



Liftcrane Boom Capacities With Luffing Jib Attached

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

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. *Travel 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.

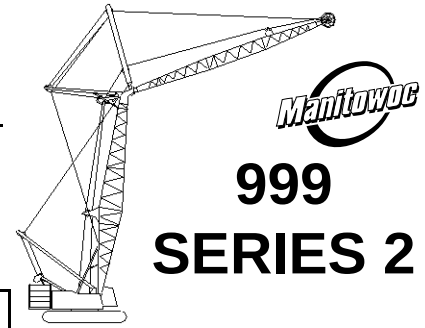
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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, 83 730 kg crane counterweight and two 9 980 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. 8239-AM** for luffing jib capacities.

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



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19 960 kg Carbody Counterweight
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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**

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	177 500 *
5.0	82.5	23.5	173 300 *
5.5	81.1	23.4	157 000 *
6.0	79.7	23.3	143 300 *
6.5	78.4	23.2	131 600 *
7.0	77.0	23.1	121 400 *
7.5	75.6	23.0	112 500 *
8.0	74.2	22.8	104 600 *
8.5	72.8	22.6	97 600 *
9.0	71.3	22.5	91 300 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	166 700 *
5.5	82.2	26.5	156 800 *
6.0	81.0	26.4	143 100 *
6.5	79.8	26.3	131 400 *
7.0	78.6	26.2	121 200 *
7.5	77.4	26.1	112 300 *
8.0	76.2	26.0	104 500 *
8.5	75.0	25.8	97 400 *
9.0	73.8	25.7	91 200 *
10.0	71.3	25.3	79 900
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	148 500 *
6.0	82.0	29.5	143 100 *
6.5	81.0	29.4	131 300 *
7.0	79.9	29.3	121 100 *
7.5	78.9	29.2	112 200 *
8.0	77.8	29.1	104 400
8.5	76.7	29.0	97 200
9.0	75.6	28.9	90 000
10.0	73.4	28.6	77 500
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	140 700 *
6.5	81.9	32.5	131 600 *
7.0	80.9	32.5	121 000
7.5	80.0	32.4	111 500
8.0	79.0	32.3	102 100
8.5	78.1	32.1	94 200
9.0	77.1	32.0	87 200
10.0	75.1	31.7	75 400
11.0	73.2	31.4	66 000
12.0	71.2	31.1	58 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	124 000
7.0	81.8	35.5	117 700
7.5	80.9	35.5	107 400
8.0	80.0	35.4	98 700
8.5	79.2	35.3	91 100
9.0	78.3	35.2	84 500
10.0	76.5	34.9	73 300
11.0	74.8	34.6	64 200
12.0	73.0	34.3	56 700
13.0	71.2	34.0	50 500
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	119 200
7.0	82.5	38.6	113 200
7.5	81.7	38.6	103 500
8.0	80.9	38.5	95 400
8.5	80.1	38.4	88 200
9.0	79.3	38.3	81 800
10.0	77.7	38.0	71 100
11.0	76.1	37.8	62 400
12.0	74.4	37.5	55 200
13.0	72.8	37.2	49 100
14.0	71.1	36.8	44 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	103 200
7.5	82.3	41.6	100 300
8.0	81.6	41.6	92 300
8.5	80.9	41.5	85 500
9.0	80.1	41.4	79 500
10.0	78.6	41.2	69 200
11.0	77.2	40.9	60 900
12.0	75.7	40.7	53 900
13.0	74.2	40.4	48 000
14.0	72.6	40.1	43 000
15.0	71.1	39.7	38 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	90 400
8.0	82.2	44.6	89 500
8.5	81.5	44.6	83 000
9.0	80.8	44.5	77 100
10.0	79.5	44.3	67 300
11.0	78.1	44.1	59 300
12.0	76.7	43.8	52 600
13.0	75.3	43.6	46 900
14.0	73.9	43.3	42 000
15.0	72.5	43.0	37 800
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	87 600
8.0	82.7	47.7	86 700
8.5	82.1	47.6	80 500
9.0	81.4	47.6	74 900
10.0	80.2	47.4	65 500
11.0	78.9	47.2	57 700
12.0	77.6	47.0	51 200
13.0	76.3	46.7	45 700
14.0	75.0	46.4	41 000
15.0	73.7	46.2	36 900
16.0	72.4	45.8	33 200
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	77 500
9.0	82.0	50.7	72 700
10.0	80.8	50.5	63 600
11.0	79.6	50.3	56 100
12.0	78.4	50.1	49 800
13.0	77.2	49.9	44 500
14.0	76.0	49.6	39 900
15.0	74.8	49.3	35 800
16.0	73.5	49.0	32 300
18.0	71.1	48.4	26 400



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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

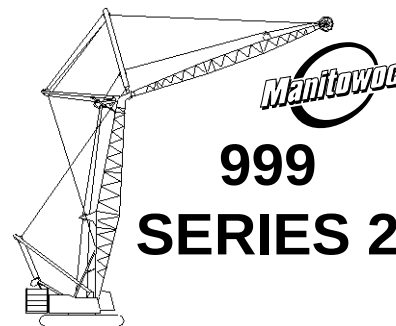
21.3m (70 Ft.) Luffing Jib, Attached at 140 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	75 200
9.0	82.5	53.7	70 600
10.0	81.3	53.6	61 900
11.0	80.2	53.4	54 700
12.0	79.1	53.2	48 600
13.0	78.0	53.0	43 400
14.0	76.8	52.8	39 000
15.0	75.7	52.5	35 100
16.0	74.5	52.2	31 600
18.0	72.2	51.6	25 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	67 100
10.0	81.8	56.7	60 100
11.0	80.8	56.5	53 100
12.0	79.7	56.3	47 300
13.0	78.6	56.1	42 200
14.0	77.6	55.9	37 900
15.0	76.5	55.6	34 100
16.0	75.4	55.4	30 700
18.0	73.2	54.8	25 100

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	52 400
12.0	80.3	59.4	46 600
13.0	79.2	59.2	41 700
14.0	78.2	59.0	37 500
15.0	77.2	58.8	33 800
16.0	76.2	58.5	30 400
18.0	74.2	58.0	24 900
20.0	72.1	57.3	20 500

REFERENCE ONLY



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

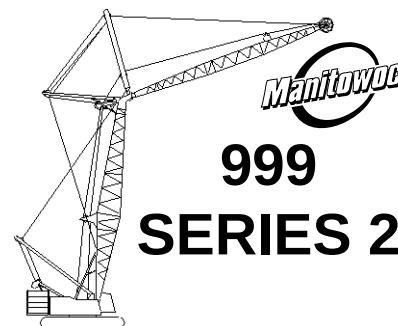
7 m/s with 36.6m thru 51.8m Luffing Jib

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
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	177 600 *
5.0	82.5	23.5	173 300 *
5.5	81.1	23.4	156 900 *
6.0	79.7	23.3	143 100 *
6.5	78.4	23.2	131 300 *
7.0	77.0	23.1	121 100 *
7.5	75.6	23.0	112 100 *
8.0	74.2	22.8	104 200 *
8.5	72.8	22.6	97 100 *
9.0	71.3	22.5	90 800 *
10.0	68.4	22.1	79 900 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	166 800 *
5.5	82.2	26.5	156 800 *
6.0	81.0	26.4	143 000 *
6.5	79.8	26.3	131 200 *
7.0	78.6	26.2	121 000 *
7.5	77.4	26.1	112 000 *
8.0	76.2	26.0	104 100 *
8.5	75.0	25.8	97 000 *
9.0	73.8	25.7	90 700 *
10.0	71.3	25.3	79 200 *
11.0	68.8	24.9	68 700 *
12.0	66.2	24.5	60 300 *
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	148 500 *
6.0	82.0	29.5	143 100 *
6.5	81.0	29.4	131 200 *
7.0	79.9	29.3	120 900 *
7.5	78.9	29.2	112 000 *
8.0	77.8	29.1	104 000 *
8.5	76.7	29.0	96 600 *
9.0	75.6	28.9	89 400 *
10.0	73.4	28.6	76 900 *
11.0	71.2	28.2	67 000 *
12.0	69.0	27.8	58 900 *
13.0	66.7	27.4	52 100 *
14.0	64.4	26.9	46 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	140 700 *
6.5	81.9	32.5	131 500 *
7.0	80.9	32.5	120 800 *
7.5	80.0	32.4	111 100 *
8.0	79.0	32.3	101 700 *
8.5	78.1	32.1	93 700 *
9.0	77.1	32.0	86 600 *
10.0	75.1	31.7	74 800 *
11.0	73.2	31.4	65 400 *
12.0	71.2	31.1	57 600 *
13.0	69.2	30.7	51 000 *
14.0	67.1	30.3	45 500 *
15.0	65.1	29.8	40 800 *
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	123 700 *
7.0	81.8	35.5	117 400 *
7.5	80.9	35.5	107 000 *
8.0	80.0	35.4	98 300 *
8.5	79.2	35.3	90 700 *
9.0	78.3	35.2	84 000 *
10.0	76.5	34.9	72 800 *
11.0	74.8	34.6	63 600 *
12.0	73.0	34.3	56 100 *
13.0	71.2	34.0	49 800 *
14.0	69.3	33.6	44 400 *
15.0	67.5	33.2	39 800 *
16.0	65.6	32.7	35 700 *
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	118 900 *
7.0	82.5	38.6	113 000 *
7.5	81.7	38.6	103 200 *
8.0	80.9	38.5	95 000 *
8.5	80.1	38.4	87 800 *
9.0	79.3	38.3	81 400 *
10.0	77.7	38.0	70 700 *
11.0	76.1	37.8	61 900 *
12.0	74.4	37.5	54 600 *
13.0	72.8	37.2	48 500 *
14.0	71.1	36.8	43 300 *
15.0	69.5	36.5	38 800 *
16.0	67.8	36.1	34 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	103 000 *
7.5	82.3	41.6	100 000 *
8.0	81.6	41.6	92 100 *
8.5	80.9	41.5	85 200 *
9.0	80.1	41.4	79 100 *
10.0	78.6	41.2	68 800 *
11.0	77.2	40.9	60 400 *
12.0	75.7	40.7	53 400 *
13.0	74.2	40.4	47 500 *
14.0	72.6	40.1	42 400 *
15.0	71.1	39.7	38 100 *
16.0	69.6	39.4	34 200 *
18.0	66.4	38.5	27 900 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	90 200 *
8.0	82.2	44.6	89 200 *
8.5	81.5	44.6	82 600 *
9.0	80.8	44.5	76 800 *
10.0	79.5	44.3	67 000 *
11.0	78.1	44.1	58 900 *
12.0	76.7	43.8	52 100 *
13.0	75.3	43.6	46 400 *
14.0	73.9	43.3	41 500 *
15.0	72.5	43.0	37 200 *
16.0	71.1	42.6	33 500 *
18.0	68.2	41.8	27 300 *
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	87 400 *
8.0	82.7	47.7	86 400 *
8.5	82.1	47.6	80 200 *
9.0	81.4	47.6	74 600 *
10.0	80.2	47.4	65 100 *
11.0	78.9	47.2	57 300 *
12.0	77.6	47.0	50 800 *
13.0	76.3	46.7	45 200 *
14.0	75.0	46.4	40 500 *
15.0	73.7	46.2	36 300 *
16.0	72.4	45.8	32 700 *
18.0	69.7	45.1	26 600 *
20.0	67.0	44.3	21 700 *



