



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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

999
SERIES 1

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 (*).

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 and 67 860 kg counterweight.

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. 8238-AM** for luffing jib capacities.

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



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	165 900 *
5.0	82.5	23.5	161 900 *
5.5	81.1	23.4	146 600 *
6.0	79.7	23.3	132 800
6.5	78.4	23.2	118 200
7.0	77.0	23.1	105 400
7.5	75.6	23.0	95 100
8.0	74.2	22.8	86 300
8.5	72.8	22.6	78 800
9.0	71.3	22.5	72 200
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	155 700 *
5.5	82.2	26.5	143 800
6.0	81.0	26.4	126 600
6.5	79.8	26.3	112 700
7.0	78.6	26.2	101 200
7.5	77.4	26.1	91 500
8.0	76.2	26.0	83 200
8.5	75.0	25.8	76 100
9.0	73.8	25.7	69 900
10.0	71.3	25.3	59 500
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	127 000
6.0	82.0	29.5	121 000
6.5	81.0	29.4	107 900
7.0	79.9	29.3	97 200
7.5	78.9	29.2	88 100
8.0	77.8	29.1	80 400
8.5	76.7	29.0	73 600
9.0	75.6	28.9	67 600
10.0	73.4	28.6	57 800
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	112 900
6.5	81.9	32.5	103 800
7.0	80.9	32.5	93 400
7.5	80.0	32.4	84 900
8.0	79.0	32.3	77 600
8.5	78.1	32.1	71 200
9.0	77.1	32.0	65 600
10.0	75.1	31.7	56 100
11.0	73.2	31.4	48 600
12.0	71.2	31.1	42 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	95 200
7.0	81.8	35.5	90 100
7.5	80.9	35.5	81 800
8.0	80.0	35.4	74 900
8.5	79.2	35.3	68 800
9.0	78.3	35.2	63 500
10.0	76.5	34.9	54 500
11.0	74.8	34.6	47 200
12.0	73.0	34.3	41 200
13.0	71.2	34.0	36 100
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	91 300
7.0	82.5	38.6	86 600
7.5	81.7	38.6	78 800
8.0	80.9	38.5	72 200
8.5	80.1	38.4	66 500
9.0	79.3	38.3	61 400
10.0	77.7	38.0	52 700
11.0	76.1	37.8	45 700
12.0	74.4	37.5	39 900
13.0	72.8	37.2	35 100
14.0	71.1	36.8	30 900
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	78 600
7.5	82.3	41.6	76 200
8.0	81.6	41.6	69 900
8.5	80.9	41.5	64 300
9.0	80.1	41.4	59 500
10.0	78.6	41.2	51 300
11.0	77.2	40.9	44 500
12.0	75.7	40.7	38 900
13.0	74.2	40.4	34 200
14.0	72.6	40.1	30 100
15.0	71.1	39.7	26 700
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	68 400
8.0	82.2	44.6	67 600
8.5	81.5	44.6	62 300
9.0	80.8	44.5	57 700
10.0	79.5	44.3	49 800
11.0	78.1	44.1	43 300
12.0	76.7	43.8	37 900
13.0	75.3	43.6	33 300
14.0	73.9	43.3	29 400
15.0	72.5	43.0	26 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	66 100
8.0	82.7	47.7	65 300
8.5	82.1	47.6	60 300
9.0	81.4	47.6	55 900
10.0	80.2	47.4	48 300
11.0	78.9	47.2	42 000
12.0	77.6	47.0	36 800
13.0	76.3	46.7	32 400
14.0	75.0	46.4	28 600
15.0	73.7	46.2	25 200
16.0	72.4	45.8	22 300
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	57 900
9.0	82.0	50.7	54 000
10.0	80.8	50.5	46 700
11.0	79.6	50.3	40 700
12.0	78.4	50.1	35 600
13.0	77.2	49.9	31 300
14.0	76.0	49.6	27 600
15.0	74.8	49.3	24 300
16.0	73.5	49.0	21 500
18.0	71.1	48.4	16 700



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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

999
SERIES 1

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	166 000 *
5.0	82.5	23.5	161 900 *
5.5	81.1	23.4	146 500 *
6.0	79.7	23.3	132 500
6.5	78.4	23.2	117 700
7.0	77.0	23.1	104 900
7.5	75.6	23.0	94 500
8.0	74.2	22.8	85 600
8.5	72.8	22.6	78 000
9.0	71.3	22.5	71 400
10.0	68.4	22.1	60 500
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	155 800 *
5.5	82.2	26.5	143 600
6.0	81.0	26.4	126 400
6.5	79.8	26.3	112 300
7.0	78.6	26.2	100 700
7.5	77.4	26.1	91 000
8.0	76.2	26.0	82 700
8.5	75.0	25.8	75 500
9.0	73.8	25.7	69 200
10.0	71.3	25.3	58 800
11.0	68.8	24.9	50 500
12.0	66.2	24.5	43 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	126 800
6.0	82.0	29.5	120 700
6.5	81.0	29.4	107 600
7.0	79.9	29.3	96 800
7.5	78.9	29.2	87 700
8.0	77.8	29.1	79 800
8.5	76.7	29.0	73 000
9.0	75.6	28.9	67 100
10.0	73.4	28.6	57 100
11.0	71.2	28.2	49 200
12.0	69.0	27.8	42 700
13.0	66.7	27.4	37 200
14.0	64.4	26.9	32 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	112 700
6.5	81.9	32.5	103 500
7.0	80.9	32.5	93 100
7.5	80.0	32.4	84 500
8.0	79.0	32.3	77 100
8.5	78.1	32.1	70 700
9.0	77.1	32.0	65 000
10.0	75.1	31.7	55 600
11.0	73.2	31.4	47 900
12.0	71.2	31.1	41 700
13.0	69.2	30.7	36 400
14.0	67.1	30.3	32 000
15.0	65.1	29.8	28 200
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	95 000
7.0	81.8	35.5	89 900
7.5	80.9	35.5	81 500
8.0	80.0	35.4	74 500
8.5	79.2	35.3	68 400
9.0	78.3	35.2	63 000
10.0	76.5	34.9	54 000
11.0	74.8	34.6	46 600
12.0	73.0	34.3	40 500
13.0	71.2	34.0	35 500
14.0	69.3	33.6	31 100
15.0	67.5	33.2	27 400
16.0	65.6	32.7	24 100
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	91 200
7.0	82.5	38.6	86 300
7.5	81.7	38.6	78 500
8.0	80.9	38.5	71 900
8.5	80.1	38.4	66 100
9.0	79.3	38.3	61 000
10.0	77.7	38.0	52 300
11.0	76.1	37.8	45 200
12.0	74.4	37.5	39 400
13.0	72.8	37.2	34 500
14.0	71.1	36.8	30 200
15.0	69.5	36.5	26 600
16.0	67.8	36.1	23 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	78 300
7.5	82.3	41.6	75 900
8.0	81.6	41.6	69 500
8.5	80.9	41.5	64 000
9.0	80.1	41.4	59 100
10.0	78.6	41.2	50 800
11.0	77.2	40.9	44 100
12.0	75.7	40.7	38 400
13.0	74.2	40.4	33 700
14.0	72.6	40.1	29 600
15.0	71.1	39.7	26 000
16.0	69.6	39.4	22 900
18.0	66.4	38.5	17 900
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	68 100
8.0	82.2	44.6	67 300
8.5	81.5	44.6	62 000
9.0	80.8	44.5	57 300
10.0	79.5	44.3	49 300
11.0	78.1	44.1	42 800
12.0	76.7	43.8	37 400
13.0	75.3	43.6	32 800
14.0	73.9	43.3	28 800
15.0	72.5	43.0	25 400
16.0	71.1	42.6	22 400
18.0	68.2	41.8	17 400



