	58.8	42 100
16.0	76.2	58.5	38 000
18.0	74.2	58.0	31 300
20.0	72.1	57.3	25 800
22.0	70.0	56.6	21 300
24.0	67.8	55.8	17 500
26.0	65.7	54.9	14 200
28.0	63.5	54.0	11 400
30.0	61.2	52.9	9 000
32.0	58.9	51.7	6 800



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	165 500 *
6.5	78.4	23.2	154 700 *
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	94 800
11.0	65.5	21.6	82 900
12.0	62.5	21.1	71 300
13.0	59.3	20.5	61 300
14.0	56.1	19.8	53 200
15.0	52.7	19.0	46 400
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	153 200 *
7.0	78.6	26.2	142 400 *
7.5	77.4	26.1	131 700 *
8.0	76.2	26.0	122 700 *
8.5	75.0	25.8	114 600 *
9.0	73.8	25.7	107 500 *
10.0	71.3	25.3	94 000
11.0	68.8	24.9	81 300
12.0	66.2	24.5	71 100
13.0	63.5	24.0	62 400
14.0	60.9	23.4	54 100
15.0	58.1	22.8	47 300
16.0	55.2	22.1	41 500
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	139 500 *
7.5	78.9	29.2	132 400 *
8.0	77.8	29.1	122 800 *
8.5	76.7	29.0	114 800 *
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	91 500
11.0	71.2	28.2	79 500
12.0	69.0	27.8	69 700
13.0	66.7	27.4	61 500
14.0	64.4	26.9	54 600
15.0	62.0	26.4	48 000
16.0	59.6	25.8	42 200
18.0	54.5	24.4	32 900
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	132 500
8.0	79.0	32.3	122 200
8.5	78.1	32.1	112 400
9.0	77.1	32.0	103 800
10.0	75.1	31.7	89 600
11.0	73.2	31.4	78 100
12.0	71.2	31.1	68 700
13.0	69.2	30.7	60 700
14.0	67.1	30.3	54 000
15.0	65.1	29.8	48 300
16.0	62.9	29.3	43 000
18.0	58.6	28.1	33 800
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	124 400
8.0	80.0	35.4	118 600
8.5	79.2	35.3	109 200
9.0	78.3	35.2	100 900
10.0	76.5	34.9	87 300
11.0	74.8	34.6	76 200
12.0	73.0	34.3	67 100
13.0	71.2	34.0	59 400
14.0	69.3	33.6	52 900
15.0	67.5	33.2	47 300
16.0	65.6	32.7	42 400
18.0	61.7	31.7	34 000
20.0	57.7	30.4	27 000
22.0	53.5	29.0	21 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	125 000 *
7.0	82.5	38.6	123 700 *
7.5	81.7	38.6	120 800
8.0	80.9	38.5	114 900
8.5	80.1	38.4	106 000
9.0	79.3	38.3	98 200
10.0	77.7	38.0	85 100
11.0	76.1	37.8	74 500
12.0	74.4	37.5	65 700
13.0	72.8	37.2	58 300
14.0	71.1	36.8	52 000
15.0	69.5	36.5	46 600
16.0	67.8	36.1	41 800
18.0	64.3	35.1	33 900
20.0	60.7	34.0	27 400
22.0	57.0	32.8	21 800
24.0	53.2	31.3	17 300
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	108 800
8.5	80.9	41.5	102 800
9.0	80.1	41.4	95 700
10.0	78.6	41.2	83 000
11.0	77.2	40.9	72 800
12.0	75.7	40.7	64 300
13.0	74.2	40.4	57 200
14.0	72.6	40.1	51 100
15.0	71.1	39.7	45 700
16.0	69.6	39.4	41 100
18.0	66.4	38.5	33 400
20.0	63.2	37.5	27 300
22.0	59.9	36.4	22 000
24.0	56.4	35.1	17 500



