

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 1

European Standards
10 m/s Maximum Wind

Boom No. 78, Luffing Jib No. 139
47 630 kg Counterweight
360 Degree Rating

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with DIN 15018, ISO 4305 (1.25P + 0.1F), 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. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. 179420**, Wire Rope Specification chart **No. 7993-A** and Luffing Jib Raising Procedure chart **No. 7994-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

Machine may be operated in winds up to 10 m/s provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. A surface area of 1.2 m²/t of rated load has been included in capacity determination. Wind will have a considerable effect on

a load. Loads with a surface area greater than 1.2 m²/t of rated load must be compensated for accordingly by reducing load ratings, reducing operating speeds or by a combination of both. Recommend stopping operation when wind is above 10 m/s and lowering boom and luffing jib to ground when wind is above 22 m/s.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart.

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 7 544 mm crawlers, 965 mm or 1 219 mm treads, two 305 mm boom hoist cylinders, 7 925 mm mast, four 32 mm boom pendants, 7 part luffing jib hoist reeving, two 38 mm luffing jib pendants, two 35 mm luffing jib backstays, and 47 630 kg counterweight.

Maximum capacity on 26 mm wire rope is 13 380 kg per line or 9 070 kg per line when auxiliary drum is used.

Consult chart **No. 7988-AM** for luffing jib capacities.

Luffing Jib Position During Operation	
Luffing Jib Length - Meters	Boom To Luffing Jib Angle
21.3m	145 Degrees
24.4m - 27.4m	150 Degrees
30.5m - 36.6m	160 Degrees
39.6m - 51.8m	168 Degrees

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21.3m (70 Ft.) Luffing Jib, Attached at 145 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.3	82.7	23.4	124 500 *
4.5	82.0	23.4	116 100
5.0	80.7	23.3	99 300
5.5	79.3	23.2	86 100
6.0	77.9	23.1	75 600
7.0	75.2	22.8	59 700
8.0	72.3	22.5	48 500
9.0	69.5	22.1	40 000
10.0	66.6	21.7	33 500
11.0	63.6	21.2	28 300
12.0	60.5	20.6	23 900
14.0	54.0	19.3	16 600
16.0	46.9	17.6	11 500
18.0	38.8	15.3	7 900
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	107 000
5.0	81.9	26.4	94 200
5.5	80.7	26.3	82 200
6.0	79.5	26.2	72 500
7.0	77.1	26.0	57 700
8.0	74.6	25.7	47 100
9.0	72.2	25.4	39 000
10.0	69.6	25.0	32 800
11.0	67.1	24.6	27 700
12.0	64.5	24.1	23 600
14.0	59.1	23.0	17 100
16.0	53.4	21.6	11 900
18.0	47.2	19.9	8 200
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	92 300
5.0	82.8	29.5	89 300
5.5	81.7	29.4	78 200
6.0	80.6	29.3	69 300
7.0	78.5	29.1	55 600
8.0	76.4	28.9	45 600
9.0	74.2	28.6	37 900
10.0	72.0	28.3	31 900
11.0	69.8	27.9	27 100
12.0	67.5	27.5	23 100
14.0	62.9	26.5	16 900
16.0	58.0	25.3	12 300
18.0	52.9	23.9	8 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	75 000
6.0	81.6	32.4	66 400
7.0	79.7	32.2	53 600
8.0	77.8	32.0	44 100
9.0	75.8	31.7	36 900
10.0	73.9	31.5	31 100
11.0	71.9	31.1	26 400
12.0	69.9	30.8	22 500
14.0	65.8	29.9	16 500
16.0	61.6	28.9	12 000
18.0	57.2	27.7	8 600
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	66 300
6.0	82.4	35.5	63 300
7.0	80.6	35.3	51 300
8.0	78.9	35.1	42 400
9.0	77.1	34.9	35 500
10.0	75.4	34.6	30 000
11.0	73.6	34.3	25 500
12.0	71.8	34.0	21 800
14.0	68.1	33.2	15 900
16.0	64.4	32.3	11 600
18.0	60.5	31.3	8 200
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	59 500
7.0	81.4	38.4	49 500
8.0	79.8	38.2	41 000
9.0	78.2	38.0	34 500
10.0	76.6	37.8	29 200
11.0	75.0	37.5	24 900
12.0	73.4	37.2	21 300
14.0	70.1	36.5	15 600
16.0	66.7	35.7	11 400
18.0	63.2	34.7	8 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	50 400
7.0	82.1	41.5	47 700
8.0	80.6	41.3	39 600
9.0	79.1	41.1	33 300
10.0	77.7	40.9	28 200
11.0	76.2	40.7	24 100
12.0	74.7	40.4	20 600
14.0	71.6	39.8	15 100
16.0	68.6	39.0	11 000
18.0	65.4	38.1	7 700
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	43 300
8.0	81.3	44.4	38 300
9.0	79.9	44.2	32 300
10.0	78.6	44.0	27 400
11.0	77.2	43.8	23 400
12.0	75.8	43.6	20 000
14.0	73.0	43.0	14 700
16.0	70.2	42.3	10 600
18.0	67.3	41.5	7 500