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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 Jibb

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
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	65 800
8.0	82.7	47.7	65 100
8.5	82.1	47.6	60 000
9.0	81.4	47.6	55 500
10.0	80.2	47.4	47 900
11.0	78.9	47.2	41 600
12.0	77.6	47.0	36 300
13.0	76.3	46.7	31 900
14.0	75.0	46.4	28 000
15.0	73.7	46.2	24 700
16.0	72.4	45.8	21 700
18.0	69.7	45.1	16 800
20.0	67.0	44.3	12 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	57 600
9.0	82.0	50.7	53 700
10.0	80.8	50.5	46 300
11.0	79.6	50.3	40 300
12.0	78.4	50.1	35 200
13.0	77.2	49.9	30 800
14.0	76.0	49.6	27 100
15.0	74.8	49.3	23 800
16.0	73.5	49.0	21 000
18.0	71.1	48.4	16 200
20.0	68.5	47.6	12 300
22.0	66.0	46.7	9 200



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	164 000 *
5.0	82.5	23.5	160 000 *
5.5	81.1	23.4	144 600 *
6.0	79.7	23.3	130 200
6.5	78.4	23.2	115 000
7.0	77.0	23.1	102 500
7.5	75.6	23.0	92 200
8.0	74.2	22.8	83 500
8.5	72.8	22.6	76 000
9.0	71.3	22.5	69 500
10.0	68.4	22.1	58 700
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	153 900 *
5.5	82.2	26.5	140 900
6.0	81.0	26.4	123 900
6.5	79.8	26.3	110 000
7.0	78.6	26.2	98 500
7.5	77.4	26.1	88 900
8.0	76.2	26.0	80 700
8.5	75.0	25.8	73 600
9.0	73.8	25.7	67 400
10.0	71.3	25.3	57 100
11.0	68.8	24.9	48 900
12.0	66.2	24.5	42 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	124 400
6.0	82.0	29.5	118 400
6.5	81.0	29.4	105 400
7.0	79.9	29.3	94 800
7.5	78.9	29.2	85 700
8.0	77.8	29.1	78 000
8.5	76.7	29.0	71 300
9.0	75.6	28.9	65 400
10.0	73.4	28.6	55 500
11.0	71.2	28.2	47 700
12.0	69.0	27.8	41 200
13.0	66.7	27.4	35 900
14.0	64.4	26.9	31 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	110 500
6.5	81.9	32.5	101 500
7.0	80.9	32.5	91 100
7.5	80.0	32.4	82 700
8.0	79.0	32.3	75 400
8.5	78.1	32.1	69 000
9.0	77.1	32.0	63 400
10.0	75.1	31.7	54 000
11.0	73.2	31.4	46 500
12.0	71.2	31.1	40 300
13.0	69.2	30.7	35 100
14.0	67.1	30.3	30 700
15.0	65.1	29.8	26 900
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	93 000
7.0	81.8	35.5	88 000
7.5	80.9	35.5	79 700
8.0	80.0	35.4	72 800
8.5	79.2	35.3	66 700
9.0	78.3	35.2	61 400
10.0	76.5	34.9	52 400
11.0	74.8	34.6	45 200
12.0	73.0	34.3	39 200
13.0	71.2	34.0	34 200
14.0	69.3	33.6	29 900
15.0	67.5	33.2	26 200
16.0	65.6	32.7	23 000
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	89 300
7.0	82.5	38.6	84 500
7.5	81.7	38.6	76 700
8.0	80.9	38.5	70 200
8.5	80.1	38.4	64 500
9.0	79.3	38.3	59 400
10.0	77.7	38.0	50 800
11.0	76.1	37.8	43 900
12.0	74.4	37.5	38 100
13.0	72.8	37.2	33 200
14.0	71.1	36.8	29 100
15.0	69.5	36.5	25 500
16.0	67.8	36.1	22 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	76 700
7.5	82.3	41.6	74 300
8.0	81.6	41.6	68 000
8.5	80.9	41.5	62 500
9.0	80.1	41.4	57 700
10.0	78.6	41.2	49 400
11.0	77.2	40.9	42 700
12.0	75.7	40.7	37 200
13.0	74.2	40.4	32 500
14.0	72.6	40.1	28 400
15.0	71.1	39.7	24 900
16.0	69.6	39.4	21 900
18.0	66.4	38.5	16 800
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	66 500
8.0	82.2	44.6	65 700
8.5	81.5	44.6	60 500
9.0	80.8	44.5	55 900
10.0	79.5	44.3	48 000
11.0	78.1	44.1	41 600
12.0	76.7	43.8	36 200
13.0	75.3	43.6	31 600
14.0	73.9	43.3	27 700
15.0	72.5	43.0	24 300
16.0	71.1	42.6	21 300
18.0	68.2	41.8	16 400



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	64 300
8.0	82.7	47.7	63 600
8.5	82.1	47.6	58 600
9.0	81.4	47.6	54 100
10.0	80.2	47.4	46 600
11.0	78.9	47.2	40 400
12.0	77.6	47.0	35 200
13.0	76.3	46.7	30 700
14.0	75.0	46.4	26 900
15.0	73.7	46.2	23 600
16.0	72.4	45.8	20 700
18.0	69.7	45.1	15 900
20.0	67.0	44.3	12 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	56 200
9.0	82.0	50.7	52 400
10.0	80.8	50.5	45 100
11.0	79.6	50.3	39 100
12.0	78.4	50.1	34 000
13.0	77.2	49.9	29 700
14.0	76.0	49.6	26 100
15.0	74.8	49.3	22 800
16.0	73.5	49.0	20 000
18.0	71.1	48.4	15 200
20.0	68.5	47.6	11 400
22.0	66.0	46.7	8 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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