999 SERIES 3

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

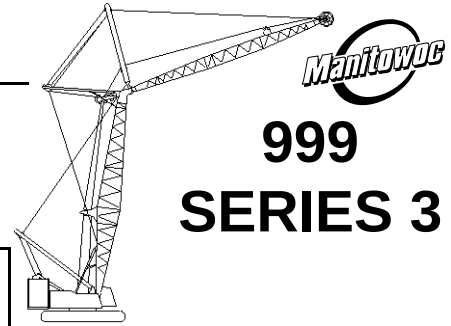
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	105 700
8.5	81.5	44.6	99 700
9.0	80.8	44.5	93 100
10.0	79.5	44.3	80 900
11.0	78.1	44.1	71 100
12.0	76.7	43.8	62 900
13.0	75.3	43.6	56 000
14.0	73.9	43.3	50 100
15.0	72.5	43.0	44 900
16.0	71.1	42.6	40 400
18.0	68.2	41.8	32 900
20.0	65.3	40.9	26 900
22.0	62.2	39.9	21 900
24.0	59.1	38.7	17 700
26.0	55.9	37.4	14 000
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	89 700
10.0	80.2	47.4	78 700
11.0	78.9	47.2	69 300
12.0	77.6	47.0	61 400
13.0	76.3	46.7	54 700
14.0	75.0	46.4	49 000
15.0	73.7	46.2	43 900
16.0	72.4	45.8	39 500
18.0	69.7	45.1	32 200
20.0	67.0	44.3	26 200
22.0	64.3	43.3	21 400
24.0	61.4	42.3	17 400
26.0	58.5	41.1	14 000
28.0	55.5	39.7	10 900
30.0	52.3	38.2	8 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	89 300 *
9.0	82.0	50.7	86 800
10.0	80.8	50.5	76 900
11.0	79.6	50.3	67 800
12.0	78.4	50.1	60 100
13.0	77.2	49.9	53 600
14.0	76.0	49.6	48 000
15.0	74.8	49.3	43 100
16.0	73.5	49.0	38 800
18.0	71.1	48.4	31 700
20.0	68.5	47.6	25 900
22.0	66.0	46.7	21 100
24.0	63.4	45.7	17 100
26.0	60.7	44.6	13 800
28.0	57.9	43.4	10 900
30.0	55.1	42.1	8 400
32.0	52.1	40.5	6 100
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	75 100
11.0	80.2	53.4	66 000
12.0	79.1	53.2	58 600
13.0	78.0	53.0	52 300
14.0	76.8	52.8	46 900
15.0	75.7	52.5	42 100
16.0	74.5	52.2	37 900
18.0	72.2	51.6	30 900
20.0	69.9	50.9	25 200
22.0	67.5	50.1	20 500
24.0	65.1	49.2	16 600
26.0	62.6	48.1	13 300
28.0	60.0	47.0	10 500
30.0	57.4	45.8	8 000
32.0	54.7	44.4	5 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	77 100 *
10.0	81.8	56.7	73 500
11.0	80.8	56.5	64 500
12.0	79.7	56.3	57 400
13.0	78.6	56.1	51 200
14.0	77.6	55.9	46 000
15.0	76.5	55.6	41 400
16.0	75.4	55.4	37 200
18.0	73.2	54.8	30 400
20.0	71.0	54.1	24 800
22.0	68.8	53.4	20 200
24.0	66.5	52.5	16 400
26.0	64.2	51.6	13 100
28.0	61.9	50.5	10 300
30.0	59.5	49.4	7 800
32.0	57.0	48.1	5 700
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	50 900
14.0	78.2	59.0	45 500
15.0	77.2	58.8	41 000
16.0	76.2	58.5	37 000
18.0	74.2	58.0	30 300
20.0	72.1	57.3	24 800
22.0	70.0	56.6	20 300
24.0	67.8	55.8	16 500
26.0	65.7	54.9	13 300
28.0	63.5	54.0	10 500
30.0	61.2	52.9	8 100
32.0	58.9	51.7	5 900