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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

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	77 200
9.0	82.0	50.7	72 400
10.0	80.8	50.5	63 200
11.0	79.6	50.3	55 700
12.0	78.4	50.1	49 400
13.0	77.2	49.9	44 000
14.0	76.0	49.6	39 400
15.0	74.8	49.3	35 300
16.0	73.5	49.0	31 800
18.0	71.1	48.4	25 800
20.0	68.5	47.6	21 000
22.0	66.0	46.7	17 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	75 000
9.0	82.5	53.7	70 400
10.0	81.3	53.6	61 600
11.0	80.2	53.4	54 300
12.0	79.1	53.2	48 200
13.0	78.0	53.0	43 000
14.0	76.8	52.8	38 500
15.0	75.7	52.5	34 600
16.0	74.5	52.2	31 100
18.0	72.2	51.6	25 300
20.0	69.9	50.9	20 600
22.0	67.5	50.1	16 700
24.0	65.1	49.2	13 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	66 900
10.0	81.8	56.7	59 800
11.0	80.8	56.5	52 800
12.0	79.7	56.3	46 900
13.0	78.6	56.1	41 800
14.0	77.6	55.9	37 400
15.0	76.5	55.6	33 600
16.0	75.4	55.4	30 200
18.0	73.2	54.8	24 500
20.0	71.0	54.1	19 900
22.0	68.8	53.4	16 100
24.0	66.5	52.5	13 000
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	52 000
12.0	80.3	59.4	46 200
13.0	79.2	59.2	41 300
14.0	78.2	59.0	37 000
15.0	77.2	58.8	33 300
16.0	76.2	58.5	30 000
18.0	74.2	58.0	24 500
20.0	72.1	57.3	19 900
22.0	70.0	56.6	16 200
24.0	67.8	55.8	13 100
26.0	65.7	54.9	10 400



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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	175 700 *
5.0	82.5	23.5	171 400 *
5.5	81.1	23.4	155 100 *
6.0	79.7	23.3	141 400 *
6.5	78.4	23.2	129 600 *
7.0	77.0	23.1	119 400 *
7.5	75.6	23.0	110 500 *
8.0	74.2	22.8	102 600 *
8.5	72.8	22.6	95 600 *
9.0	71.3	22.5	89 300 *
10.0	68.4	22.1	78 500 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	164 900 *
5.5	82.2	26.5	154 900 *
6.0	81.0	26.4	141 300 *
6.5	79.8	26.3	129 500 *
7.0	78.6	26.2	119 300 *
7.5	77.4	26.1	110 400 *
8.0	76.2	26.0	102 600 *
8.5	75.0	25.8	95 600 *
9.0	73.8	25.7	89 300 *
10.0	71.3	25.3	77 400 *
11.0	68.8	24.9	67 100 *
12.0	66.2	24.5	58 800 *
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	146 700 *
6.0	82.0	29.5	141 400 *
6.5	81.0	29.4	129 500 *
7.0	79.9	29.3	119 300 *
7.5	78.9	29.2	110 400 *
8.0	77.8	29.1	102 500 *
8.5	76.7	29.0	94 900 *
9.0	75.6	28.9	87 600 *
10.0	73.4	28.6	75 300 *
11.0	71.2	28.2	65 500 *
12.0	69.0	27.8	57 500 *
13.0	66.7	27.4	50 800 *
14.0	64.4	26.9	45 000 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	139 000 *
6.5	81.9	32.5	129 900 *
7.0	80.9	32.5	119 100 *
7.5	80.0	32.4	109 200 *
8.0	79.0	32.3	99 900 *
8.5	78.1	32.1	91 900 *
9.0	77.1	32.0	85 000 *
10.0	75.1	31.7	73 300 *
11.0	73.2	31.4	63 900 *
12.0	71.2	31.1	56 200 *
13.0	69.2	30.7	49 700 *
14.0	67.1	30.3	44 200 *
15.0	65.1	29.8	39 500 *
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	121 800 *
7.0	81.8	35.5	115 500 *
7.5	80.9	35.5	105 200 *
8.0	80.0	35.4	96 600 *
8.5	79.2	35.3	89 100 *
9.0	78.3	35.2	82 400 *
10.0	76.5	34.9	71 300 *
11.0	74.8	34.6	62 200 *
12.0	73.0	34.3	54 800 *
13.0	71.2	34.0	48 500 *
14.0	69.3	33.6	43 200 *
15.0	67.5	33.2	38 600 *
16.0	65.6	32.7	34 600 *
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	117 100 *
7.0	82.5	38.6	111 200 *
7.5	81.7	38.6	101 500 *
8.0	80.9	38.5	93 400 *
8.5	80.1	38.4	86 200 *
9.0	79.3	38.3	79 900 *
10.0	77.7	38.0	69 200 *
11.0	76.1	37.8	60 600 *
12.0	74.4	37.5	53 300 *
13.0	72.8	37.2	47 300 *
14.0	71.1	36.8	42 100 *
15.0	69.5	36.5	37 700 *
16.0	67.8	36.1	33 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	101 300 *
7.5	82.3	41.6	98 300 *
8.0	81.6	41.6	90 400 *
8.5	80.9	41.5	83 700 *
9.0	80.1	41.4	77 600 *
10.0	78.6	41.2	67 400 *
11.0	77.2	40.9	59 100 *
12.0	75.7	40.7	52 100 *
13.0	74.2	40.4	46 300 *
14.0	72.6	40.1	41 300 *
15.0	71.1	39.7	36 900 *
16.0	69.6	39.4	33 200 *
18.0	66.4	38.5	26 900 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	88 600 *
8.0	82.2	44.6	87 700 *
8.5	81.5	44.6	81 200 *
9.0	80.8	44.5	75 400 *
10.0	79.5	44.3	65 600 *
11.0	78.1	44.1	57 600 *
12.0	76.7	43.8	50 900 *
13.0	75.3	43.6	45 200 *
14.0	73.9	43.3	40 400 *
15.0	72.5	43.0	36 200 *
16.0	71.1	42.6	32 500 *
18.0	68.2	41.8	26 300 *
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	85 900 *
8.0	82.7	47.7	84 900 *
8.5	82.1	47.6	78 700 *
9.0	81.4	47.6	73 200 *
10.0	80.2	47.4	63 800 *
11.0	78.9	47.2	56 100 *
12.0	77.6	47.0	49 600 *
13.0	76.3	46.7	44 100 *
14.0	75.0	46.4	39 400 *
15.0	73.7	46.2	35 300 *
16.0	72.4	45.8	31 700 *
18.0	69.7	45.1	25 600 *
20.0	67.0	44.3	20 800 *



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

Luffing Jib No. 135

83 730 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

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

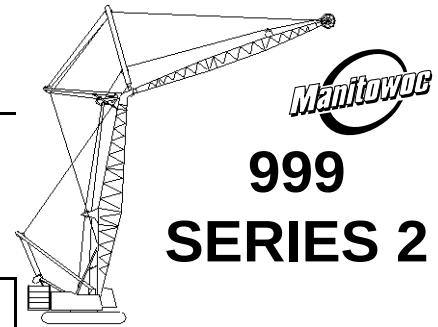
10 m/s with 21.3m thru 33.5m Luffing Jib

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	75 800
9.0	82.0	50.7	71 000
10.0	80.8	50.5	61 900
11.0	79.6	50.3	54 500
12.0	78.4	50.1	48 200
13.0	77.2	49.9	42 900
14.0	76.0	49.6	38 300
15.0	74.8	49.3	34 300
16.0	73.5	49.0	30 800
18.0	71.1	48.4	24 900
20.0	68.5	47.6	20 100
22.0	66.0	46.7	16 200
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	73 600
9.0	82.5	53.7	69 000
10.0	81.3	53.6	60 300
11.0	80.2	53.4	53 200
12.0	79.1	53.2	47 100
13.0	78.0	53.0	41 900
14.0	76.8	52.8	37 500
15.0	75.7	52.5	33 600
16.0	74.5	52.2	30 100
18.0	72.2	51.6	24 400
20.0	69.9	50.9	19 700
22.0	67.5	50.1	15 900
24.0	65.1	49.2	12 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	65 500
10.0	81.8	56.7	58 500
11.0	80.8	56.5	51 600
12.0	79.7	56.3	45 800
13.0	78.6	56.1	40 700
14.0	77.6	55.9	36 400
15.0	76.5	55.6	32 600
16.0	75.4	55.4	29 300
18.0	73.2	54.8	23 600
20.0	71.0	54.1	19 100
22.0	68.8	53.4	15 300
24.0	66.5	52.5	12 200
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	50 800
12.0	80.3	59.4	45 200
13.0	79.2	59.2	40 300
14.0	78.2	59.0	36 000
15.0	77.2	58.8	32 300
16.0	76.2	58.5	29 100
18.0	74.2	58.0	23 600
20.0	72.1	57.3	19 100
22.0	70.0	56.6	15 400
24.0	67.8	55.8	12 300
26.0	65.7	54.9	9 600