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Capacities based on structural competence
are denoted by an asterisk (*).

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			
4.3	82.7	23.4	123 300 *
4.5	82.0	23.4	114 400
5.0	80.7	23.3	97 500
5.5	79.3	23.2	84 400
6.0	77.9	23.1	73 900
7.0	75.2	22.8	58 100
8.0	72.3	22.5	46 900
9.0	69.5	22.1	38 500
10.0	66.6	21.7	32 000
11.0	63.6	21.2	26 800
12.0	60.5	20.6	22 500
14.0	54.0	19.3	15 400
16.0	46.9	17.6	10 300
18.0	38.8	15.3	6 600
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	105 400
5.0	81.9	26.4	92 600
5.5	80.7	26.3	80 600
6.0	79.5	26.2	70 900
7.0	77.1	26.0	56 300
8.0	74.6	25.7	45 700
9.0	72.2	25.4	37 700
10.0	69.6	25.0	31 400
11.0	67.1	24.6	26 400
12.0	64.5	24.1	22 300
14.0	59.1	23.0	15 900
16.0	53.4	21.6	10 800
18.0	47.2	19.9	7 100
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	90 800
5.0	82.8	29.5	87 800
5.5	81.7	29.4	76 700
6.0	80.6	29.3	67 800
7.0	78.5	29.1	54 200
8.0	76.4	28.9	44 200
9.0	74.2	28.6	36 600
10.0	72.0	28.3	30 700
11.0	69.8	27.9	25 800
12.0	67.5	27.5	21 800
14.0	62.9	26.5	15 700
16.0	58.0	25.3	11 100
18.0	52.9	23.9	7 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	73 600
6.0	81.6	32.4	65 100
7.0	79.7	32.2	52 300
8.0	77.8	32.0	42 900
9.0	75.8	31.7	35 600
10.0	73.9	31.5	29 900
11.0	71.9	31.1	25 200
12.0	69.9	30.8	21 400
14.0	65.8	29.9	15 300
16.0	61.6	28.9	10 900
18.0	57.2	27.7	7 500
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	65 000
6.0	82.4	35.5	62 000
7.0	80.6	35.3	50 000
8.0	78.9	35.1	41 200
9.0	77.1	34.9	34 300
10.0	75.4	34.6	28 800
11.0	73.6	34.3	24 400
12.0	71.8	34.0	20 600
14.0	68.1	33.2	14 900
16.0	64.4	32.3	10 500
18.0	60.5	31.3	7 200
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	58 300
7.0	81.4	38.4	48 300
8.0	79.8	38.2	39 900
9.0	78.2	38.0	33 400
10.0	76.6	37.8	28 100
11.0	75.0	37.5	23 800
12.0	73.4	37.2	20 200
14.0	70.1	36.5	14 600
16.0	66.7	35.7	10 400
18.0	63.2	34.7	7 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	49 300
7.0	82.1	41.5	46 600
8.0	80.6	41.3	38 500
9.0	79.1	41.1	32 200
10.0	77.7	40.9	27 200
11.0	76.2	40.7	23 100
12.0	74.7	40.4	19 600
14.0	71.6	39.8	14 100
16.0	68.6	39.0	10 000
18.0	65.4	38.1	6 800
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	42 200
8.0	81.3	44.4	37 300
9.0	79.9	44.2	31 200
10.0	78.6	44.0	26 400
11.0	77.2	43.8	22 400
12.0	75.8	43.6	19 000
14.0	73.0	43.0	13 700
16.0	70.2	42.3	9 700
18.0	67.3	41.5	6 500