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	164 600 *
6.5	78.4	23.2	153 900 *
7.0	77.0	23.1	140 800 *
7.5	75.6	23.0	130 600 *
8.0	74.2	22.8	121 600 *
8.5	72.8	22.6	113 600 *
9.0	71.3	22.5	106 400 *
10.0	68.4	22.1	93 900
11.0	65.5	21.6	81 500
12.0	62.5	21.1	70 200
13.0	59.3	20.5	60 100
14.0	56.1	19.8	52 000
15.0	52.7	19.0	45 300
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	152 200 *
7.0	78.6	26.2	141 600 *
7.5	77.4	26.1	130 900 *
8.0	76.2	26.0	121 900 *
8.5	75.0	25.8	113 900 *
9.0	73.8	25.7	106 700 *
10.0	71.3	25.3	92 600
11.0	68.8	24.9	80 100
12.0	66.2	24.5	69 900
13.0	63.5	24.0	61 300
14.0	60.9	23.4	53 100
15.0	58.1	22.8	46 300
16.0	55.2	22.1	40 600
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	138 600 *
7.5	78.9	29.2	131 600 *
8.0	77.8	29.1	122 000 *
8.5	76.7	29.0	114 000 *
9.0	75.6	28.9	105 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	90 300
11.0	71.2	28.2	78 400
12.0	69.0	27.8	68 600
13.0	66.7	27.4	60 400
14.0	64.4	26.9	53 600
15.0	62.0	26.4	47 000
16.0	59.6	25.8	41 200
18.0	54.5	24.4	32 100
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	131 400
8.0	79.0	32.3	120 900
8.5	78.1	32.1	111 200
9.0	77.1	32.0	102 700
10.0	75.1	31.7	88 400
11.0	73.2	31.4	77 000
12.0	71.2	31.1	67 600
13.0	69.2	30.7	59 700
14.0	67.1	30.3	53 100
15.0	65.1	29.8	47 300
16.0	62.9	29.3	42 100
18.0	58.6	28.1	33 000
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	123 500
8.0	80.0	35.4	117 400
8.5	79.2	35.3	108 000
9.0	78.3	35.2	99 800
10.0	76.5	34.9	86 200
11.0	74.8	34.6	75 200
12.0	73.0	34.3	66 100
13.0	71.2	34.0	58 500
14.0	69.3	33.6	52 000
15.0	67.5	33.2	46 400
16.0	65.6	32.7	41 600
18.0	61.7	31.7	33 200
20.0	57.7	30.4	26 300
22.0	53.5	29.0	20 700

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	120 000
8.0	80.9	38.5	113 800
8.5	80.1	38.4	104 900
9.0	79.3	38.3	97 100
10.0	77.7	38.0	84 100
11.0	76.1	37.8	73 500
12.0	74.4	37.5	64 800
13.0	72.8	37.2	57 500
14.0	71.1	36.8	51 100
15.0	69.5	36.5	45 700
16.0	67.8	36.1	41 000
18.0	64.3	35.1	33 100
20.0	60.7	34.0	26 600
22.0	57.0	32.8	21 100
24.0	53.2	31.3	16 600
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	108 200
8.5	80.9	41.5	101 800
9.0	80.1	41.4	94 600
10.0	78.6	41.2	82 000
11.0	77.2	40.9	71 900
12.0	75.7	40.7	63 500
13.0	74.2	40.4	56 300
14.0	72.6	40.1	50 200
15.0	71.1	39.7	44 900
16.0	69.6	39.4	40 300
18.0	66.4	38.5	32 700
20.0	63.2	37.5	26 500
22.0	59.9	36.4	21 400
24.0	56.4	35.1	16 900