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

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

**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	177 100 *
5.0	82.5	23.5	172 800 *
5.5	81.1	23.4	156 200 *
6.0	79.7	23.3	142 300 *
6.5	78.4	23.2	130 400 *
7.0	77.0	23.1	120 000 *
7.5	75.6	23.0	110 900 *
8.0	74.2	22.8	102 900 *
8.5	72.8	22.6	95 800 *
9.0	71.3	22.5	89 400 *
10.0	68.4	22.1	78 400 *
11.0	65.5	21.6	68 500
12.0	62.5	21.1	58 800
13.0	59.3	20.5	50 600
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	166 300 *
5.5	82.2	26.5	156 200 *
6.0	81.0	26.4	142 300 *
6.5	79.8	26.3	130 400 *
7.0	78.6	26.2	120 000 *
7.5	77.4	26.1	111 000 *
8.0	76.2	26.0	103 000 *
8.5	75.0	25.8	95 900 *
9.0	73.8	25.7	89 500 *
10.0	71.3	25.3	77 400
11.0	68.8	24.9	66 900
12.0	66.2	24.5	58 500
13.0	63.5	24.0	51 200
14.0	60.9	23.4	44 300
15.0	58.1	22.8	38 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	147 900 *
6.0	82.0	29.5	142 400 *
6.5	81.0	29.4	130 400 *
7.0	79.9	29.3	120 100 *
7.5	78.9	29.2	111 100 *
8.0	77.8	29.1	103 000
8.5	76.7	29.0	95 200
9.0	75.6	28.9	87 900
10.0	73.4	28.6	75 300
11.0	71.2	28.2	65 400
12.0	69.0	27.8	57 200
13.0	66.7	27.4	50 400
14.0	64.4	26.9	44 700
15.0	62.0	26.4	39 200
16.0	59.6	25.8	34 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	140 100 *
6.5	81.9	32.5	130 900 *
7.0	80.9	32.5	119 900
7.5	80.0	32.4	109 800
8.0	79.0	32.3	100 400
8.5	78.1	32.1	92 400
9.0	77.1	32.0	85 300
10.0	75.1	31.7	73 400
11.0	73.2	31.4	63 900
12.0	71.2	31.1	56 000
13.0	69.2	30.7	49 500
14.0	67.1	30.3	43 900
15.0	65.1	29.8	39 100
16.0	62.9	29.3	34 800
18.0	58.6	28.1	27 100
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	122 700
7.0	81.8	35.5	116 300
7.5	80.9	35.5	105 900
8.0	80.0	35.4	97 200
8.5	79.2	35.3	89 500
9.0	78.3	35.2	82 800
10.0	76.5	34.9	71 500
11.0	74.8	34.6	62 300
12.0	73.0	34.3	54 700
13.0	71.2	34.0	48 400
14.0	69.3	33.6	43 000
15.0	67.5	33.2	38 300
16.0	65.6	32.7	34 200
18.0	61.7	31.7	27 300
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	118 000
7.0	82.5	38.6	112 000
7.5	81.7	38.6	102 200
8.0	80.9	38.5	93 900
8.5	80.1	38.4	86 700
9.0	79.3	38.3	80 300
10.0	77.7	38.0	69 400
11.0	76.1	37.8	60 600
12.0	74.4	37.5	53 300
13.0	72.8	37.2	47 200
14.0	71.1	36.8	42 000
15.0	69.5	36.5	37 400
16.0	67.8	36.1	33 400
18.0	64.3	35.1	26 900
20.0	60.7	34.0	21 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	102 000
7.5	82.3	41.6	99 000
8.0	81.6	41.6	91 000
8.5	80.9	41.5	84 200
9.0	80.1	41.4	78 000
10.0	78.6	41.2	67 700
11.0	77.2	40.9	59 200
12.0	75.7	40.7	52 200
13.0	74.2	40.4	46 200
14.0	72.6	40.1	41 100
15.0	71.1	39.7	36 800
16.0	69.6	39.4	32 900
18.0	66.4	38.5	26 500
20.0	63.2	37.5	21 400
22.0	59.9	36.4	17 200
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	89 200
8.0	82.2	44.6	88 200
8.5	81.5	44.6	81 700
9.0	80.8	44.5	75 800
10.0	79.5	44.3	65 900
11.0	78.1	44.1	57 800
12.0	76.7	43.8	51 000
13.0	75.3	43.6	45 200
14.0	73.9	43.3	40 300
15.0	72.5	43.0	36 000
16.0	71.1	42.6	32 300
18.0	68.2	41.8	26 000
20.0	65.3	40.9	21 000
22.0	62.2	39.9	16 900
24.0	59.1	38.7	13 500


999
SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
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	86 500
8.0	82.7	47.7	85 500
8.5	82.1	47.6	79 300
9.0	81.4	47.6	73 700
10.0	80.2	47.4	64 100
11.0	78.9	47.2	56 300
12.0	77.6	47.0	49 700
13.0	76.3	46.7	44 100
14.0	75.0	46.4	39 300
15.0	73.7	46.2	35 200
16.0	72.4	45.8	31 500
18.0	69.7	45.1	25 300
20.0	67.0	44.3	20 500
22.0	64.3	43.3	16 400
24.0	61.4	42.3	13 100
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	76 300
9.0	82.0	50.7	71 500
10.0	80.8	50.5	62 200
11.0	79.6	50.3	54 700
12.0	78.4	50.1	48 300
13.0	77.2	49.9	42 900
14.0	76.0	49.6	38 300
15.0	74.8	49.3	34 200
16.0	73.5	49.0	30 600
18.0	71.1	48.4	24 600
20.0	68.5	47.6	19 900
22.0	66.0	46.7	15 900
24.0	63.4	45.7	12 600
26.0	60.7	44.6	9 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	74 200
9.0	82.5	53.7	69 500
10.0	81.3	53.6	60 600
11.0	80.2	53.4	53 400
12.0	79.1	53.2	47 200
13.0	78.0	53.0	42 000
14.0	76.8	52.8	37 500
15.0	75.7	52.5	33 500
16.0	74.5	52.2	30 000
18.0	72.2	51.6	24 200
20.0	69.9	50.9	19 500
22.0	67.5	50.1	15 600
24.0	65.1	49.2	12 300
26.0	62.6	48.1	9 600
28.0	60.0	47.0	7 200
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	66 000
10.0	81.8	56.7	58 800
11.0	80.8	56.5	51 800
12.0	79.7	56.3	45 900
13.0	78.6	56.1	40 800
14.0	77.6	55.9	36 400
15.0	76.5	55.6	32 600
16.0	75.4	55.4	29 200
18.0	73.2	54.8	23 400
20.0	71.0	54.1	18 800
22.0	68.8	53.4	15 000
24.0	66.5	52.5	11 800
26.0	64.2	51.6	9 100
28.0	61.9	50.5	6 800

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	51 100
12.0	80.3	59.4	45 300
13.0	79.2	59.2	40 400
14.0	78.2	59.0	36 100
15.0	77.2	58.8	32 300
16.0	76.2	58.5	29 000
18.0	74.2	58.0	23 400
20.0	72.1	57.3	18 900
22.0	70.0	56.6	15 100
24.0	67.8	55.8	12 000
26.0	65.7	54.9	9 300
28.0	63.5	54.0	6 900
30.0	61.2	52.9	4 900