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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			
4.3	82.7	23.4	120 500
4.5	82.0	23.4	111 300
5.0	80.7	23.3	94 500
5.5	79.3	23.2	81 600
6.0	77.9	23.1	71 300
7.0	75.2	22.8	55 800
8.0	72.3	22.5	44 900
9.0	69.5	22.1	36 600
10.0	66.6	21.7	30 200
11.0	63.6	21.2	25 100
12.0	60.5	20.6	20 900
14.0	54.0	19.3	14 000
16.0	46.9	17.6	9 100
18.0	38.8	15.3	5 500
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	102 300
5.0	81.9	26.4	89 800
5.5	80.7	26.3	78 000
6.0	79.5	26.2	68 500
7.0	77.1	26.0	54 100
8.0	74.6	25.7	43 700
9.0	72.2	25.4	35 900
10.0	69.6	25.0	29 700
11.0	67.1	24.6	24 800
12.0	64.5	24.1	20 700
14.0	59.1	23.0	14 500
16.0	53.4	21.6	9 600
18.0	47.2	19.9	6 000
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	88 100
5.0	82.8	29.5	85 200
5.5	81.7	29.4	74 300
6.0	80.6	29.3	65 600
7.0	78.5	29.1	52 100
8.0	76.4	28.9	42 400
9.0	74.2	28.6	34 900
10.0	72.0	28.3	29 100
11.0	69.8	27.9	24 300
12.0	67.5	27.5	20 400
14.0	62.9	26.5	14 300
16.0	58.0	25.3	9 900
18.0	52.9	23.9	6 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	71 300
6.0	81.6	32.4	62 900
7.0	79.7	32.2	50 300
8.0	77.8	32.0	41 100
9.0	75.8	31.7	34 000
10.0	73.9	31.5	28 300
11.0	71.9	31.1	23 800
12.0	69.9	30.8	20 000
14.0	65.8	29.9	14 100
16.0	61.6	28.9	9 700
18.0	57.2	27.7	6 400
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	62 900
6.0	82.4	35.5	60 000
7.0	80.6	35.3	48 200
8.0	78.9	35.1	39 500
9.0	77.1	34.9	32 700
10.0	75.4	34.6	27 300
11.0	73.6	34.3	23 000
12.0	71.8	34.0	19 300
14.0	68.1	33.2	13 600
16.0	64.4	32.3	9 400
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	56 300
7.0	81.4	38.4	46 500
8.0	79.8	38.2	38 300
9.0	78.2	38.0	31 800
10.0	76.6	37.8	26 700
11.0	75.0	37.5	22 400
12.0	73.4	37.2	18 900
14.0	70.1	36.5	13 400
16.0	66.7	35.7	9 200
18.0	63.2	34.7	6 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	47 500
7.0	82.1	41.5	44 900
8.0	80.6	41.3	36 900
9.0	79.1	41.1	30 800
10.0	77.7	40.9	25 800
11.0	76.2	40.7	21 800
12.0	74.7	40.4	18 300
14.0	71.6	39.8	13 000
16.0	68.6	39.0	8 900
18.0	65.4	38.1	5 800
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	40 600
8.0	81.3	44.4	35 700
9.0	79.9	44.2	29 800
10.0	78.6	44.0	25 100
11.0	77.2	43.8	21 100
12.0	75.8	43.6	17 800
14.0	73.0	43.0	12 600
16.0	70.2	42.3	8 600
18.0	67.3	41.5	5 500