999 SERIES 3

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

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	105 100
8.5	81.5	44.6	98 800
9.0	80.8	44.5	92 000
10.0	79.5	44.3	80 000
11.0	78.1	44.1	70 200
12.0	76.7	43.8	62 100
13.0	75.3	43.6	55 200
14.0	73.9	43.3	49 300
15.0	72.5	43.0	44 200
16.0	71.1	42.6	39 700
18.0	68.2	41.8	32 200
20.0	65.3	40.9	26 200
22.0	62.2	39.9	21 300
24.0	59.1	38.7	17 100
26.0	55.9	37.4	13 400
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	88 900
10.0	80.2	47.4	77 900
11.0	78.9	47.2	68 500
12.0	77.6	47.0	60 600
13.0	76.3	46.7	54 000
14.0	75.0	46.4	48 200
15.0	73.7	46.2	43 200
16.0	72.4	45.8	38 800
18.0	69.7	45.1	31 400
20.0	67.0	44.3	25 600
22.0	64.3	43.3	20 800
24.0	61.4	42.3	16 700
26.0	58.5	41.1	13 400
28.0	55.5	39.7	10 300
30.0	52.3	38.2	7 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	88 700 *
9.0	82.0	50.7	86 100
10.0	80.8	50.5	76 000
11.0	79.6	50.3	66 900
12.0	78.4	50.1	59 300
13.0	77.2	49.9	52 900
14.0	76.0	49.6	47 300
15.0	74.8	49.3	42 400
16.0	73.5	49.0	38 200
18.0	71.1	48.4	31 000
20.0	68.5	47.6	25 200
22.0	66.0	46.7	20 500
24.0	63.4	45.7	16 600
26.0	60.7	44.6	13 200
28.0	57.9	43.4	10 300
30.0	55.1	42.1	7 800
32.0	52.1	40.5	5 600
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	74 200
11.0	80.2	53.4	65 200
12.0	79.1	53.2	57 900
13.0	78.0	53.0	51 600
14.0	76.8	52.8	46 200
15.0	75.7	52.5	41 400
16.0	74.5	52.2	37 200
18.0	72.2	51.6	30 300
20.0	69.9	50.9	24 600
22.0	67.5	50.1	19 900
24.0	65.1	49.2	16 000
26.0	62.6	48.1	12 700
28.0	60.0	47.0	9 900
30.0	57.4	45.8	7 500
32.0	54.7	44.4	5 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	76 600 *
10.0	81.8	56.7	72 600
11.0	80.8	56.5	63 700
12.0	79.7	56.3	56 600
13.0	78.6	56.1	50 600
14.0	77.6	55.9	45 300
15.0	76.5	55.6	40 700
16.0	75.4	55.4	36 600
18.0	73.2	54.8	29 700
20.0	71.0	54.1	24 200
22.0	68.8	53.4	19 600
24.0	66.5	52.5	15 800
26.0	64.2	51.6	12 600
28.0	61.9	50.5	9 800
30.0	59.5	49.4	7 300
32.0	57.0	48.1	5 200
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	50 100
14.0	78.2	59.0	44 900
15.0	77.2	58.8	40 400
16.0	76.2	58.5	36 400
18.0	74.2	58.0	29 700
20.0	72.1	57.3	24 200
22.0	70.0	56.6	19 800
24.0	67.8	55.8	16 000
26.0	65.7	54.9	12 800
28.0	63.5	54.0	10 000
30.0	61.2	52.9	7 600
32.0	58.9	51.7	5 400



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

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

**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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	163 100 *
6.5	78.4	23.2	152 700 *
7.0	77.0	23.1	139 500 *
7.5	75.6	23.0	129 400 *
8.0	74.2	22.8	120 400 *
8.5	72.8	22.6	112 300 *
9.0	71.3	22.5	105 100 *
10.0	68.4	22.1	92 400
11.0	65.5	21.6	79 600
12.0	62.5	21.1	68 400
13.0	59.3	20.5	58 400
14.0	56.1	19.8	50 400
15.0	52.7	19.0	43 700
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	150 800 *
7.0	78.6	26.2	140 500 *
7.5	77.4	26.1	129 700 *
8.0	76.2	26.0	120 700 *
8.5	75.0	25.8	112 700 *
9.0	73.8	25.7	105 600 *
10.0	71.3	25.3	90 600
11.0	68.8	24.9	78 200
12.0	66.2	24.5	68 100
13.0	63.5	24.0	59 600
14.0	60.9	23.4	51 500
15.0	58.1	22.8	44 800
16.0	55.2	22.1	39 100
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	137 200 *
7.5	78.9	29.2	130 500 *
8.0	77.8	29.1	120 900
8.5	76.7	29.0	112 200
9.0	75.6	28.9	103 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	88 500
11.0	71.2	28.2	76 600
12.0	69.0	27.8	66 900
13.0	66.7	27.4	58 800
14.0	64.4	26.9	51 900
15.0	62.0	26.4	45 600
16.0	59.6	25.8	39 800
18.0	54.5	24.4	30 700
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	129 900
8.0	79.0	32.3	119 100
8.5	78.1	32.1	109 400
9.0	77.1	32.0	100 900
10.0	75.1	31.7	86 700
11.0	73.2	31.4	75 400
12.0	71.2	31.1	66 000
13.0	69.2	30.7	58 200
14.0	67.1	30.3	51 500
15.0	65.1	29.8	45 800
16.0	62.9	29.3	40 700
18.0	58.6	28.1	31 700
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	122 100
8.0	80.0	35.4	115 600
8.5	79.2	35.3	106 300
9.0	78.3	35.2	98 100
10.0	76.5	34.9	84 600
11.0	74.8	34.6	73 600
12.0	73.0	34.3	64 600
13.0	71.2	34.0	57 000
14.0	69.3	33.6	50 600
15.0	67.5	33.2	45 000
16.0	65.6	32.7	40 200
18.0	61.7	31.7	32 000
20.0	57.7	30.4	25 000
22.0	53.5	29.0	19 500