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

Boom No. 82 or 22EL

Luffing Jib No. 135

83 730 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

**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
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	175 800 *
5.0	82.5	23.5	171 400 *
5.5	81.1	23.4	154 900 *
6.0	79.7	23.3	141 100 *
6.5	78.4	23.2	129 100 *
7.0	77.0	23.1	118 900 *
7.5	75.6	23.0	109 900 *
8.0	74.2	22.8	101 900 *
8.5	72.8	22.6	94 800 *
9.0	71.3	22.5	88 400 *
10.0	68.4	22.1	77 400
11.0	65.5	21.6	67 300
12.0	62.5	21.1	57 700
13.0	59.3	20.5	49 500
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	165 000 *
5.5	82.2	26.5	155 000 *
6.0	81.0	26.4	141 100 *
6.5	79.8	26.3	129 200 *
7.0	78.6	26.2	119 000 *
7.5	77.4	26.1	109 900 *
8.0	76.2	26.0	102 000 *
8.5	75.0	25.8	94 900 *
9.0	73.8	25.7	88 500 *
10.0	71.3	25.3	76 100
11.0	68.8	24.9	65 800
12.0	66.2	24.5	57 400
13.0	63.5	24.0	50 200
14.0	60.9	23.4	43 400
15.0	58.1	22.8	37 800
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	146 700 *
6.0	82.0	29.5	141 300 *
6.5	81.0	29.4	129 400 *
7.0	79.9	29.3	119 100 *
7.5	78.9	29.2	110 100 *
8.0	77.8	29.1	102 100
8.5	76.7	29.0	94 000
9.0	75.6	28.9	86 600
10.0	73.4	28.6	74 200
11.0	71.2	28.2	64 300
12.0	69.0	27.8	56 200
13.0	66.7	27.4	49 500
14.0	64.4	26.9	43 800
15.0	62.0	26.4	38 300
16.0	59.6	25.8	33 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	139 000 *
6.5	81.9	32.5	129 800 *
7.0	80.9	32.5	118 800
7.5	80.0	32.4	108 400
8.0	79.0	32.3	99 200
8.5	78.1	32.1	91 200
9.0	77.1	32.0	84 100
10.0	75.1	31.7	72 400
11.0	73.2	31.4	62 900
12.0	71.2	31.1	55 100
13.0	69.2	30.7	48 600
14.0	67.1	30.3	43 100
15.0	65.1	29.8	38 300
16.0	62.9	29.3	34 000
18.0	58.6	28.1	26 500
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	121 400
7.0	81.8	35.5	115 000
7.5	80.9	35.5	104 700
8.0	80.0	35.4	96 000
8.5	79.2	35.3	88 400
9.0	78.3	35.2	81 700
10.0	76.5	34.9	70 400
11.0	74.8	34.6	61 300
12.0	73.0	34.3	53 800
13.0	71.2	34.0	47 500
14.0	69.3	33.6	42 100
15.0	67.5	33.2	37 500
16.0	65.6	32.7	33 500
18.0	61.7	31.7	26 600
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	116 700
7.0	82.5	38.6	110 700
7.5	81.7	38.6	101 000
8.0	80.9	38.5	92 800
8.5	80.1	38.4	85 600
9.0	79.3	38.3	79 200
10.0	77.7	38.0	68 500
11.0	76.1	37.8	59 700
12.0	74.4	37.5	52 500
13.0	72.8	37.2	46 400
14.0	71.1	36.8	41 200
15.0	69.5	36.5	36 700
16.0	67.8	36.1	32 700
18.0	64.3	35.1	26 200
20.0	60.7	34.0	20 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	100 900
7.5	82.3	41.6	97 900
8.0	81.6	41.6	90 000
8.5	80.9	41.5	83 100
9.0	80.1	41.4	77 000
10.0	78.6	41.2	66 700
11.0	77.2	40.9	58 300
12.0	75.7	40.7	51 400
13.0	74.2	40.4	45 400
14.0	72.6	40.1	40 400
15.0	71.1	39.7	36 000
16.0	69.6	39.4	32 200
18.0	66.4	38.5	25 800
20.0	63.2	37.5	20 800
22.0	59.9	36.4	16 600
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	88 200
8.0	82.2	44.6	87 200
8.5	81.5	44.6	80 700
9.0	80.8	44.5	74 800
10.0	79.5	44.3	65 000
11.0	78.1	44.1	56 900
12.0	76.7	43.8	50 200
13.0	75.3	43.6	44 500
14.0	73.9	43.3	39 600
15.0	72.5	43.0	35 300
16.0	71.1	42.6	31 600
18.0	68.2	41.8	25 400
20.0	65.3	40.9	20 400
22.0	62.2	39.9	16 300
24.0	59.1	38.7	13 000



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**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	85 500
8.0	82.7	47.7	84 500
8.5	82.1	47.6	78 300
9.0	81.4	47.6	72 700
10.0	80.2	47.4	63 200
11.0	78.9	47.2	55 500
12.0	77.6	47.0	48 900
13.0	76.3	46.7	43 400
14.0	75.0	46.4	38 600
15.0	73.7	46.2	34 500
16.0	72.4	45.8	30 800
18.0	69.7	45.1	24 700
20.0	67.0	44.3	19 900
22.0	64.3	43.3	15 900
24.0	61.4	42.3	12 500
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	75 400
9.0	82.0	50.7	70 600
10.0	80.8	50.5	61 400
11.0	79.6	50.3	53 900
12.0	78.4	50.1	47 600
13.0	77.2	49.9	42 200
14.0	76.0	49.6	37 600
15.0	74.8	49.3	33 500
16.0	73.5	49.0	30 000
18.0	71.1	48.4	24 100
20.0	68.5	47.6	19 300
22.0	66.0	46.7	15 400
24.0	63.4	45.7	12 100
26.0	60.7	44.6	9 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	73 300
9.0	82.5	53.7	68 600
10.0	81.3	53.6	59 800
11.0	80.2	53.4	52 600
12.0	79.1	53.2	46 500
13.0	78.0	53.0	41 300
14.0	76.8	52.8	36 800
15.0	75.7	52.5	32 900
16.0	74.5	52.2	29 400
18.0	72.2	51.6	23 600
20.0	69.9	50.9	18 900
22.0	67.5	50.1	15 100
24.0	65.1	49.2	11 800
26.0	62.6	48.1	9 100
28.0	60.0	47.0	6 700
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	65 200
10.0	81.8	56.7	58 100
11.0	80.8	56.5	51 100
12.0	79.7	56.3	45 200
13.0	78.6	56.1	40 100
14.0	77.6	55.9	35 800
15.0	76.5	55.6	31 900
16.0	75.4	55.4	28 600
18.0	73.2	54.8	22 900
20.0	71.0	54.1	18 300
22.0	68.8	53.4	14 500
24.0	66.5	52.5	11 300
26.0	64.2	51.6	8 600
28.0	61.9	50.5	6 300

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	50 400
12.0	80.3	59.4	44 600
13.0	79.2	59.2	39 700
14.0	78.2	59.0	35 500
15.0	77.2	58.8	31 700
16.0	76.2	58.5	28 400
18.0	74.2	58.0	22 900
20.0	72.1	57.3	18 300
22.0	70.0	56.6	14 600
24.0	67.8	55.8	11 500
26.0	65.7	54.9	8 800
28.0	63.5	54.0	6 500



999 SERIES 2

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**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	173 800 *
5.0	82.5	23.5	169 400 *
5.5	81.1	23.4	153 000 *
6.0	79.7	23.3	139 200 *
6.5	78.4	23.2	127 300 *
7.0	77.0	23.1	117 000 *
7.5	75.6	23.0	108 100 *
8.0	74.2	22.8	100 100 *
8.5	72.8	22.6	93 100 *
9.0	71.3	22.5	86 700 *
10.0	68.4	22.1	75 700
11.0	65.5	21.6	65 300
12.0	62.5	21.1	56 000
13.0	59.3	20.5	47 800
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	163 100 *
5.5	82.2	26.5	153 100 *
6.0	81.0	26.4	139 300 *
6.5	79.8	26.3	127 500 *
7.0	78.6	26.2	117 200 *
7.5	77.4	26.1	108 200 *
8.0	76.2	26.0	100 300 *
8.5	75.0	25.8	93 300 *
9.0	73.8	25.7	86 700
10.0	71.3	25.3	74 200
11.0	68.8	24.9	64 000
12.0	66.2	24.5	55 600
13.0	63.5	24.0	48 600
14.0	60.9	23.4	41 900
15.0	58.1	22.8	36 300
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	145 000 *
6.0	82.0	29.5	139 600 *
6.5	81.0	29.4	127 600 *
7.0	79.9	29.3	117 400 *
7.5	78.9	29.2	108 400 *
8.0	77.8	29.1	100 400
8.5	76.7	29.0	92 000
9.0	75.6	28.9	84 600
10.0	73.4	28.6	72 400
11.0	71.2	28.2	62 600
12.0	69.0	27.8	54 500
13.0	66.7	27.4	47 900
14.0	64.4	26.9	42 200
15.0	62.0	26.4	36 900
16.0	59.6	25.8	32 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	137 300 *
6.5	81.9	32.5	128 100 *
7.0	80.9	32.5	117 000
7.5	80.0	32.4	106 400
8.0	79.0	32.3	97 200
8.5	78.1	32.1	89 300
9.0	77.1	32.0	82 300
10.0	75.1	31.7	70 600
11.0	73.2	31.4	61 200
12.0	71.2	31.1	53 500
13.0	69.2	30.7	47 000
14.0	67.1	30.3	41 600
15.0	65.1	29.8	36 900
16.0	62.9	29.3	32 600
18.0	58.6	28.1	25 200
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	119 300
7.0	81.8	35.5	113 000
7.5	80.9	35.5	102 700
8.0	80.0	35.4	94 100
8.5	79.2	35.3	86 600
9.0	78.3	35.2	80 000
10.0	76.5	34.9	68 800
11.0	74.8	34.6	59 700
12.0	73.0	34.3	52 300
13.0	71.2	34.0	46 000
14.0	69.3	33.6	40 700
15.0	67.5	33.2	36 100
16.0	65.6	32.7	32 100
18.0	61.7	31.7	25 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	114 800
7.0	82.5	38.6	108 800
7.5	81.7	38.6	99 100
8.0	80.9	38.5	91 000
8.5	80.1	38.4	83 900
9.0	79.3	38.3	77 500
10.0	77.7	38.0	66 900
11.0	76.1	37.8	58 200
12.0	74.4	37.5	51 000
13.0	72.8	37.2	45 000
14.0	71.1	36.8	39 800
15.0	69.5	36.5	35 300
16.0	67.8	36.1	31 400
18.0	64.3	35.1	25 000
20.0	60.7	34.0	19 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	99 100
7.5	82.3	41.6	96 100
8.0	81.6	41.6	88 200
8.5	80.9	41.5	81 400
9.0	80.1	41.4	75 400
10.0	78.6	41.2	65 200
11.0	77.2	40.9	56 800
12.0	75.7	40.7	49 900
13.0	74.2	40.4	44 000
14.0	72.6	40.1	39 100
15.0	71.1	39.7	34 700
16.0	69.6	39.4	30 900
18.0	66.4	38.5	24 600
20.0	63.2	37.5	19 600
22.0	59.9	36.4	15 500
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	86 500
8.0	82.2	44.6	85 600
8.5	81.5	44.6	79 100
9.0	80.8	44.5	73 300
10.0	79.5	44.3	63 500
11.0	78.1	44.1	55 500
12.0	76.7	43.8	48 800
13.0	75.3	43.6	43 100
14.0	73.9	43.3	38 200
15.0	72.5	43.0	34 000
16.0	71.1	42.6	30 300
18.0	68.2	41.8	24 200
20.0	65.3	40.9	19 300
22.0	62.2	39.9	15 200
24.0	59.1	38.7	11 900