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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			
4.3	82.7	23.4	122 400
4.5	82.0	23.4	112 900
5.0	80.7	23.3	95 700
5.5	79.3	23.2	82 500
6.0	77.9	23.1	72 000
7.0	75.2	22.8	56 100
8.0	72.3	22.5	44 800
9.0	69.5	22.1	36 400
10.0	66.6	21.7	29 800
11.0	63.6	21.2	24 500
12.0	60.5	20.6	20 200
14.0	54.0	19.3	13 300
16.0	46.9	17.6	8 200
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	104 000
5.0	81.9	26.4	91 100
5.5	80.7	26.3	79 000
6.0	79.5	26.2	69 300
7.0	77.1	26.0	54 500
8.0	74.6	25.7	43 800
9.0	72.2	25.4	35 800
10.0	69.6	25.0	29 500
11.0	67.1	24.6	24 400
12.0	64.5	24.1	20 300
14.0	59.1	23.0	13 800
16.0	53.4	21.6	9 000
18.0	47.2	19.9	5 200
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	89 500
5.0	82.8	29.5	86 500
5.5	81.7	29.4	75 400
6.0	80.6	29.3	66 400
7.0	78.5	29.1	52 600
8.0	76.4	28.9	42 600
9.0	74.2	28.6	34 900
10.0	72.0	28.3	28 900
11.0	69.8	27.9	24 100
12.0	67.5	27.5	20 000
14.0	62.9	26.5	13 800
16.0	58.0	25.3	9 200
18.0	52.9	23.9	5 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	72 400
6.0	81.6	32.4	63 800
7.0	79.7	32.2	50 900
8.0	77.8	32.0	41 400
9.0	75.8	31.7	34 100
10.0	73.9	31.5	28 300
11.0	71.9	31.1	23 600
12.0	69.9	30.8	19 700
14.0	65.8	29.9	13 700
16.0	61.6	28.9	9 200
18.0	57.2	27.7	5 700
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	63 800
6.0	82.4	35.5	60 800
7.0	80.6	35.3	48 800
8.0	78.9	35.1	39 800
9.0	77.1	34.9	32 900
10.0	75.4	34.6	27 400
11.0	73.6	34.3	22 900
12.0	71.8	34.0	19 100
14.0	68.1	33.2	13 300
16.0	64.4	32.3	8 900
18.0	60.5	31.3	5 500
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	57 100
7.0	81.4	38.4	47 100
8.0	79.8	38.2	38 700
9.0	78.2	38.0	32 000
10.0	76.6	37.8	26 700
11.0	75.0	37.5	22 400
12.0	73.4	37.2	18 800
14.0	70.1	36.5	13 100
16.0	66.7	35.7	8 800
18.0	63.2	34.7	5 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	48 200
7.0	82.1	41.5	45 500
8.0	80.6	41.3	37 300
9.0	79.1	41.1	31 000
10.0	77.7	40.9	25 900
11.0	76.2	40.7	21 800
12.0	74.7	40.4	18 200
14.0	71.6	39.8	12 700
16.0	68.6	39.0	8 600
18.0	65.4	38.1	5 300
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	41 200
8.0	81.3	44.4	36 100
9.0	79.9	44.2	30 100
10.0	78.6	44.0	25 200
11.0	77.2	43.8	21 200
12.0	75.8	43.6	17 800
14.0	73.0	43.0	12 400
16.0	70.2	42.3	8 300
18.0	67.3	41.5	5 200