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	118 800
8.0	80.9	38.5	112 100
8.5	80.1	38.4	103 300
9.0	79.3	38.3	95 500
10.0	77.7	38.0	82 600
11.0	76.1	37.8	72 000
12.0	74.4	37.5	63 400
13.0	72.8	37.2	56 000
14.0	71.1	36.8	49 800
15.0	69.5	36.5	44 400
16.0	67.8	36.1	39 700
18.0	64.3	35.1	31 900
20.0	60.7	34.0	25 500
22.0	57.0	32.8	20 000
24.0	53.2	31.3	15 500
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	107 300
8.5	80.9	41.5	100 300
9.0	80.1	41.4	93 100
10.0	78.6	41.2	80 500
11.0	77.2	40.9	70 500
12.0	75.7	40.7	62 000
13.0	74.2	40.4	55 000
14.0	72.6	40.1	48 900
15.0	71.1	39.7	43 600
16.0	69.6	39.4	39 000
18.0	66.4	38.5	31 400
20.0	63.2	37.5	25 300
22.0	59.9	36.4	20 300
24.0	56.4	35.1	15 800


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SERIES 3

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
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib
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	104 100
8.5	81.5	44.6	97 300
9.0	80.8	44.5	90 500
10.0	79.5	44.3	78 500
11.0	78.1	44.1	68 800
12.0	76.7	43.8	60 700
13.0	75.3	43.6	53 900
14.0	73.9	43.3	48 000
15.0	72.5	43.0	42 900
16.0	71.1	42.6	38 400
18.0	68.2	41.8	31 000
20.0	65.3	40.9	25 000
22.0	62.2	39.9	20 100
24.0	59.1	38.7	16 000
26.0	55.9	37.4	12 400
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	87 700
10.0	80.2	47.4	76 500
11.0	78.9	47.2	67 200
12.0	77.6	47.0	59 300
13.0	76.3	46.7	52 600
14.0	75.0	46.4	46 900
15.0	73.7	46.2	42 000
16.0	72.4	45.8	37 600
18.0	69.7	45.1	30 300
20.0	67.0	44.3	24 400
22.0	64.3	43.3	19 600
24.0	61.4	42.3	15 600
26.0	58.5	41.1	12 300
28.0	55.5	39.7	9 300
30.0	52.3	38.2	6 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	87 900 *
9.0	82.0	50.7	84 800
10.0	80.8	50.5	74 700
11.0	79.6	50.3	65 600
12.0	78.4	50.1	58 100
13.0	77.2	49.9	51 600
14.0	76.0	49.6	46 100
15.0	74.8	49.3	41 200
16.0	73.5	49.0	37 000
18.0	71.1	48.4	29 800
20.0	68.5	47.6	24 100
22.0	66.0	46.7	19 400
24.0	63.4	45.7	15 500
26.0	60.7	44.6	12 100
28.0	57.9	43.4	9 200
30.0	55.1	42.1	6 800
32.0	52.1	40.5	4 600
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	72 900
11.0	80.2	53.4	64 000
12.0	79.1	53.2	56 600
13.0	78.0	53.0	50 400
14.0	76.8	52.8	45 000
15.0	75.7	52.5	40 300
16.0	74.5	52.2	36 100
18.0	72.2	51.6	29 100
20.0	69.9	50.9	23 500
22.0	67.5	50.1	18 900
24.0	65.1	49.2	15 000
26.0	62.6	48.1	11 700
28.0	60.0	47.0	8 900
30.0	57.4	45.8	6 500