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SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**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	83 800
8.0	82.7	47.7	82 900
8.5	82.1	47.6	76 700
9.0	81.4	47.6	71 200
10.0	80.2	47.4	61 800
11.0	78.9	47.2	54 100
12.0	77.6	47.0	47 600
13.0	76.3	46.7	42 100
14.0	75.0	46.4	37 300
15.0	73.7	46.2	33 200
16.0	72.4	45.8	29 600
18.0	69.7	45.1	23 600
20.0	67.0	44.3	18 800
22.0	64.3	43.3	14 800
24.0	61.4	42.3	11 500
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	73 900
9.0	82.0	50.7	69 100
10.0	80.8	50.5	60 000
11.0	79.6	50.3	52 500
12.0	78.4	50.1	46 300
13.0	77.2	49.9	41 000
14.0	76.0	49.6	36 300
15.0	74.8	49.3	32 300
16.0	73.5	49.0	28 800
18.0	71.1	48.4	22 900
20.0	68.5	47.6	18 200
22.0	66.0	46.7	14 300
24.0	63.4	45.7	11 000
26.0	60.7	44.6	8 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	71 800
9.0	82.5	53.7	67 200
10.0	81.3	53.6	58 400
11.0	80.2	53.4	51 300
12.0	79.1	53.2	45 200
13.0	78.0	53.0	40 000
14.0	76.8	52.8	35 600
15.0	75.7	52.5	31 700
16.0	74.5	52.2	28 300
18.0	72.2	51.6	22 500
20.0	69.9	50.9	17 800
22.0	67.5	50.1	14 000
24.0	65.1	49.2	10 800
26.0	62.6	48.1	8 100
28.0	60.0	47.0	5 800
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	63 800
10.0	81.8	56.7	56 700
11.0	80.8	56.5	49 800
12.0	79.7	56.3	43 900
13.0	78.6	56.1	38 900
14.0	77.6	55.9	34 600
15.0	76.5	55.6	30 800
16.0	75.4	55.4	27 400
18.0	73.2	54.8	21 800
20.0	71.0	54.1	17 200
22.0	68.8	53.4	13 500
24.0	66.5	52.5	10 300
26.0	64.2	51.6	7 600

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	53 400
11.0	81.3	59.6	49 100
12.0	80.3	59.4	43 400
13.0	79.2	59.2	38 500
14.0	78.2	59.0	34 300
15.0	77.2	58.8	30 600
16.0	76.2	58.5	27 300
18.0	74.2	58.0	21 800
20.0	72.1	57.3	17 300
22.0	70.0	56.6	13 600
24.0	67.8	55.8	10 500
26.0	65.7	54.9	7 900
28.0	63.5	54.0	5 600



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

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

**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	176 400 *
5.0	82.5	23.5	172 000 *
5.5	81.1	23.4	155 300 *
6.0	79.7	23.3	141 200 *
6.5	78.4	23.2	129 100 *
7.0	77.0	23.1	118 600 *
7.5	75.6	23.0	109 400 *
8.0	74.2	22.8	101 200 *
8.5	72.8	22.6	94 000 *
9.0	71.3	22.5	87 500 *
10.0	68.4	22.1	76 300
11.0	65.5	21.6	65 700
12.0	62.5	21.1	56 400
13.0	59.3	20.5	48 000
14.0	56.1	19.8	41 200
15.0	52.7	19.0	35 600
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	165 600 *
5.5	82.2	26.5	155 400 *
6.0	81.0	26.4	141 400 *
6.5	79.8	26.3	129 300 *
7.0	78.6	26.2	118 800 *
7.5	77.4	26.1	109 700 *
8.0	76.2	26.0	101 600 *
8.5	75.0	25.8	94 400 *
9.0	73.8	25.7	87 700
10.0	71.3	25.3	74 900
11.0	68.8	24.9	64 500
12.0	66.2	24.5	55 900
13.0	63.5	24.0	48 800
14.0	60.9	23.4	42 100
15.0	58.1	22.8	36 400
16.0	55.2	22.1	31 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	147 200 *
6.0	82.0	29.5	141 700 *
6.5	81.0	29.4	129 500 *
7.0	79.9	29.3	119 100 *
7.5	78.9	29.2	109 900 *
8.0	77.8	29.1	101 700
8.5	76.7	29.0	93 300
9.0	75.6	28.9	85 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	73 200
11.0	71.2	28.2	63 200
12.0	69.0	27.8	55 000
13.0	66.7	27.4	48 100
14.0	64.4	26.9	42 300
15.0	62.0	26.4	37 200
16.0	59.6	25.8	32 300
18.0	54.5	24.4	24 600
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	139 400 *
6.5	81.9	32.5	130 100 *
7.0	80.9	32.5	118 800
7.5	80.0	32.4	108 000
8.0	79.0	32.3	98 700
8.5	78.1	32.1	90 600
9.0	77.1	32.0	83 400
10.0	75.1	31.7	71 500
11.0	73.2	31.4	61 900
12.0	71.2	31.1	54 000
13.0	69.2	30.7	47 400
14.0	67.1	30.3	41 800
15.0	65.1	29.8	37 000
16.0	62.9	29.3	32 700
18.0	58.6	28.1	25 200
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	121 300
7.0	81.8	35.5	114 900
7.5	80.9	35.5	104 400
8.0	80.0	35.4	95 600
8.5	79.2	35.3	87 900
9.0	78.3	35.2	81 100
10.0	76.5	34.9	69 700
11.0	74.8	34.6	60 500
12.0	73.0	34.3	52 900
13.0	71.2	34.0	46 500
14.0	69.3	33.6	41 000
15.0	67.5	33.2	36 300
16.0	65.6	32.7	32 200
18.0	61.7	31.7	25 400
20.0	57.7	30.4	19 600
22.0	53.5	29.0	15 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	116 700
7.0	82.5	38.6	110 700
7.5	81.7	38.6	100 800
8.0	80.9	38.5	92 500
8.5	80.1	38.4	85 200
9.0	79.3	38.3	78 700
10.0	77.7	38.0	67 800
11.0	76.1	37.8	59 000
12.0	74.4	37.5	51 600
13.0	72.8	37.2	45 400
14.0	71.1	36.8	40 100
15.0	69.5	36.5	35 600
16.0	67.8	36.1	31 600
18.0	64.3	35.1	25 000
20.0	60.7	34.0	19 800
22.0	57.0	32.8	15 200
24.0	53.2	31.3	11 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	100 800
7.5	82.3	41.6	97 800
8.0	81.6	41.6	89 700
8.5	80.9	41.5	82 800
9.0	80.1	41.4	76 600
10.0	78.6	41.2	66 200
11.0	77.2	40.9	57 700
12.0	75.7	40.7	50 600
13.0	74.2	40.4	44 600
14.0	72.6	40.1	39 500
15.0	71.1	39.7	35 000
16.0	69.6	39.4	31 200
18.0	66.4	38.5	24 700
20.0	63.2	37.5	19 600
22.0	59.9	36.4	15 400
24.0	56.4	35.1	11 800



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

Luffing Jib No. 135

83 730 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

**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	88 000
8.0	82.2	44.6	87 000
8.5	81.5	44.6	80 400
9.0	80.8	44.5	74 500
10.0	79.5	44.3	64 500
11.0	78.1	44.1	56 300
12.0	76.7	43.8	49 400
13.0	75.3	43.6	43 700
14.0	73.9	43.3	38 700
15.0	72.5	43.0	34 400
16.0	71.1	42.6	30 600
18.0	68.2	41.8	24 300
20.0	65.3	40.9	19 200
22.0	62.2	39.9	15 100
24.0	59.1	38.7	11 700
26.0	55.9	37.4	8 800
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	85 300
8.0	82.7	47.7	84 400
8.5	82.1	47.6	78 000
9.0	81.4	47.6	72 400
10.0	80.2	47.4	62 800
11.0	78.9	47.2	54 900
12.0	77.6	47.0	48 300
13.0	76.3	46.7	42 700
14.0	75.0	46.4	37 800
15.0	73.7	46.2	33 600
16.0	72.4	45.8	29 900
18.0	69.7	45.1	23 800
20.0	67.0	44.3	18 800
22.0	64.3	43.3	14 800
24.0	61.4	42.3	11 400
26.0	58.5	41.1	8 500
28.0	55.5	39.7	6 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	75 200
9.0	82.0	50.7	70 300
10.0	80.8	50.5	61 000
11.0	79.6	50.3	53 400
12.0	78.4	50.1	47 000
13.0	77.2	49.9	41 500
14.0	76.0	49.6	36 800
15.0	74.8	49.3	32 700
16.0	73.5	49.0	29 100
18.0	71.1	48.4	23 100
20.0	68.5	47.6	18 300
22.0	66.0	46.7	14 300
24.0	63.4	45.7	11 000
26.0	60.7	44.6	8 100
28.0	57.9	43.4	5 700
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	73 100
9.0	82.5	53.7	68 400
10.0	81.3	53.6	59 500
11.0	80.2	53.4	52 100
12.0	79.1	53.2	45 900
13.0	78.0	53.0	40 700
14.0	76.8	52.8	36 100
15.0	75.7	52.5	32 100
16.0	74.5	52.2	28 600
18.0	72.2	51.6	22 700
20.0	69.9	50.9	18 000
22.0	67.5	50.1	14 100
24.0	65.1	49.2	10 800
26.0	62.6	48.1	8 000
28.0	60.0	47.0	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	64 900
10.0	81.8	56.7	57 700
11.0	80.8	56.5	50 700
12.0	79.7	56.3	44 700
13.0	78.6	56.1	39 500
14.0	77.6	55.9	35 100
15.0	76.5	55.6	31 200
16.0	75.4	55.4	27 800
18.0	73.2	54.8	22 000
20.0	71.0	54.1	17 400
22.0	68.8	53.4	13 600
24.0	66.5	52.5	10 300
26.0	64.2	51.6	7 600
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	50 000
12.0	80.3	59.4	44 100
13.0	79.2	59.2	39 200
14.0	78.2	59.0	34 800
15.0	77.2	58.8	31 000
16.0	76.2	58.5	27 700
18.0	74.2	58.0	22 100
20.0	72.1	57.3	17 500
22.0	70.0	56.6	13 700
24.0	67.8	55.8	10 500
26.0	65.7	54.9	7 800
28.0	63.5	54.0	5 500