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47 630 kg Counterweight
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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			
4.3	82.7	23.4	120 000
4.5	82.0	23.4	110 600
5.0	80.7	23.3	93 600
5.5	79.3	23.2	80 600
6.0	77.9	23.1	70 200
7.0	75.2	22.8	54 500
8.0	72.3	22.5	43 400
9.0	69.5	22.1	35 000
10.0	66.6	21.7	28 500
11.0	63.6	21.2	23 300
12.0	60.5	20.6	19 100
14.0	54.0	19.3	12 300
16.0	46.9	17.6	7 300
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	101 800
5.0	81.9	26.4	89 100
5.5	80.7	26.3	77 200
6.0	79.5	26.2	67 600
7.0	77.1	26.0	53 000
8.0	74.6	25.7	42 400
9.0	72.2	25.4	34 500
10.0	69.6	25.0	28 200
11.0	67.1	24.6	23 200
12.0	64.5	24.1	19 200
14.0	59.1	23.0	12 800
16.0	53.4	21.6	8 100
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	87 600
5.0	82.8	29.5	84 700
5.5	81.7	29.4	73 700
6.0	80.6	29.3	64 800
7.0	78.5	29.1	51 200
8.0	76.4	28.9	41 300
9.0	74.2	28.6	33 700
10.0	72.0	28.3	27 800
11.0	69.8	27.9	23 000
12.0	67.5	27.5	19 000
14.0	62.9	26.5	12 800
16.0	58.0	25.3	8 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	70 800
6.0	81.6	32.4	62 300
7.0	79.7	32.2	49 500
8.0	77.8	32.0	40 100
9.0	75.8	31.7	32 900
10.0	73.9	31.5	27 200
11.0	71.9	31.1	22 600
12.0	69.9	30.8	18 800
14.0	65.8	29.9	12 800
16.0	61.6	28.9	8 300
18.0	57.2	27.7	4 900
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	62 400
6.0	82.4	35.5	59 400
7.0	80.6	35.3	47 500
8.0	78.9	35.1	38 600
9.0	77.1	34.9	31 800
10.0	75.4	34.6	26 300
11.0	73.6	34.3	21 900
12.0	71.8	34.0	18 200
14.0	68.1	33.2	12 400
16.0	64.4	32.3	8 100
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	55 800
7.0	81.4	38.4	45 900
8.0	79.8	38.2	37 500
9.0	78.2	38.0	31 000
10.0	76.6	37.8	25 800
11.0	75.0	37.5	21 500
12.0	73.4	37.2	17 900
14.0	70.1	36.5	12 300
16.0	66.7	35.7	8 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	47 000
7.0	82.1	41.5	44 300
8.0	80.6	41.3	36 200
9.0	79.1	41.1	30 000
10.0	77.7	40.9	25 000
11.0	76.2	40.7	20 800
12.0	74.7	40.4	17 400
14.0	71.6	39.8	11 900
16.0	68.6	39.0	7 800
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	40 100
8.0	81.3	44.4	35 100
9.0	79.9	44.2	29 100
10.0	78.6	44.0	24 300
11.0	77.2	43.8	20 300
12.0	75.8	43.6	16 900
14.0	73.0	43.0	11 600
16.0	70.2	42.3	7 600

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 1

Boom No. 78, Luffing Jib No. 139
47 630 kg Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*).

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			
4.3	82.7	23.4	116 400
4.5	82.0	23.4	107 200
5.0	80.7	23.3	90 500
5.5	79.3	23.2	77 700
6.0	77.9	23.1	67 400
7.0	75.2	22.8	52 000
8.0	72.3	22.5	41 000
9.0	69.5	22.1	32 800
10.0	66.6	21.7	26 400
11.0	63.6	21.2	21 300
12.0	60.5	20.6	17 200
14.0	54.0	19.3	10 700
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	98 700
5.0	81.9	26.4	86 200
5.5	80.7	26.3	74 500
6.0	79.5	26.2	65 000
7.0	77.1	26.0	50 600
8.0	74.6	25.7	40 300
9.0	72.2	25.4	32 400
10.0	69.6	25.0	26 300
11.0	67.1	24.6	21 400
12.0	64.5	24.1	17 300
14.0	59.1	23.0	11 100
16.0	53.4	21.6	6 600
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	84 900
5.0	82.8	29.5	82 000
5.5	81.7	29.4	71 100
6.0	80.6	29.3	62 400
7.0	78.5	29.1	49 000
8.0	76.4	28.9	39 200
9.0	74.2	28.6	31 800
10.0	72.0	28.3	25 900
11.0	69.8	27.9	21 200
12.0	67.5	27.5	17 300
14.0	62.9	26.5	11 300
16.0	58.0	25.3	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	68 400
6.0	81.6	32.4	60 000
7.0	79.7	32.2	47 400
8.0	77.8	32.0	38 200
9.0	75.8	31.7	31 100
10.0	73.9	31.5	25 500
11.0	71.9	31.1	20 900
12.0	69.9	30.8	17 100
14.0	65.8	29.9	11 200
16.0	61.6	28.9	6 900
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	60 200
6.0	82.4	35.5	57 300
7.0	80.6	35.3	45 500
8.0	78.9	35.1	36 800
9.0	77.1	34.9	30 000
10.0	75.4	34.6	24 700
11.0	73.6	34.3	20 300
12.0	71.8	34.0	16 600
14.0	68.1	33.2	10 900
16.0	64.4	32.3	6 700
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	53 800
7.0	81.4	38.4	44 000
8.0	79.8	38.2	35 700
9.0	78.2	38.0	29 300
10.0	76.6	37.8	24 100
11.0	75.0	37.5	19 900
12.0	73.4	37.2	16 400
14.0	70.1	36.5	10 900
16.0	66.7	35.7	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	45 100
7.0	82.1	41.5	42 500
8.0	80.6	41.3	34 500
9.0	79.1	41.1	28 400
10.0	77.7	40.9	23 400
11.0	76.2	40.7	19 400
12.0	74.7	40.4	16 000
14.0	71.6	39.8	10 600
16.0	68.6	39.0	6 500
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	38 400
8.0	81.3	44.4	33 400
9.0	79.9	44.2	27 500
10.0	78.6	44.0	22 800
11.0	77.2	43.8	18 900
12.0	75.8	43.6	15 500
14.0	73.0	43.0	10 300
16.0	70.2	42.3	6 300