999
SERIES 1

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	165 500 *
5.0	82.5	23.5	161 400 *
5.5	81.1	23.4	145 800 *
6.0	79.7	23.3	131 200
6.5	78.4	23.2	115 900
7.0	77.0	23.1	103 100
7.5	75.6	23.0	92 700
8.0	74.2	22.8	83 800
8.5	72.8	22.6	76 100
9.0	71.3	22.5	69 500
10.0	68.4	22.1	58 500
11.0	65.5	21.6	49 900
12.0	62.5	21.1	42 500
13.0	59.3	20.5	35 900
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	155 300 *
5.5	82.2	26.5	142 400
6.0	81.0	26.4	125 000
6.5	79.8	26.3	110 900
7.0	78.6	26.2	99 200
7.5	77.4	26.1	89 400
8.0	76.2	26.0	81 100
8.5	75.0	25.8	73 800
9.0	73.8	25.7	67 500
10.0	71.3	25.3	57 000
11.0	68.8	24.9	48 700
12.0	66.2	24.5	41 900
13.0	63.5	24.0	36 300
14.0	60.9	23.4	31 100
15.0	58.1	22.8	26 500
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	125 700
6.0	82.0	29.5	119 600
6.5	81.0	29.4	106 400
7.0	79.9	29.3	95 500
7.5	78.9	29.2	86 300
8.0	77.8	29.1	78 400
8.5	76.7	29.0	71 600
9.0	75.6	28.9	65 600
10.0	73.4	28.6	55 600
11.0	71.2	28.2	47 600
12.0	69.0	27.8	41 000
13.0	66.7	27.4	35 500
14.0	64.4	26.9	30 900
15.0	62.0	26.4	26 900
16.0	59.6	25.8	23 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	111 700
6.5	81.9	32.5	102 400
7.0	80.9	32.5	91 900
7.5	80.0	32.4	83 300
8.0	79.0	32.3	75 900
8.5	78.1	32.1	69 400
9.0	77.1	32.0	63 700
10.0	75.1	31.7	54 200
11.0	73.2	31.4	46 500
12.0	71.2	31.1	40 200
13.0	69.2	30.7	34 900
14.0	67.1	30.3	30 400
15.0	65.1	29.8	26 500
16.0	62.9	29.3	23 200
18.0	58.6	28.1	17 500
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	93 900
7.0	81.8	35.5	88 800
7.5	80.9	35.5	80 400
8.0	80.0	35.4	73 400
8.5	79.2	35.3	67 200
9.0	78.3	35.2	61 800
10.0	76.5	34.9	52 600
11.0	74.8	34.6	45 300
12.0	73.0	34.3	39 200
13.0	71.2	34.0	34 000
14.0	69.3	33.6	29 700
15.0	67.5	33.2	25 900
16.0	65.6	32.7	22 700
18.0	61.7	31.7	17 300
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	90 200
7.0	82.5	38.6	85 400
7.5	81.7	38.6	77 500
8.0	80.9	38.5	70 800
8.5	80.1	38.4	65 000
9.0	79.3	38.3	59 800
10.0	77.7	38.0	51 000
11.0	76.1	37.8	44 000
12.0	74.4	37.5	38 100
13.0	72.8	37.2	33 100
14.0	71.1	36.8	28 900
15.0	69.5	36.5	25 200
16.0	67.8	36.1	22 100
18.0	64.3	35.1	16 800
20.0	60.7	34.0	12 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	77 400
7.5	82.3	41.6	75 000
8.0	81.6	41.6	68 500
8.5	80.9	41.5	63 000
9.0	80.1	41.4	58 100
10.0	78.6	41.2	49 700
11.0	77.2	40.9	42 900
12.0	75.7	40.7	37 200
13.0	74.2	40.4	32 400
14.0	72.6	40.1	28 300
15.0	71.1	39.7	24 700
16.0	69.6	39.4	21 700
18.0	66.4	38.5	16 500
20.0	63.2	37.5	12 400
22.0	59.9	36.4	9 000
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	67 100
8.0	82.2	44.6	66 300
8.5	81.5	44.6	61 000
9.0	80.8	44.5	56 300
10.0	79.5	44.3	48 300
11.0	78.1	44.1	41 700
12.0	76.7	43.8	36 200
13.0	75.3	43.6	31 600
14.0	73.9	43.3	27 600
15.0	72.5	43.0	24 200
16.0	71.1	42.6	21 100
18.0	68.2	41.8	16 100
20.0	65.3	40.9	12 100
22.0	62.2	39.9	8 800
24.0	59.1	38.7	6 000



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	64 900
8.0	82.7	47.7	64 200
8.5	82.1	47.6	59 100
9.0	81.4	47.6	54 600
10.0	80.2	47.4	46 900
11.0	78.9	47.2	40 600
12.0	77.6	47.0	35 300
13.0	76.3	46.7	30 800
14.0	75.0	46.4	26 900
15.0	73.7	46.2	23 500
16.0	72.4	45.8	20 500
18.0	69.7	45.1	15 600
20.0	67.0	44.3	11 600
22.0	64.3	43.3	8 400
24.0	61.4	42.3	5 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	56 700
9.0	82.0	50.7	52 800
10.0	80.8	50.5	45 400
11.0	79.6	50.3	39 300
12.0	78.4	50.1	34 100
13.0	77.2	49.9	29 800
14.0	76.0	49.6	26 000
15.0	74.8	49.3	22 700
16.0	73.5	49.0	19 800
18.0	71.1	48.4	15 000
20.0	68.5	47.6	11 100
22.0	66.0	46.7	7 900
24.0	63.4	45.7	5 300


999
SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	164 200 *
5.0	82.5	23.5	160 100 *
5.5	81.1	23.4	144 500
6.0	79.7	23.3	129 500
6.5	78.4	23.2	113 900
7.0	77.0	23.1	101 500
7.5	75.6	23.0	91 100
8.0	74.2	22.8	82 300
8.5	72.8	22.6	74 700
9.0	71.3	22.5	68 100
10.0	68.4	22.1	57 200
11.0	65.5	21.6	48 600
12.0	62.5	21.1	41 400
13.0	59.3	20.5	34 900
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	153 700
5.5	82.2	26.5	140 500
6.0	81.0	26.4	123 300
6.5	79.8	26.3	109 200
7.0	78.6	26.2	97 700
7.5	77.4	26.1	87 900
8.0	76.2	26.0	79 600
8.5	75.0	25.8	72 500
9.0	73.8	25.7	66 200
10.0	71.3	25.3	55 800
11.0	68.8	24.9	47 600
12.0	66.2	24.5	40 800
13.0	63.5	24.0	35 200
14.0	60.9	23.4	30 100
15.0	58.1	22.8	25 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	124 000
6.0	82.0	29.5	117 900
6.5	81.0	29.4	104 900
7.0	79.9	29.3	94 100
7.5	78.9	29.2	84 900
8.0	77.8	29.1	77 100
8.5	76.7	29.0	70 300
9.0	75.6	28.9	64 400
10.0	73.4	28.6	54 500
11.0	71.2	28.2	46 500
12.0	69.0	27.8	40 000
13.0	66.7	27.4	34 600
14.0	64.4	26.9	30 000
15.0	62.0	26.4	26 100
16.0	59.6	25.8	22 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	110 100
6.5	81.9	32.5	101 000
7.0	80.9	32.5	90 500
7.5	80.0	32.4	82 000
8.0	79.0	32.3	74 600
8.5	78.1	32.1	68 200
9.0	77.1	32.0	62 500
10.0	75.1	31.7	53 100
11.0	73.2	31.4	45 500
12.0	71.2	31.1	39 200
13.0	69.2	30.7	34 000
14.0	67.1	30.3	29 500
15.0	65.1	29.8	25 700
16.0	62.9	29.3	22 400
18.0	58.6	28.1	16 700
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	92 600
7.0	81.8	35.5	87 500
7.5	80.9	35.5	79 100
8.0	80.0	35.4	72 200
8.5	79.2	35.3	66 100
9.0	78.3	35.2	60 700
10.0	76.5	34.9	51 600
11.0	74.8	34.6	44 300
12.0	73.0	34.3	38 200
13.0	71.2	34.0	33 200
14.0	69.3	33.6	28 800
15.0	67.5	33.2	25 100
16.0	65.6	32.7	21 900
18.0	61.7	31.7	16 500
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	88 900
7.0	82.5	38.6	84 100
7.5	81.7	38.6	76 300
8.0	80.9	38.5	69 700
8.5	80.1	38.4	63 900
9.0	79.3	38.3	58 700
10.0	77.7	38.0	50 100
11.0	76.1	37.8	43 000
12.0	74.4	37.5	37 200
13.0	72.8	37.2	32 300
14.0	71.1	36.8	28 100
15.0	69.5	36.5	24 500
16.0	67.8	36.1	21 300
18.0	64.3	35.1	16 100
20.0	60.7	34.0	11 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	76 200
7.5	82.3	41.6	73 900
8.0	81.6	41.6	67 500
8.5	80.9	41.5	61 900
9.0	80.1	41.4	57 000
10.0	78.6	41.2	48 800
11.0	77.2	40.9	42 000
12.0	75.7	40.7	36 400
13.0	74.2	40.4	31 600
14.0	72.6	40.1	27 600
15.0	71.1	39.7	24 000
16.0	69.6	39.4	21 000
18.0	66.4	38.5	15 800
20.0	63.2	37.5	11 800
22.0	59.9	36.4	8 400
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	66 100
8.0	82.2	44.6	65 300
8.5	81.5	44.6	60 000
9.0	80.8	44.5	55 400
10.0	79.5	44.3	47 400
11.0	78.1	44.1	40 900
12.0	76.7	43.8	35 400
13.0	75.3	43.6	30 800
14.0	73.9	43.3	26 900
15.0	72.5	43.0	23 500
16.0	71.1	42.6	20 500
18.0	68.2	41.8	15 400
20.0	65.3	40.9	11 500
22.0	62.2	39.9	8 200
24.0	59.1	38.7	5 500