Liftcrane Boom Capacities With Luffing Jib Attached

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

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	174 800 *
5.0	82.5	23.5	170 400 *
5.5	81.1	23.4	153 600 *
6.0	79.7	23.3	139 600 *
6.5	78.4	23.2	127 500 *
7.0	77.0	23.1	117 000 *
7.5	75.6	23.0	107 800 *
8.0	74.2	22.8	99 700 *
8.5	72.8	22.6	92 500 *
9.0	71.3	22.5	86 000 *
10.0	68.4	22.1	74 600
11.0	65.5	21.6	63 800
12.0	62.5	21.1	54 600
13.0	59.3	20.5	46 300
14.0	56.1	19.8	39 600
15.0	52.7	19.0	34 000
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	164 100 *
5.5	82.2	26.5	153 800 *
6.0	81.0	26.4	139 800 *
6.5	79.8	26.3	127 800 *
7.0	78.6	26.2	117 300 *
7.5	77.4	26.1	108 200 *
8.0	76.2	26.0	100 100 *
8.5	75.0	25.8	92 900 *
9.0	73.8	25.7	86 000
10.0	71.3	25.3	73 100
11.0	68.8	24.9	62 700
12.0	66.2	24.5	54 200
13.0	63.5	24.0	47 100
14.0	60.9	23.4	40 600
15.0	58.1	22.8	34 900
16.0	55.2	22.1	30 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	145 700 *
6.0	82.0	29.5	140 200 *
6.5	81.0	29.4	128 000 *
7.0	79.9	29.3	117 600 *
7.5	78.9	29.2	108 400
8.0	77.8	29.1	100 000
8.5	76.7	29.0	91 500
9.0	75.6	28.9	83 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	71 500
11.0	71.2	28.2	61 500
12.0	69.0	27.8	53 400
13.0	66.7	27.4	46 500
14.0	64.4	26.9	40 800
15.0	62.0	26.4	35 700
16.0	59.6	25.8	31 000
18.0	54.5	24.4	23 300
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	137 900 *
6.5	81.9	32.5	128 700 *
7.0	80.9	32.5	117 200
7.5	80.0	32.4	106 200
8.0	79.0	32.3	96 900
8.5	78.1	32.1	88 900
9.0	77.1	32.0	81 800
10.0	75.1	31.7	69 900
11.0	73.2	31.4	60 400
12.0	71.2	31.1	52 500
13.0	69.2	30.7	45 900
14.0	67.1	30.3	40 300
15.0	65.1	29.8	35 600
16.0	62.9	29.3	31 400
18.0	58.6	28.1	24 000
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	119 500
7.0	81.8	35.5	113 100
7.5	80.9	35.5	102 700
8.0	80.0	35.4	94 000
8.5	79.2	35.3	86 300
9.0	78.3	35.2	79 500
10.0	76.5	34.9	68 200
11.0	74.8	34.6	59 000
12.0	73.0	34.3	51 400
13.0	71.2	34.0	45 000
14.0	69.3	33.6	39 700
15.0	67.5	33.2	34 900
16.0	65.6	32.7	30 900
18.0	61.7	31.7	24 200
20.0	57.7	30.4	18 500
22.0	53.5	29.0	13 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	115 000
7.0	82.5	38.6	109 000
7.5	81.7	38.6	99 200
8.0	80.9	38.5	90 900
8.5	80.1	38.4	83 600
9.0	79.3	38.3	77 200
10.0	77.7	38.0	66 400
11.0	76.1	37.8	57 600
12.0	74.4	37.5	50 200
13.0	72.8	37.2	44 100
14.0	71.1	36.8	38 800
15.0	69.5	36.5	34 300
16.0	67.8	36.1	30 300
18.0	64.3	35.1	23 800
20.0	60.7	34.0	18 500
22.0	57.0	32.8	14 200
24.0	53.2	31.3	10 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	99 200
7.5	82.3	41.6	96 200
8.0	81.6	41.6	88 200
8.5	80.9	41.5	81 300
9.0	80.1	41.4	75 200
10.0	78.6	41.2	64 800
11.0	77.2	40.9	56 300
12.0	75.7	40.7	49 300
13.0	74.2	40.4	43 300
14.0	72.6	40.1	38 200
15.0	71.1	39.7	33 800
16.0	69.6	39.4	30 000
18.0	66.4	38.5	23 500
20.0	63.2	37.5	18 400
22.0	59.9	36.4	14 200
24.0	56.4	35.1	10 700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**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	86 500
8.0	82.2	44.6	85 600
8.5	81.5	44.6	79 000
9.0	80.8	44.5	73 100
10.0	79.5	44.3	63 100
11.0	78.1	44.1	55 000
12.0	76.7	43.8	48 200
13.0	75.3	43.6	42 400
14.0	73.9	43.3	37 500
15.0	72.5	43.0	33 200
16.0	71.1	42.6	29 400
18.0	68.2	41.8	23 100
20.0	65.3	40.9	18 200
22.0	62.2	39.9	14 000
24.0	59.1	38.7	10 600
26.0	55.9	37.4	7 800
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	83 900
8.0	82.7	47.7	83 000
8.5	82.1	47.6	76 700
9.0	81.4	47.6	71 000
10.0	80.2	47.4	61 500
11.0	78.9	47.2	53 600
12.0	77.6	47.0	47 000
13.0	76.3	46.7	41 500
14.0	75.0	46.4	36 600
15.0	73.7	46.2	32 400
16.0	72.4	45.8	28 800
18.0	69.7	45.1	22 700
20.0	67.0	44.3	17 700
22.0	64.3	43.3	13 700
24.0	61.4	42.3	10 300
26.0	58.5	41.1	7 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	73 800
9.0	82.0	50.7	69 000
10.0	80.8	50.5	59 700
11.0	79.6	50.3	52 200
12.0	78.4	50.1	45 800
13.0	77.2	49.9	40 400
14.0	76.0	49.6	35 700
15.0	74.8	49.3	31 600
16.0	73.5	49.0	28 000
18.0	71.1	48.4	22 000
20.0	68.5	47.6	17 200
22.0	66.0	46.7	13 300
24.0	63.4	45.7	9 900
26.0	60.7	44.6	7 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	71 800
9.0	82.5	53.7	67 100
10.0	81.3	53.6	58 200
11.0	80.2	53.4	50 900
12.0	79.1	53.2	44 800
13.0	78.0	53.0	39 500
14.0	76.8	52.8	35 000
15.0	75.7	52.5	31 000
16.0	74.5	52.2	27 500
18.0	72.2	51.6	21 700
20.0	69.9	50.9	17 000
22.0	67.5	50.1	13 100
24.0	65.1	49.2	9 800
26.0	62.6	48.1	7 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	63 700
10.0	81.8	56.7	56 500
11.0	80.8	56.5	49 500
12.0	79.7	56.3	43 500
13.0	78.6	56.1	38 500
14.0	77.6	55.9	34 000
15.0	76.5	55.6	30 200
16.0	75.4	55.4	26 700
18.0	73.2	54.8	21 000
20.0	71.0	54.1	16 400
22.0	68.8	53.4	12 600
24.0	66.5	52.5	9 300
26.0	64.2	51.6	6 600
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 300
11.0	81.3	59.6	48 800
12.0	80.3	59.4	43 000
13.0	79.2	59.2	38 100
14.0	78.2	59.0	33 800
15.0	77.2	58.8	30 000
16.0	76.2	58.5	26 700
18.0	74.2	58.0	21 100
20.0	72.1	57.3	16 500
22.0	70.0	56.6	12 700
24.0	67.8	55.8	9 600
26.0	65.7	54.9	6 900



999 SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**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	173 600 *
5.0	82.5	23.5	169 200 *
5.5	81.1	23.4	152 400 *
6.0	79.7	23.3	138 400 *
6.5	78.4	23.2	126 300 *
7.0	77.0	23.1	115 800 *
7.5	75.6	23.0	106 700 *
8.0	74.2	22.8	98 600 *
8.5	72.8	22.6	91 400 *
9.0	71.3	22.5	84 900 *
10.0	68.4	22.1	73 400
11.0	65.5	21.6	62 400
12.0	62.5	21.1	53 400
13.0	59.3	20.5	45 200
14.0	56.1	19.8	38 500
15.0	52.7	19.0	32 900
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	162 900 *
5.5	82.2	26.5	152 700 *
6.0	81.0	26.4	138 700 *
6.5	79.8	26.3	126 700 *
7.0	78.6	26.2	116 200 *
7.5	77.4	26.1	107 100 *
8.0	76.2	26.0	99 000 *
8.5	75.0	25.8	91 900 *
9.0	73.8	25.7	84 800
10.0	71.3	25.3	71 800
11.0	68.8	24.9	61 500
12.0	66.2	24.5	53 100
13.0	63.5	24.0	46 000
14.0	60.9	23.4	39 500
15.0	58.1	22.8	34 000
16.0	55.2	22.1	29 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	144 600 *
6.0	82.0	29.5	139 100 *
6.5	81.0	29.4	127 000 *
7.0	79.9	29.3	116 600 *
7.5	78.9	29.2	107 400
8.0	77.8	29.1	98 700
8.5	76.7	29.0	90 200
9.0	75.6	28.9	82 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	70 300
11.0	71.2	28.2	60 400
12.0	69.0	27.8	52 300
13.0	66.7	27.4	45 500
14.0	64.4	26.9	39 800
15.0	62.0	26.4	34 800
16.0	59.6	25.8	30 100
18.0	54.5	24.4	22 400
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	136 900 *
6.5	81.9	32.5	127 500
7.0	80.9	32.5	115 900
7.5	80.0	32.4	104 900
8.0	79.0	32.3	95 700
8.5	78.1	32.1	87 600
9.0	77.1	32.0	80 600
10.0	75.1	31.7	68 800
11.0	73.2	31.4	59 300
12.0	71.2	31.1	51 500
13.0	69.2	30.7	44 900
14.0	67.1	30.3	39 400
15.0	65.1	29.8	34 600
16.0	62.9	29.3	30 400
18.0	58.6	28.1	23 200
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	118 200
7.0	81.8	35.5	111 800
7.5	80.9	35.5	101 400
8.0	80.0	35.4	92 800
8.5	79.2	35.3	85 200
9.0	78.3	35.2	78 400
10.0	76.5	34.9	67 100
11.0	74.8	34.6	58 000
12.0	73.0	34.3	50 400
13.0	71.2	34.0	44 100
14.0	69.3	33.6	38 700
15.0	67.5	33.2	34 100
16.0	65.6	32.7	30 000
18.0	61.7	31.7	23 400
20.0	57.7	30.4	17 800
22.0	53.5	29.0	13 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	113 800
7.0	82.5	38.6	107 800
7.5	81.7	38.6	98 000
8.0	80.9	38.5	89 800
8.5	80.1	38.4	82 600
9.0	79.3	38.3	76 200
10.0	77.7	38.0	65 400
11.0	76.1	37.8	56 600
12.0	74.4	37.5	49 300
13.0	72.8	37.2	43 200
14.0	71.1	36.8	38 000
15.0	69.5	36.5	33 500
16.0	67.8	36.1	29 500
18.0	64.3	35.1	23 000
20.0	60.7	34.0	17 800
22.0	57.0	32.8	13 500
24.0	53.2	31.3	9 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	98 100
7.5	82.3	41.6	95 100
8.0	81.6	41.6	87 100
8.5	80.9	41.5	80 300
9.0	80.1	41.4	74 200
10.0	78.6	41.2	63 800
11.0	77.2	40.9	55 400
12.0	75.7	40.7	48 400
13.0	74.2	40.4	42 400
14.0	72.6	40.1	37 400
15.0	71.1	39.7	33 000
16.0	69.6	39.4	29 100
18.0	66.4	38.5	22 800
20.0	63.2	37.5	17 700
22.0	59.9	36.4	13 500
24.0	56.4	35.1	10 100