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	71 300
11.0	80.8	56.5	62 500
12.0	79.7	56.3	55 400
13.0	78.6	56.1	49 400
14.0	77.6	55.9	44 100
15.0	76.5	55.6	39 500
16.0	75.4	55.4	35 500
18.0	73.2	54.8	28 700
20.0	71.0	54.1	23 200
22.0	68.8	53.4	18 600
24.0	66.5	52.5	14 800
26.0	64.2	51.6	11 600
28.0	61.9	50.5	8 800
30.0	59.5	49.4	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	48 900
14.0	78.2	59.0	43 700
15.0	77.2	58.8	39 300
16.0	76.2	58.5	35 300
18.0	74.2	58.0	28 600
20.0	72.1	57.3	23 200
22.0	70.0	56.6	18 700
24.0	67.8	55.8	15 000
26.0	65.7	54.9	11 800
28.0	63.5	54.0	9 000
30.0	61.2	52.9	6 600
32.0	58.9	51.7	4 500

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
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 51.8m Luffing Jib

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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	161 900 *
6.5	78.4	23.2	151 600 *
7.0	77.0	23.1	138 300 *
7.5	75.6	23.0	128 200 *
8.0	74.2	22.8	119 200 *
8.5	72.8	22.6	111 200 *
9.0	71.3	22.5	104 100 *
10.0	68.4	22.1	90 800
11.0	65.5	21.6	77 700
12.0	62.5	21.1	66 700
13.0	59.3	20.5	56 800
14.0	56.1	19.8	48 800
15.0	52.7	19.0	42 100
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	149 600 *
7.0	78.6	26.2	139 400 *
7.5	77.4	26.1	128 600 *
8.0	76.2	26.0	119 600 *
8.5	75.0	25.8	111 700 *
9.0	73.8	25.7	104 000
10.0	71.3	25.3	88 800
11.0	68.8	24.9	76 500
12.0	66.2	24.5	66 400
13.0	63.5	24.0	58 000
14.0	60.9	23.4	50 000
15.0	58.1	22.8	43 400
16.0	55.2	22.1	37 700
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	136 200 *
7.5	78.9	29.2	129 500 *
8.0	77.8	29.1	119 800
8.5	76.7	29.0	110 500
9.0	75.6	28.9	101 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	86 900
11.0	71.2	28.2	75 000
12.0	69.0	27.8	65 400
13.0	66.7	27.4	57 300
14.0	64.4	26.9	50 500
15.0	62.0	26.4	44 300
16.0	59.6	25.8	38 600
18.0	54.5	24.4	29 500
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	128 700
8.0	79.0	32.3	117 300
8.5	78.1	32.1	107 700
9.0	77.1	32.0	99 300
10.0	75.1	31.7	85 200
11.0	73.2	31.4	73 900
12.0	71.2	31.1	64 500
13.0	69.2	30.7	56 700
14.0	67.1	30.3	50 200
15.0	65.1	29.8	44 500
16.0	62.9	29.3	39 400
18.0	58.6	28.1	30 500
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	121 000
8.0	80.0	35.4	113 900
8.5	79.2	35.3	104 700
9.0	78.3	35.2	96 600
10.0	76.5	34.9	83 100
11.0	74.8	34.6	72 200
12.0	73.0	34.3	63 200
13.0	71.2	34.0	55 700
14.0	69.3	33.6	49 200
15.0	67.5	33.2	43 700
16.0	65.6	32.7	38 900
18.0	61.7	31.7	30 800
20.0	57.7	30.4	24 000
22.0	53.5	29.0	18 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	122 200 *
7.0	82.5	38.6	120 900 *
7.5	81.7	38.6	117 700
8.0	80.9	38.5	110 500
8.5	80.1	38.4	101 800
9.0	79.3	38.3	94 000
10.0	77.7	38.0	81 200
11.0	76.1	37.8	70 700
12.0	74.4	37.5	62 000
13.0	72.8	37.2	54 700
14.0	71.1	36.8	48 500
15.0	69.5	36.5	43 100
16.0	67.8	36.1	38 400
18.0	64.3	35.1	30 700
20.0	60.7	34.0	24 500
22.0	57.0	32.8	19 000
24.0	53.2	31.3	14 500
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	106 600
8.5	80.9	41.5	98 900
9.0	80.1	41.4	91 600
10.0	78.6	41.2	79 200
11.0	77.2	40.9	69 100
12.0	75.7	40.7	60 800
13.0	74.2	40.4	53 700
14.0	72.6	40.1	47 700
15.0	71.1	39.7	42 500
16.0	69.6	39.4	37 900
18.0	66.4	38.5	30 300
20.0	63.2	37.5	24 200
22.0	59.9	36.4	19 300
24.0	56.4	35.1	14 900