999 SERIES 1

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	64 000
8.0	82.7	47.7	63 200
8.5	82.1	47.6	58 200
9.0	81.4	47.6	53 700
10.0	80.2	47.4	46 000
11.0	78.9	47.2	39 800
12.0	77.6	47.0	34 500
13.0	76.3	46.7	30 000
14.0	75.0	46.4	26 200
15.0	73.7	46.2	22 800
16.0	72.4	45.8	19 900
18.0	69.7	45.1	15 000
20.0	67.0	44.3	11 100
22.0	64.3	43.3	7 800
24.0	61.4	42.3	5 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	55 800
9.0	82.0	50.7	51 900
10.0	80.8	50.5	44 500
11.0	79.6	50.3	38 500
12.0	78.4	50.1	33 400
13.0	77.2	49.9	29 100
14.0	76.0	49.6	25 300
15.0	74.8	49.3	22 100
16.0	73.5	49.0	19 200
18.0	71.1	48.4	14 400
20.0	68.5	47.6	10 500
22.0	66.0	46.7	7 400


999
SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	162 200 *
5.0	82.5	23.5	158 100 *
5.5	81.1	23.4	142 600
6.0	79.7	23.3	126 600
6.5	78.4	23.2	111 300
7.0	77.0	23.1	99 000
7.5	75.6	23.0	88 700
8.0	74.2	22.8	80 000
8.5	72.8	22.6	72 500
9.0	71.3	22.5	65 900
10.0	68.4	22.1	55 200
11.0	65.5	21.6	46 600
12.0	62.5	21.1	39 600
13.0	59.3	20.5	33 200
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	150 800
5.5	82.2	26.5	137 700
6.0	81.0	26.4	120 700
6.5	79.8	26.3	106 800
7.0	78.6	26.2	95 300
7.5	77.4	26.1	85 700
8.0	76.2	26.0	77 500
8.5	75.0	25.8	70 400
9.0	73.8	25.7	64 200
10.0	71.3	25.3	53 900
11.0	68.8	24.9	45 700
12.0	66.2	24.5	39 000
13.0	63.5	24.0	33 500
14.0	60.9	23.4	28 600
15.0	58.1	22.8	24 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	121 500
6.0	82.0	29.5	115 500
6.5	81.0	29.4	102 500
7.0	79.9	29.3	91 900
7.5	78.9	29.2	82 800
8.0	77.8	29.1	75 100
8.5	76.7	29.0	68 400
9.0	75.6	28.9	62 500
10.0	73.4	28.6	52 600
11.0	71.2	28.2	44 800
12.0	69.0	27.8	38 300
13.0	66.7	27.4	33 000
14.0	64.4	26.9	28 400
15.0	62.0	26.4	24 500
16.0	59.6	25.8	21 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	107 900
6.5	81.9	32.5	98 800
7.0	80.9	32.5	88 500
7.5	80.0	32.4	80 000
8.0	79.0	32.3	72 700
8.5	78.1	32.1	66 300
9.0	77.1	32.0	60 700
10.0	75.1	31.7	51 400
11.0	73.2	31.4	43 800
12.0	71.2	31.1	37 600
13.0	69.2	30.7	32 400
14.0	67.1	30.3	28 000
15.0	65.1	29.8	24 200
16.0	62.9	29.3	20 900
18.0	58.6	28.1	15 400
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	90 500
7.0	81.8	35.5	85 500
7.5	80.9	35.5	77 200
8.0	80.0	35.4	70 300
8.5	79.2	35.3	64 200
9.0	78.3	35.2	58 900
10.0	76.5	34.9	49 900
11.0	74.8	34.6	42 700
12.0	73.0	34.3	36 700
13.0	71.2	34.0	31 700
14.0	69.3	33.6	27 400
15.0	67.5	33.2	23 700
16.0	65.6	32.7	20 500
18.0	61.7	31.7	15 200
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	86 900
7.0	82.5	38.6	82 200
7.5	81.7	38.6	74 400
8.0	80.9	38.5	67 900
8.5	80.1	38.4	62 100
9.0	79.3	38.3	57 000
10.0	77.7	38.0	48 500
11.0	76.1	37.8	41 500
12.0	74.4	37.5	35 700
13.0	72.8	37.2	30 800
14.0	71.1	36.8	26 700
15.0	69.5	36.5	23 100
16.0	67.8	36.1	20 000
18.0	64.3	35.1	14 800
20.0	60.7	34.0	10 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	74 400
7.5	82.3	41.6	72 100
8.0	81.6	41.6	65 700
8.5	80.9	41.5	60 300
9.0	80.1	41.4	55 400
10.0	78.6	41.2	47 200
11.0	77.2	40.9	40 500
12.0	75.7	40.7	34 900
13.0	74.2	40.4	30 200
14.0	72.6	40.1	26 200
15.0	71.1	39.7	22 700
16.0	69.6	39.4	19 700
18.0	66.4	38.5	14 600
20.0	63.2	37.5	10 600
22.0	59.9	36.4	7 300
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	64 400
8.0	82.2	44.6	63 600
8.5	81.5	44.6	58 400
9.0	80.8	44.5	53 800
10.0	79.5	44.3	45 900
11.0	78.1	44.1	39 400
12.0	76.7	43.8	34 000
13.0	75.3	43.6	29 500
14.0	73.9	43.3	25 600
15.0	72.5	43.0	22 200
16.0	71.1	42.6	19 200
18.0	68.2	41.8	14 300
20.0	65.3	40.9	10 300
22.0	62.2	39.9	7 100