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL

Luffing Jib No. 135

83 730 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

**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	85 500
8.0	82.2	44.6	84 500
8.5	81.5	44.6	78 000
9.0	80.8	44.5	72 100
10.0	79.5	44.3	62 200
11.0	78.1	44.1	54 100
12.0	76.7	43.8	47 300
13.0	75.3	43.6	41 600
14.0	73.9	43.3	36 700
15.0	72.5	43.0	32 400
16.0	71.1	42.6	28 700
18.0	68.2	41.8	22 400
20.0	65.3	40.9	17 400
22.0	62.2	39.9	13 400
24.0	59.1	38.7	10 000
26.0	55.9	37.4	7 100
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	82 900
8.0	82.7	47.7	82 000
8.5	82.1	47.6	75 700
9.0	81.4	47.6	70 100
10.0	80.2	47.4	60 600
11.0	78.9	47.2	52 800
12.0	77.6	47.0	46 300
13.0	76.3	46.7	40 700
14.0	75.0	46.4	35 900
15.0	73.7	46.2	31 700
16.0	72.4	45.8	28 100
18.0	69.7	45.1	22 000
20.0	67.0	44.3	17 100
22.0	64.3	43.3	13 100
24.0	61.4	42.3	9 700
26.0	58.5	41.1	6 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	72 900
9.0	82.0	50.7	68 100
10.0	80.8	50.5	58 900
11.0	79.6	50.3	51 300
12.0	78.4	50.1	45 000
13.0	77.2	49.9	39 600
14.0	76.0	49.6	35 000
15.0	74.8	49.3	30 900
16.0	73.5	49.0	27 300
18.0	71.1	48.4	21 400
20.0	68.5	47.6	16 600
22.0	66.0	46.7	12 600
24.0	63.4	45.7	9 400
26.0	60.7	44.6	6 500
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	70 900
9.0	82.5	53.7	66 200
10.0	81.3	53.6	57 400
11.0	80.2	53.4	50 200
12.0	79.1	53.2	44 000
13.0	78.0	53.0	38 800
14.0	76.8	52.8	34 300
15.0	75.7	52.5	30 400
16.0	74.5	52.2	26 900
18.0	72.2	51.6	21 000
20.0	69.9	50.9	16 300
22.0	67.5	50.1	12 400
24.0	65.1	49.2	9 200
26.0	62.6	48.1	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	62 900
10.0	81.8	56.7	55 800
11.0	80.8	56.5	48 800
12.0	79.7	56.3	42 800
13.0	78.6	56.1	37 700
14.0	77.6	55.9	33 400
15.0	76.5	55.6	29 500
16.0	75.4	55.4	26 100
18.0	73.2	54.8	20 400
20.0	71.0	54.1	15 800
22.0	68.8	53.4	12 000
24.0	66.5	52.5	8 800
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 000
11.0	81.3	59.6	48 000
12.0	80.3	59.4	42 300
13.0	79.2	59.2	37 400
14.0	78.2	59.0	33 100
15.0	77.2	58.8	29 400
16.0	76.2	58.5	26 000
18.0	74.2	58.0	20 500
20.0	72.1	57.3	15 900
22.0	70.0	56.6	12 200
24.0	67.8	55.8	9 000
26.0	65.7	54.9	6 400



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

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

**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	171 800 *
5.0	82.5	23.5	167 400 *
5.5	81.1	23.4	150 700 *
6.0	79.7	23.3	136 700 *
6.5	78.4	23.2	124 600 *
7.0	77.0	23.1	114 200 *
7.5	75.6	23.0	105 000 *
8.0	74.2	22.8	96 900 *
8.5	72.8	22.6	89 800 *
9.0	71.3	22.5	83 300 *
10.0	68.4	22.1	71 200
11.0	65.5	21.6	60 400
12.0	62.5	21.1	51 500
13.0	59.3	20.5	43 500
14.0	56.1	19.8	36 800
15.0	52.7	19.0	31 300
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	161 200 *
5.5	82.2	26.5	151 100 *
6.0	81.0	26.4	137 100 *
6.5	79.8	26.3	125 100 *
7.0	78.6	26.2	114 700 *
7.5	77.4	26.1	105 600 *
8.0	76.2	26.0	97 500 *
8.5	75.0	25.8	90 300 *
9.0	73.8	25.7	82 900
10.0	71.3	25.3	69 900
11.0	68.8	24.9	59 600
12.0	66.2	24.5	51 200
13.0	63.5	24.0	44 300
14.0	60.9	23.4	38 000
15.0	58.1	22.8	32 400
16.0	55.2	22.1	27 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	143 100 *
6.0	82.0	29.5	137 600 *
6.5	81.0	29.4	125 500 *
7.0	79.9	29.3	115 100 *
7.5	78.9	29.2	105 800
8.0	77.8	29.1	96 700
8.5	76.7	29.0	88 200
9.0	75.6	28.9	80 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	68 500
11.0	71.2	28.2	58 700
12.0	69.0	27.8	50 600
13.0	66.7	27.4	43 800
14.0	64.4	26.9	38 200
15.0	62.0	26.4	33 300
16.0	59.6	25.8	28 700
18.0	54.5	24.4	21 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	135 400 *
6.5	81.9	32.5	125 700
7.0	80.9	32.5	113 900
7.5	80.0	32.4	103 000
8.0	79.0	32.3	93 900
8.5	78.1	32.1	85 900
9.0	77.1	32.0	78 800
10.0	75.1	31.7	67 100
11.0	73.2	31.4	57 600
12.0	71.2	31.1	49 900
13.0	69.2	30.7	43 400
14.0	67.1	30.3	37 800
15.0	65.1	29.8	33 100
16.0	62.9	29.3	29 000
18.0	58.6	28.1	21 900
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	116 300
7.0	81.8	35.5	110 000
7.5	80.9	35.5	99 700
8.0	80.0	35.4	91 000
8.5	79.2	35.3	83 400
9.0	78.3	35.2	76 700
10.0	76.5	34.9	65 500
11.0	74.8	34.6	56 400
12.0	73.0	34.3	48 900
13.0	71.2	34.0	42 600
14.0	69.3	33.6	37 300
15.0	67.5	33.2	32 700
16.0	65.6	32.7	28 600
18.0	61.7	31.7	22 000
20.0	57.7	30.4	16 600
22.0	53.5	29.0	12 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	112 000
7.0	82.5	38.6	106 000
7.5	81.7	38.6	96 300
8.0	80.9	38.5	88 100
8.5	80.1	38.4	81 000
9.0	79.3	38.3	74 600
10.0	77.7	38.0	63 800
11.0	76.1	37.8	55 100
12.0	74.4	37.5	47 900
13.0	72.8	37.2	41 800
14.0	71.1	36.8	36 600
15.0	69.5	36.5	32 100
16.0	67.8	36.1	28 200
18.0	64.3	35.1	21 700
20.0	60.7	34.0	16 500
22.0	57.0	32.8	12 300
24.0	53.2	31.3	8 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	96 400
7.5	82.3	41.6	93 500
8.0	81.6	41.6	85 500
8.5	80.9	41.5	78 700
9.0	80.1	41.4	72 600
10.0	78.6	41.2	62 300
11.0	77.2	40.9	53 900
12.0	75.7	40.7	47 000
13.0	74.2	40.4	41 100
14.0	72.6	40.1	36 100
15.0	71.1	39.7	31 700
16.0	69.6	39.4	27 800
18.0	66.4	38.5	21 500
20.0	63.2	37.5	16 500
22.0	59.9	36.4	12 300
24.0	56.4	35.1	8 900