999 SERIES 3

Boom No. 82 or 22EL

Luffing Jib No. 135

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib

7 m/s with 36.6m thru 51.8m Luffing Jib

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	103 300
8.5	81.5	44.6	96 000
9.0	80.8	44.5	89 100
10.0	79.5	44.3	77 300
11.0	78.1	44.1	67 600
12.0	76.7	43.8	59 500
13.0	75.3	43.6	52 700
14.0	73.9	43.3	46 900
15.0	72.5	43.0	41 800
16.0	71.1	42.6	37 300
18.0	68.2	41.8	29 900
20.0	65.3	40.9	24 000
22.0	62.2	39.9	19 100
24.0	59.1	38.7	15 100
26.0	55.9	37.4	11 500
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	86 600
10.0	80.2	47.4	75 200
11.0	78.9	47.2	65 900
12.0	77.6	47.0	58 100
13.0	76.3	46.7	51 500
14.0	75.0	46.4	45 800
15.0	73.7	46.2	40 900
16.0	72.4	45.8	36 500
18.0	69.7	45.1	29 300
20.0	67.0	44.3	23 400
22.0	64.3	43.3	18 700
24.0	61.4	42.3	14 700
26.0	58.5	41.1	11 300
28.0	55.5	39.7	8 500
30.0	52.3	38.2	5 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	87 300 *
9.0	82.0	50.7	83 700
10.0	80.8	50.5	73 500
11.0	79.6	50.3	64 500
12.0	78.4	50.1	57 000
13.0	77.2	49.9	50 500
14.0	76.0	49.6	45 000
15.0	74.8	49.3	40 200
16.0	73.5	49.0	36 000
18.0	71.1	48.4	28 900
20.0	68.5	47.6	23 100
22.0	66.0	46.7	18 400
24.0	63.4	45.7	14 500
26.0	60.7	44.6	11 200
28.0	57.9	43.4	8 400
30.0	55.1	42.1	5 900
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	71 600
11.0	80.2	53.4	62 800
12.0	79.1	53.2	55 600
13.0	78.0	53.0	49 300
14.0	76.8	52.8	44 000
15.0	75.7	52.5	39 300
16.0	74.5	52.2	35 100
18.0	72.2	51.6	28 200
20.0	69.9	50.9	22 600
22.0	67.5	50.1	18 000
24.0	65.1	49.2	14 100
26.0	62.6	48.1	10 900
28.0	60.0	47.0	8 000
30.0	57.4	45.8	5 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	75 200 *
10.0	81.8	56.7	70 100
11.0	80.8	56.5	61 400
12.0	79.7	56.3	54 400
13.0	78.6	56.1	48 400
14.0	77.6	55.9	43 100
15.0	76.5	55.6	38 600
16.0	75.4	55.4	34 500
18.0	73.2	54.8	27 700
20.0	71.0	54.1	22 200
22.0	68.8	53.4	17 700
24.0	66.5	52.5	13 900
26.0	64.2	51.6	10 700
28.0	61.9	50.5	8 000
30.0	59.5	49.4	5 500
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	52 800
13.0	79.2	59.2	47 800
14.0	78.2	59.0	42 800
15.0	77.2	58.8	38 300
16.0	76.2	58.5	34 400
18.0	74.2	58.0	27 700
20.0	72.1	57.3	22 300
22.0	70.0	56.6	17 900
24.0	67.8	55.8	14 100
26.0	65.7	54.9	11 000
28.0	63.5	54.0	8 200
30.0	61.2	52.9	5 800