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	62 300
8.0	82.7	47.7	61 600
8.5	82.1	47.6	56 600
9.0	81.4	47.6	52 100
10.0	80.2	47.4	44 600
11.0	78.9	47.2	38 300
12.0	77.6	47.0	33 100
13.0	76.3	46.7	28 700
14.0	75.0	46.4	24 900
15.0	73.7	46.2	21 600
16.0	72.4	45.8	18 700
18.0	69.7	45.1	13 800
20.0	67.0	44.3	10 000
22.0	64.3	43.3	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	54 300
9.0	82.0	50.7	50 400
10.0	80.8	50.5	43 100
11.0	79.6	50.3	37 100
12.0	78.4	50.1	32 100
13.0	77.2	49.9	27 800
14.0	76.0	49.6	24 100
15.0	74.8	49.3	20 900
16.0	73.5	49.0	18 000
18.0	71.1	48.4	13 300
20.0	68.5	47.6	9 500
22.0	66.0	46.7	6 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	164 800 *
5.0	82.5	23.5	160 700 *
5.5	81.1	23.4	144 800
6.0	79.7	23.3	129 200
6.5	78.4	23.2	113 400
7.0	77.0	23.1	100 700
7.5	75.6	23.0	90 200
8.0	74.2	22.8	81 200
8.5	72.8	22.6	73 500
9.0	71.3	22.5	66 800
10.0	68.4	22.1	55 700
11.0	65.5	21.6	47 000
12.0	62.5	21.1	39 900
13.0	59.3	20.5	33 300
14.0	56.1	19.8	27 900
15.0	52.7	19.0	23 400
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	154 100
5.5	82.2	26.5	140 700
6.0	81.0	26.4	123 200
6.5	79.8	26.3	108 900
7.0	78.6	26.2	97 200
7.5	77.4	26.1	87 300
8.0	76.2	26.0	78 900
8.5	75.0	25.8	71 600
9.0	73.8	25.7	65 200
10.0	71.3	25.3	54 600
11.0	68.8	24.9	46 200
12.0	66.2	24.5	39 300
13.0	63.5	24.0	33 600
14.0	60.9	23.4	28 800
15.0	58.1	22.8	24 300
16.0	55.2	22.1	20 400
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	124 100
6.0	82.0	29.5	118 000
6.5	81.0	29.4	104 700
7.0	79.9	29.3	93 700
7.5	78.9	29.2	84 400
8.0	77.8	29.1	76 500
8.5	76.7	29.0	69 600
9.0	75.6	28.9	63 500
10.0	73.4	28.6	53 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
11.0	71.2	28.2	45 400
12.0	69.0	27.8	38 700
13.0	66.7	27.4	33 200
14.0	64.4	26.9	28 600
15.0	62.0	26.4	24 600
16.0	59.6	25.8	21 000
18.0	54.5	24.4	14 900
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	110 300
6.5	81.9	32.5	100 900
7.0	80.9	32.5	90 300
7.5	80.0	32.4	81 600
8.0	79.0	32.3	74 100
8.5	78.1	32.1	67 600
9.0	77.1	32.0	61 900
10.0	75.1	31.7	52 200
11.0	73.2	31.4	44 500
12.0	71.2	31.1	38 100
13.0	69.2	30.7	32 800
14.0	67.1	30.3	28 300
15.0	65.1	29.8	24 400
16.0	62.9	29.3	21 000
18.0	58.6	28.1	15 400
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	92 500
7.0	81.8	35.5	87 300
7.5	80.9	35.5	78 900
8.0	80.0	35.4	71 800
8.5	79.2	35.3	65 600
9.0	78.3	35.2	60 100
10.0	76.5	34.9	50 900
11.0	74.8	34.6	43 400
12.0	73.0	34.3	37 300
13.0	71.2	34.0	32 100
14.0	69.3	33.6	27 700
15.0	67.5	33.2	23 900
16.0	65.6	32.7	20 600
18.0	61.7	31.7	15 200
20.0	57.7	30.4	10 900
22.0	53.5	29.0	7 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	88 900
7.0	82.5	38.6	84 000
7.5	81.7	38.6	76 100
8.0	80.9	38.5	69 300
8.5	80.1	38.4	63 500
9.0	79.3	38.3	58 300
10.0	77.7	38.0	49 400
11.0	76.1	37.8	42 300
12.0	74.4	37.5	36 300
13.0	72.8	37.2	31 400
14.0	71.1	36.8	27 100
15.0	69.5	36.5	23 400
16.0	67.8	36.1	20 200
18.0	64.3	35.1	14 900
20.0	60.7	34.0	10 600
22.0	57.0	32.8	7 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	76 200
7.5	82.3	41.6	73 700
8.0	81.6	41.6	67 200
8.5	80.9	41.5	61 600
9.0	80.1	41.4	56 600
10.0	78.6	41.2	48 200
11.0	77.2	40.9	41 300
12.0	75.7	40.7	35 600
13.0	74.2	40.4	30 800
14.0	72.6	40.1	26 600
15.0	71.1	39.7	23 000
16.0	69.6	39.4	19 900
18.0	66.4	38.5	14 700
20.0	63.2	37.5	10 500
22.0	59.9	36.4	7 200



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	65 900
8.0	82.2	44.6	65 100
8.5	81.5	44.6	59 700
9.0	80.8	44.5	55 000
10.0	79.5	44.3	46 900
11.0	78.1	44.1	40 300
12.0	76.7	43.8	34 800
13.0	75.3	43.6	30 100
14.0	73.9	43.3	26 100
15.0	72.5	43.0	22 600
16.0	71.1	42.6	19 500
18.0	68.2	41.8	14 400
20.0	65.3	40.9	10 400
22.0	62.2	39.9	7 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	63 800
8.0	82.7	47.7	63 000
8.5	82.1	47.6	57 900
9.0	81.4	47.6	53 300
10.0	80.2	47.4	45 600
11.0	78.9	47.2	39 200
12.0	77.6	47.0	33 800
13.0	76.3	46.7	29 300
14.0	75.0	46.4	25 400
15.0	73.7	46.2	22 000
16.0	72.4	45.8	19 000
18.0	69.7	45.1	14 000
20.0	67.0	44.3	10 000
22.0	64.3	43.3	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	55 600
9.0	82.0	50.7	51 700
10.0	80.8	50.5	44 100
11.0	79.6	50.3	38 000
12.0	78.4	50.1	32 800
13.0	77.2	49.9	28 400
14.0	76.0	49.6	24 600
15.0	74.8	49.3	21 300
16.0	73.5	49.0	18 400
18.0	71.1	48.4	13 500
20.0	68.5	47.6	9 500
22.0	66.0	46.7	6 300