999
SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**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	84 000
8.0	82.2	44.6	83 000
8.5	81.5	44.6	76 500
9.0	80.8	44.5	70 700
10.0	79.5	44.3	60 800
11.0	78.1	44.1	52 700
12.0	76.7	43.8	46 000
13.0	75.3	43.6	40 300
14.0	73.9	43.3	35 400
15.0	72.5	43.0	31 100
16.0	71.1	42.6	27 400
18.0	68.2	41.8	21 200
20.0	65.3	40.9	16 300
22.0	62.2	39.9	12 200
24.0	59.1	38.7	8 800
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	81 400
8.0	82.7	47.7	80 500
8.5	82.1	47.6	74 300
9.0	81.4	47.6	68 700
10.0	80.2	47.4	59 200
11.0	78.9	47.2	51 500
12.0	77.6	47.0	44 900
13.0	76.3	46.7	39 400
14.0	75.0	46.4	34 700
15.0	73.7	46.2	30 500
16.0	72.4	45.8	26 900
18.0	69.7	45.1	20 800
20.0	67.0	44.3	16 000
22.0	64.3	43.3	11 900
24.0	61.4	42.3	8 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	71 500
9.0	82.0	50.7	66 700
10.0	80.8	50.5	57 600
11.0	79.6	50.3	50 100
12.0	78.4	50.1	43 800
13.0	77.2	49.9	38 400
14.0	76.0	49.6	33 700
15.0	74.8	49.3	29 700
16.0	73.5	49.0	26 200
18.0	71.1	48.4	20 200
20.0	68.5	47.6	15 500
22.0	66.0	46.7	11 600
24.0	63.4	45.7	8 300
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	69 500
9.0	82.5	53.7	64 900
10.0	81.3	53.6	56 100
11.0	80.2	53.4	48 900
12.0	79.1	53.2	42 800
13.0	78.0	53.0	37 600
14.0	76.8	52.8	33 100
15.0	75.7	52.5	29 200
16.0	74.5	52.2	25 700
18.0	72.2	51.6	19 900
20.0	69.9	50.9	15 200
22.0	67.5	50.1	11 400
24.0	65.1	49.2	8 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	61 500
10.0	81.8	56.7	54 500
11.0	80.8	56.5	47 500
12.0	79.7	56.3	41 600
13.0	78.6	56.1	36 600
14.0	77.6	55.9	32 200
15.0	76.5	55.6	28 400
16.0	75.4	55.4	25 000
18.0	73.2	54.8	19 300
20.0	71.0	54.1	14 700
22.0	68.8	53.4	11 000
24.0	66.5	52.5	7 800
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	52 500
11.0	81.3	59.6	46 900
12.0	80.3	59.4	41 200
13.0	79.2	59.2	36 300
14.0	78.2	59.0	32 000
15.0	77.2	58.8	28 300
16.0	76.2	58.5	25 000
18.0	74.2	58.0	19 400
20.0	72.1	57.3	14 900
22.0	70.0	56.6	11 200
24.0	67.8	55.8	8 100



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

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

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
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	170 200 *
5.0	82.5	23.5	165 800 *
5.5	81.1	23.4	149 100 *
6.0	79.7	23.3	135 100 *
6.5	78.4	23.2	123 100 *
7.0	77.0	23.1	112 600 *
7.5	75.6	23.0	103 500 *
8.0	74.2	22.8	95 500 *
8.5	72.8	22.6	88 300 *
9.0	71.3	22.5	81 800 *
10.0	68.4	22.1	69 300
11.0	65.5	21.6	58 600
12.0	62.5	21.1	49 800
13.0	59.3	20.5	41 800
14.0	56.1	19.8	35 300
15.0	52.7	19.0	29 800
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	159 700 *
5.5	82.2	26.5	149 500 *
6.0	81.0	26.4	135 600 *
6.5	79.8	26.3	123 600 *
7.0	78.6	26.2	113 200 *
7.5	77.4	26.1	104 100 *
8.0	76.2	26.0	96 100
8.5	75.0	25.8	88 600
9.0	73.8	25.7	81 100
10.0	71.3	25.3	68 100
11.0	68.8	24.9	57 900
12.0	66.2	24.5	49 600
13.0	63.5	24.0	42 700
14.0	60.9	23.4	36 500
15.0	58.1	22.8	31 000
16.0	55.2	22.1	26 300
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	141 600 *
6.0	82.0	29.5	136 100 *
6.5	81.0	29.4	124 100 *
7.0	79.9	29.3	113 700 *
7.5	78.9	29.2	104 300
8.0	77.8	29.1	94 900
8.5	76.7	29.0	86 500
9.0	75.6	28.9	79 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	66 900
11.0	71.2	28.2	57 100
12.0	69.0	27.8	49 000
13.0	66.7	27.4	42 300
14.0	64.4	26.9	36 700
15.0	62.0	26.4	31 900
16.0	59.6	25.8	27 500
18.0	54.5	24.4	19 800
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	134 000 *
6.5	81.9	32.5	124 000
7.0	80.9	32.5	112 000
7.5	80.0	32.4	101 200
8.0	79.0	32.3	92 100
8.5	78.1	32.1	84 200
9.0	77.1	32.0	77 200
10.0	75.1	31.7	65 600
11.0	73.2	31.4	56 100
12.0	71.2	31.1	48 400
13.0	69.2	30.7	42 000
14.0	67.1	30.3	36 500
15.0	65.1	29.8	31 800
16.0	62.9	29.3	27 700
18.0	58.6	28.1	20 700
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	114 600
7.0	81.8	35.5	108 300
7.5	80.9	35.5	98 000
8.0	80.0	35.4	89 400
8.5	79.2	35.3	81 900
9.0	78.3	35.2	75 200
10.0	76.5	34.9	64 000
11.0	74.8	34.6	55 000
12.0	73.0	34.3	47 600
13.0	71.2	34.0	41 300
14.0	69.3	33.6	36 000
15.0	67.5	33.2	31 400
16.0	65.6	32.7	27 400
18.0	61.7	31.7	20 800
20.0	57.7	30.4	15 500
22.0	53.5	29.0	11 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	110 300
7.0	82.5	38.6	104 400
7.5	81.7	38.6	94 700
8.0	80.9	38.5	86 600
8.5	80.1	38.4	79 500
9.0	79.3	38.3	73 100
10.0	77.7	38.0	62 400
11.0	76.1	37.8	53 800
12.0	74.4	37.5	46 600
13.0	72.8	37.2	40 500
14.0	71.1	36.8	35 300
15.0	69.5	36.5	30 900
16.0	67.8	36.1	27 000
18.0	64.3	35.1	20 500
20.0	60.7	34.0	15 400
22.0	57.0	32.8	11 200
24.0	53.2	31.3	7 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	94 900
7.5	82.3	41.6	91 900
8.0	81.6	41.6	84 100
8.5	80.9	41.5	77 300
9.0	80.1	41.4	71 200
10.0	78.6	41.2	61 000
11.0	77.2	40.9	52 700
12.0	75.7	40.7	45 700
13.0	74.2	40.4	39 900
14.0	72.6	40.1	34 900
15.0	71.1	39.7	30 500
16.0	69.6	39.4	26 700
18.0	66.4	38.5	20 400
20.0	63.2	37.5	15 400
22.0	59.9	36.4	11 300
24.0	56.4	35.1	7 900



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**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	82 500
8.0	82.2	44.6	81 600
8.5	81.5	44.6	75 100
9.0	80.8	44.5	69 300
10.0	79.5	44.3	59 500
11.0	78.1	44.1	51 500
12.0	76.7	43.8	44 800
13.0	75.3	43.6	39 100
14.0	73.9	43.3	34 200
15.0	72.5	43.0	30 000
16.0	71.1	42.6	26 300
18.0	68.2	41.8	20 200
20.0	65.3	40.9	15 300
22.0	62.2	39.9	11 200
24.0	59.1	38.7	7 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	80 100
8.0	82.7	47.7	79 100
8.5	82.1	47.6	72 900
9.0	81.4	47.6	67 400
10.0	80.2	47.4	58 000
11.0	78.9	47.2	50 300
12.0	77.6	47.0	43 800
13.0	76.3	46.7	38 300
14.0	75.0	46.4	33 600
15.0	73.7	46.2	29 400
16.0	72.4	45.8	25 800
18.0	69.7	45.1	19 800
20.0	67.0	44.3	15 000
22.0	64.3	43.3	11 000
24.0	61.4	42.3	7 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	70 300
9.0	82.0	50.7	65 400
10.0	80.8	50.5	56 400
11.0	79.6	50.3	48 900
12.0	78.4	50.1	42 600
13.0	77.2	49.9	37 300
14.0	76.0	49.6	32 700
15.0	74.8	49.3	28 700
16.0	73.5	49.0	25 200
18.0	71.1	48.4	19 300
20.0	68.5	47.6	14 500
22.0	66.0	46.7	10 600
24.0	63.4	45.7	7 400
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	68 300
9.0	82.5	53.7	63 700
10.0	81.3	53.6	55 000
11.0	80.2	53.4	47 800
12.0	79.1	53.2	41 700
13.0	78.0	53.0	36 500
14.0	76.8	52.8	32 100
15.0	75.7	52.5	28 200
16.0	74.5	52.2	24 700
18.0	72.2	51.6	19 000
20.0	69.9	50.9	14 300
22.0	67.5	50.1	10 500
24.0	65.1	49.2	7 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	60 400
10.0	81.8	56.7	53 400
11.0	80.8	56.5	46 500
12.0	79.7	56.3	40 600
13.0	78.6	56.1	35 600
14.0	77.6	55.9	31 200
15.0	76.5	55.6	27 400
16.0	75.4	55.4	24 100
18.0	73.2	54.8	18 400
20.0	71.0	54.1	13 800
22.0	68.8	53.4	10 100
24.0	66.5	52.5	6 900
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	52 000
11.0	81.3	59.6	45 800
12.0	80.3	59.4	40 100
13.0	79.2	59.2	35 300
14.0	78.2	59.0	31 000
15.0	77.2	58.8	27 300
16.0	76.2	58.5	24 000
18.0	74.2	58.0	18 500
20.0	72.1	57.3	14 000
22.0	70.0	56.6	10 300
24.0	67.8	55.8	7 200