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	163 200 *
5.0	82.5	23.5	159 000 *
5.5	81.1	23.4	143 200
6.0	79.7	23.3	126 600
6.5	78.4	23.2	111 100
7.0	77.0	23.1	98 500
7.5	75.6	23.0	88 000
8.0	74.2	22.8	79 100
8.5	72.8	22.6	71 500
9.0	71.3	22.5	64 800
10.0	68.4	22.1	53 800
11.0	65.5	21.6	45 100
12.0	62.5	21.1	38 000
13.0	59.3	20.5	31 700
14.0	56.1	19.8	26 300
15.0	52.7	19.0	21 800
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	151 600
5.5	82.2	26.5	138 300
6.0	81.0	26.4	120 900
6.5	79.8	26.3	106 800
7.0	78.6	26.2	95 100
7.5	77.4	26.1	85 300
8.0	76.2	26.0	76 900
8.5	75.0	25.8	69 600
9.0	73.8	25.7	63 300
10.0	71.3	25.3	52 800
11.0	68.8	24.9	44 500
12.0	66.2	24.5	37 600
13.0	63.5	24.0	32 000
14.0	60.9	23.4	27 200
15.0	58.1	22.8	22 800
16.0	55.2	22.1	19 000
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	122 000
6.0	82.0	29.5	115 900
6.5	81.0	29.4	102 700
7.0	79.9	29.3	91 700
7.5	78.9	29.2	82 600
8.0	77.8	29.1	74 700
8.5	76.7	29.0	67 800
9.0	75.6	28.9	61 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	51 700
11.0	71.2	28.2	43 700
12.0	69.0	27.8	37 100
13.0	66.7	27.4	31 700
14.0	64.4	26.9	27 000
15.0	62.0	26.4	23 000
16.0	59.6	25.8	19 600
18.0	54.5	24.4	13 600
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	108 300
6.5	81.9	32.5	99 000
7.0	80.9	32.5	88 500
7.5	80.0	32.4	79 800
8.0	79.0	32.3	72 400
8.5	78.1	32.1	65 900
9.0	77.1	32.0	60 200
10.0	75.1	31.7	50 600
11.0	73.2	31.4	42 900
12.0	71.2	31.1	36 600
13.0	69.2	30.7	31 300
14.0	67.1	30.3	26 800
15.0	65.1	29.8	22 900
16.0	62.9	29.3	19 600
18.0	58.6	28.1	14 100
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	90 800
7.0	81.8	35.5	85 600
7.5	80.9	35.5	77 200
8.0	80.0	35.4	70 100
8.5	79.2	35.3	64 000
9.0	78.3	35.2	58 500
10.0	76.5	34.9	49 400
11.0	74.8	34.6	42 000
12.0	73.0	34.3	35 800
13.0	71.2	34.0	30 700
14.0	69.3	33.6	26 300
15.0	67.5	33.2	22 600
16.0	65.6	32.7	19 300
18.0	61.7	31.7	13 900
20.0	57.7	30.4	9 600
22.0	53.5	29.0	6 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	87 200
7.0	82.5	38.6	82 400
7.5	81.7	38.6	74 400
8.0	80.9	38.5	67 800
8.5	80.1	38.4	61 900
9.0	79.3	38.3	56 700
10.0	77.7	38.0	48 000
11.0	76.1	37.8	40 900
12.0	74.4	37.5	35 000
13.0	72.8	37.2	30 000
14.0	71.1	36.8	25 700
15.0	69.5	36.5	22 100
16.0	67.8	36.1	18 900
18.0	64.3	35.1	13 600
20.0	60.7	34.0	9 400
22.0	57.0	32.8	6 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	74 600
7.5	82.3	41.6	72 100
8.0	81.6	41.6	65 700
8.5	80.9	41.5	60 100
9.0	80.1	41.4	55 200
10.0	78.6	41.2	46 800
11.0	77.2	40.9	40 000
12.0	75.7	40.7	34 300
13.0	74.2	40.4	29 400
14.0	72.6	40.1	25 300
15.0	71.1	39.7	21 800
16.0	69.6	39.4	18 700
18.0	66.4	38.5	13 500
20.0	63.2	37.5	9 400
22.0	59.9	36.4	6 000



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	64 500
8.0	82.2	44.6	63 700
8.5	81.5	44.6	58 300
9.0	80.8	44.5	53 600
10.0	79.5	44.3	45 500
11.0	78.1	44.1	39 000
12.0	76.7	43.8	33 500
13.0	75.3	43.6	28 800
14.0	73.9	43.3	24 800
15.0	72.5	43.0	21 400
16.0	71.1	42.6	18 300
18.0	68.2	41.8	13 200
20.0	65.3	40.9	9 200
22.0	62.2	39.9	5 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	62 400
8.0	82.7	47.7	61 600
8.5	82.1	47.6	56 500
9.0	81.4	47.6	52 000
10.0	80.2	47.4	44 300
11.0	78.9	47.2	37 900
12.0	77.6	47.0	32 600
13.0	76.3	46.7	28 100
14.0	75.0	46.4	24 200
15.0	73.7	46.2	20 800
16.0	72.4	45.8	17 800
18.0	69.7	45.1	12 900
20.0	67.0	44.3	8 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	54 300
9.0	82.0	50.7	50 300
10.0	80.8	50.5	42 800
11.0	79.6	50.3	36 700
12.0	78.4	50.1	31 600
13.0	77.2	49.9	27 200
14.0	76.0	49.6	23 400
15.0	74.8	49.3	20 100
16.0	73.5	49.0	17 200
18.0	71.1	48.4	12 400
20.0	68.5	47.6	8 500


999
SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	161 900 *
5.0	82.5	23.5	157 800 *
5.5	81.1	23.4	142 000
6.0	79.7	23.3	124 700
6.5	78.4	23.2	109 300
7.0	77.0	23.1	96 800
7.5	75.6	23.0	86 400
8.0	74.2	22.8	77 500
8.5	72.8	22.6	69 900
9.0	71.3	22.5	63 300
10.0	68.4	22.1	52 400
11.0	65.5	21.6	43 700
12.0	62.5	21.1	36 700
13.0	59.3	20.5	30 600
14.0	56.1	19.8	25 200
15.0	52.7	19.0	20 700
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	149 700
5.5	82.2	26.5	136 500
6.0	81.0	26.4	119 200
6.5	79.8	26.3	105 100
7.0	78.6	26.2	93 500
7.5	77.4	26.1	83 800
8.0	76.2	26.0	75 500
8.5	75.0	25.8	68 300
9.0	73.8	25.7	62 000
10.0	71.3	25.3	51 500
11.0	68.8	24.9	43 200
12.0	66.2	24.5	36 500
13.0	63.5	24.0	30 800
14.0	60.9	23.4	26 100
15.0	58.1	22.8	21 800
16.0	55.2	22.1	18 000
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	120 400
6.0	82.0	29.5	114 300
6.5	81.0	29.4	101 100
7.0	79.9	29.3	90 300
7.5	78.9	29.2	81 200
8.0	77.8	29.1	73 300
8.5	76.7	29.0	66 500
9.0	75.6	28.9	60 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	50 500
11.0	71.2	28.2	42 600
12.0	69.0	27.8	36 000
13.0	66.7	27.4	30 600
14.0	64.4	26.9	26 000
15.0	62.0	26.4	22 000
16.0	59.6	25.8	18 600
18.0	54.5	24.4	12 700
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	106 800
6.5	81.9	32.5	97 600
7.0	80.9	32.5	87 100
7.5	80.0	32.4	78 500
8.0	79.0	32.3	71 100
8.5	78.1	32.1	64 700
9.0	77.1	32.0	59 000
10.0	75.1	31.7	49 500
11.0	73.2	31.4	41 900
12.0	71.2	31.1	35 600
13.0	69.2	30.7	30 300
14.0	67.1	30.3	25 800
15.0	65.1	29.8	22 000
16.0	62.9	29.3	18 700
18.0	58.6	28.1	13 200
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	89 400
7.0	81.8	35.5	84 300
7.5	80.9	35.5	76 000
8.0	80.0	35.4	68 900
8.5	79.2	35.3	62 800
9.0	78.3	35.2	57 400
10.0	76.5	34.9	48 300
11.0	74.8	34.6	41 000
12.0	73.0	34.3	34 900
13.0	71.2	34.0	29 800
14.0	69.3	33.6	25 400
15.0	67.5	33.2	21 700
16.0	65.6	32.7	18 400
18.0	61.7	31.7	13 000
20.0	57.7	30.4	8 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	86 000
7.0	82.5	38.6	81 200
7.5	81.7	38.6	73 300
8.0	80.9	38.5	66 700
8.5	80.1	38.4	60 800
9.0	79.3	38.3	55 700
10.0	77.7	38.0	47 000
11.0	76.1	37.8	39 900
12.0	74.4	37.5	34 000
13.0	72.8	37.2	29 100
14.0	71.1	36.8	24 900
15.0	69.5	36.5	21 300
16.0	67.8	36.1	18 100
18.0	64.3	35.1	12 800
20.0	60.7	34.0	8 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	73 400
7.5	82.3	41.6	71 000
8.0	81.6	41.6	64 600
8.5	80.9	41.5	59 100
9.0	80.1	41.4	54 200
10.0	78.6	41.2	45 900
11.0	77.2	40.9	39 100
12.0	75.7	40.7	33 400
13.0	74.2	40.4	28 600
14.0	72.6	40.1	24 500
15.0	71.1	39.7	21 000
16.0	69.6	39.4	17 900
18.0	66.4	38.5	12 700
20.0	63.2	37.5	8 700



999 SERIES 1

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	63 400
8.0	82.2	44.6	62 600
8.5	81.5	44.6	57 300
9.0	80.8	44.5	52 600
10.0	79.5	44.3	44 600
11.0	78.1	44.1	38 100
12.0	76.7	43.8	32 600
13.0	75.3	43.6	28 000
14.0	73.9	43.3	24 000
15.0	72.5	43.0	20 600
16.0	71.1	42.6	17 500
18.0	68.2	41.8	12 500
20.0	65.3	40.9	8 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	61 400
8.0	82.7	47.7	60 600
8.5	82.1	47.6	55 600
9.0	81.4	47.6	51 100
10.0	80.2	47.4	43 400
11.0	78.9	47.2	37 100
12.0	77.6	47.0	31 800
13.0	76.3	46.7	27 300
14.0	75.0	46.4	23 400
15.0	73.7	46.2	20 100
16.0	72.4	45.8	17 100
18.0	69.7	45.1	12 200
20.0	67.0	44.3	8 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	53 400
9.0	82.0	50.7	49 400
10.0	80.8	50.5	42 000
11.0	79.6	50.3	35 900
12.0	78.4	50.1	30 800
13.0	77.2	49.9	26 400
14.0	76.0	49.6	22 700
15.0	74.8	49.3	19 400
16.0	73.5	49.0	16 600
18.0	71.1	48.4	11 800
20.0	68.5	47.6	7 900



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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

999
SERIES 1

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

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	160 200 *
5.0	82.5	23.5	156 000 *
5.5	81.1	23.4	140 200
6.0	79.7	23.3	122 000
6.5	78.4	23.2	106 800
7.0	77.0	23.1	94 400
7.5	75.6	23.0	84 100
8.0	74.2	22.8	75 300
8.5	72.8	22.6	67 700
9.0	71.3	22.5	61 100
10.0	68.4	22.1	50 300
11.0	65.5	21.6	41 700
12.0	62.5	21.1	34 800
13.0	59.3	20.5	28 900
14.0	56.1	19.8	23 500
15.0	52.7	19.0	19 100
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	147 100
5.5	82.2	26.5	134 000
6.0	81.0	26.4	116 800
6.5	79.8	26.3	102 800
7.0	78.6	26.2	91 300
7.5	77.4	26.1	81 600
8.0	76.2	26.0	73 300
8.5	75.0	25.8	66 200
9.0	73.8	25.7	60 000
10.0	71.3	25.3	49 600
11.0	68.8	24.9	41 400
12.0	66.2	24.5	34 700
13.0	63.5	24.0	29 100
14.0	60.9	23.4	24 400
15.0	58.1	22.8	20 200
16.0	55.2	22.1	16 500
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	118 100
6.0	82.0	29.5	112 100
6.5	81.0	29.4	99 000
7.0	79.9	29.3	88 200
7.5	78.9	29.2	79 100
8.0	77.8	29.1	71 400
8.5	76.7	29.0	64 600
9.0	75.6	28.9	58 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	48 700
11.0	71.2	28.2	40 900
12.0	69.0	27.8	34 400
13.0	66.7	27.4	29 000
14.0	64.4	26.9	24 400
15.0	62.0	26.4	20 500
16.0	59.6	25.8	17 100
18.0	54.5	24.4	11 300
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	104 700
6.5	81.9	32.5	95 600
7.0	80.9	32.5	85 200
7.5	80.0	32.4	76 700
8.0	79.0	32.3	69 300
8.5	78.1	32.1	62 900
9.0	77.1	32.0	57 300
10.0	75.1	31.7	47 800
11.0	73.2	31.4	40 200
12.0	71.2	31.1	34 000
13.0	69.2	30.7	28 700
14.0	67.1	30.3	24 300
15.0	65.1	29.8	20 500
16.0	62.9	29.3	17 200
18.0	58.6	28.1	11 800
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	87 600
7.0	81.8	35.5	82 500
7.5	80.9	35.5	74 200
8.0	80.0	35.4	67 200
8.5	79.2	35.3	61 100
9.0	78.3	35.2	55 700
10.0	76.5	34.9	46 700
11.0	74.8	34.6	39 400
12.0	73.0	34.3	33 400
13.0	71.2	34.0	28 300
14.0	69.3	33.6	24 000
15.0	67.5	33.2	20 300
16.0	65.6	32.7	17 000
18.0	61.7	31.7	11 700
20.0	57.7	30.4	7 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	84 200
7.0	82.5	38.6	79 400
7.5	81.7	38.6	71 600
8.0	80.9	38.5	65 000
8.5	80.1	38.4	59 200
9.0	79.3	38.3	54 100
10.0	77.7	38.0	45 400
11.0	76.1	37.8	38 400
12.0	74.4	37.5	32 600
13.0	72.8	37.2	27 700
14.0	71.1	36.8	23 500
15.0	69.5	36.5	19 900
16.0	67.8	36.1	16 700
18.0	64.3	35.1	11 500
20.0	60.7	34.0	7 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	71 800
7.5	82.3	41.6	69 400
8.0	81.6	41.6	63 000
8.5	80.9	41.5	57 500
9.0	80.1	41.4	52 600
10.0	78.6	41.2	44 400
11.0	77.2	40.9	37 600
12.0	75.7	40.7	32 000
13.0	74.2	40.4	27 200
14.0	72.6	40.1	23 200
15.0	71.1	39.7	19 700
16.0	69.6	39.4	16 600
18.0	66.4	38.5	11 500
20.0	63.2	37.5	7 400



999 SERIES 1

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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	61 900
8.0	82.2	44.6	61 100
8.5	81.5	44.6	55 800
9.0	80.8	44.5	51 100
10.0	79.5	44.3	43 200
11.0	78.1	44.1	36 700
12.0	76.7	43.8	31 300
13.0	75.3	43.6	26 700
14.0	73.9	43.3	22 800
15.0	72.5	43.0	19 300
16.0	71.1	42.6	16 300
18.0	68.2	41.8	11 300
20.0	65.3	40.9	7 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	59 900
8.0	82.7	47.7	59 200
8.5	82.1	47.6	54 100
9.0	81.4	47.6	49 600
10.0	80.2	47.4	42 000
11.0	78.9	47.2	35 800
12.0	77.6	47.0	30 500
13.0	76.3	46.7	26 000
14.0	75.0	46.4	22 200
15.0	73.7	46.2	18 900
16.0	72.4	45.8	15 900
18.0	69.7	45.1	11 000
20.0	67.0	44.3	7 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	52 000
9.0	82.0	50.7	48 100
10.0	80.8	50.5	40 700
11.0	79.6	50.3	34 600
12.0	78.4	50.1	29 500
13.0	77.2	49.9	25 200
14.0	76.0	49.6	21 500
15.0	74.8	49.3	18 300
16.0	73.5	49.0	15 400
18.0	71.1	48.4	10 600
20.0	68.5	47.6	6 700



Liftcrane Boom Capacities With Luffing Jib Attached

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

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

999
SERIES 1

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

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	158 600 *
5.0	82.5	23.5	154 400 *
5.5	81.1	23.4	138 100
6.0	79.7	23.3	119 500
6.5	78.4	23.2	104 400
7.0	77.0	23.1	92 100
7.5	75.6	23.0	81 900
8.0	74.2	22.8	73 100
8.5	72.8	22.6	65 600
9.0	71.3	22.5	59 100
10.0	68.4	22.1	48 400
11.0	65.5	21.6	39 900
12.0	62.5	21.1	33 000
13.0	59.3	20.5	27 200
14.0	56.1	19.8	22 000
15.0	52.7	19.0	17 600
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	144 600
5.5	82.2	26.5	131 600
6.0	81.0	26.4	114 500
6.5	79.8	26.3	100 700
7.0	78.6	26.2	89 200
7.5	77.4	26.1	79 600
8.0	76.2	26.0	71 400
8.5	75.0	25.8	64 300
9.0	73.8	25.7	58 100
10.0	71.3	25.3	47 800
11.0	68.8	24.9	39 700
12.0	66.2	24.5	33 000
13.0	63.5	24.0	27 500
14.0	60.9	23.4	22 800
15.0	58.1	22.8	18 800
16.0	55.2	22.1	15 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	115 900
6.0	82.0	29.5	109 900
6.5	81.0	29.4	97 000
7.0	79.9	29.3	86 300
7.5	78.9	29.2	77 300
8.0	77.8	29.1	69 600
8.5	76.7	29.0	62 800
9.0	75.6	28.9	56 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
10.0	73.4	28.6	47 100
11.0	71.2	28.2	39 300
12.0	69.0	27.8	32 800
13.0	66.7	27.4	27 500
14.0	64.4	26.9	22 900
15.0	62.0	26.4	19 000
16.0	59.6	25.8	15 700
18.0	54.5	24.4	10 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	102 800
6.5	81.9	32.5	93 700
7.0	80.9	32.5	83 400
7.5	80.0	32.4	74 900
8.0	79.0	32.3	67 600
8.5	78.1	32.1	61 200
9.0	77.1	32.0	55 600
10.0	75.1	31.7	46 300
11.0	73.2	31.4	38 700
12.0	71.2	31.1	32 500
13.0	69.2	30.7	27 300
14.0	67.1	30.3	22 900
15.0	65.1	29.8	19 200
16.0	62.9	29.3	15 900
18.0	58.6	28.1	10 500
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	85 800
7.0	81.8	35.5	80 800
7.5	80.9	35.5	72 500
8.0	80.0	35.4	65 600
8.5	79.2	35.3	59 500
9.0	78.3	35.2	54 200
10.0	76.5	34.9	45 200
11.0	74.8	34.6	38 000
12.0	73.0	34.3	32 000
13.0	71.2	34.0	27 000
14.0	69.3	33.6	22 700
15.0	67.5	33.2	19 000
16.0	65.6	32.7	15 800
18.0	61.7	31.7	10 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	82 500
7.0	82.5	38.6	77 800
7.5	81.7	38.6	70 000
8.0	80.9	38.5	63 500
8.5	80.1	38.4	57 700
9.0	79.3	38.3	52 600
10.0	77.7	38.0	44 000
11.0	76.1	37.8	37 100
12.0	74.4	37.5	31 300
13.0	72.8	37.2	26 400
14.0	71.1	36.8	22 300
15.0	69.5	36.5	18 700
16.0	67.8	36.1	15 600
18.0	64.3	35.1	10 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	70 300
7.5	82.3	41.6	67 900
8.0	81.6	41.6	61 600
8.5	80.9	41.5	56 100
9.0	80.1	41.4	51 300
10.0	78.6	41.2	43 000
11.0	77.2	40.9	36 300
12.0	75.7	40.7	30 800
13.0	74.2	40.4	26 000
14.0	72.6	40.1	22 000
15.0	71.1	39.7	18 500
16.0	69.6	39.4	15 400
18.0	66.4	38.5	10 400
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	60 500
8.0	82.2	44.6	59 700
8.5	81.5	44.6	54 500
9.0	80.8	44.5	49 800
10.0	79.5	44.3	41 900
11.0	78.1	44.1	35 500
12.0	76.7	43.8	30 100
13.0	75.3	43.6	25 500
14.0	73.9	43.3	21 600
15.0	72.5	43.0	18 200
16.0	71.1	42.6	15 200
18.0	68.2	41.8	10 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82 or 22EL
Luffing Jib No. 135
67 860 kg 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
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	58 600
8.0	82.7	47.7	57 800
8.5	82.1	47.6	52 800
9.0	81.4	47.6	48 400
10.0	80.2	47.4	40 800
11.0	78.9	47.2	34 500
12.0	77.6	47.0	29 300
13.0	76.3	46.7	24 900
14.0	75.0	46.4	21 100
15.0	73.7	46.2	17 800
16.0	72.4	45.8	14 900
18.0	69.7	45.1	10 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	50 700
9.0	82.0	50.7	46 800
10.0	80.8	50.5	39 500
11.0	79.6	50.3	33 500
12.0	78.4	50.1	28 400
13.0	77.2	49.9	24 100
14.0	76.0	49.6	20 400
15.0	74.8	49.3	17 200
16.0	73.5	49.0	14 400
18.0	71.1	48.4	9 600