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 1

Boom No. 78, Luffing Jib No. 139
47 630 kg Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*).

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			
4.3	82.7	23.4	120 400
4.5	82.0	23.4	110 800
5.0	80.7	23.3	93 400
5.5	79.3	23.2	80 100
6.0	77.9	23.1	69 400
7.0	75.2	22.8	53 400
8.0	72.3	22.5	42 000
9.0	69.5	22.1	33 400
10.0	66.6	21.7	26 800
11.0	63.6	21.2	21 500
12.0	60.5	20.6	17 100
14.0	54.0	19.3	10 400
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	102 100
5.0	81.9	26.4	89 100
5.5	80.7	26.3	76 900
6.0	79.5	26.2	67 100
7.0	77.1	26.0	52 100
8.0	74.6	25.7	41 400
9.0	72.2	25.4	33 200
10.0	69.6	25.0	26 800
11.0	67.1	24.6	21 700
12.0	64.5	24.1	17 500
14.0	59.1	23.0	11 000
16.0	53.4	21.6	6 200
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	87 800
5.0	82.8	29.5	84 800
5.5	81.7	29.4	73 600
6.0	80.6	29.3	64 500
7.0	78.5	29.1	50 500
8.0	76.4	28.9	40 400
9.0	74.2	28.6	32 600
10.0	72.0	28.3	26 600
11.0	69.8	27.9	21 600
12.0	67.5	27.5	17 600
14.0	62.9	26.5	11 300
16.0	58.0	25.3	6 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	70 800
6.0	81.6	32.4	62 100
7.0	79.7	32.2	49 000
8.0	77.8	32.0	39 500
9.0	75.8	31.7	32 000
10.0	73.9	31.5	26 200
11.0	71.9	31.1	21 400
12.0	69.9	30.8	17 500
14.0	65.8	29.9	11 300
16.0	61.6	28.9	6 800
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	62 400
6.0	82.4	35.5	59 300
7.0	80.6	35.3	47 100
8.0	78.9	35.1	38 000
9.0	77.1	34.9	31 000
10.0	75.4	34.6	25 400
11.0	73.6	34.3	20 900
12.0	71.8	34.0	17 100
14.0	68.1	33.2	11 200
16.0	64.4	32.3	6 700
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	55 700
7.0	81.4	38.4	45 600
8.0	79.8	38.2	37 000
9.0	78.2	38.0	30 300
10.0	76.6	37.8	24 900
11.0	75.0	37.5	20 600
12.0	73.4	37.2	16 900
14.0	70.1	36.5	11 200
16.0	66.7	35.7	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	46 800
7.0	82.1	41.5	44 100
8.0	80.6	41.3	35 800
9.0	79.1	41.1	29 400
10.0	77.7	40.9	24 300
11.0	76.2	40.7	20 000
12.0	74.7	40.4	16 500
14.0	71.6	39.8	10 900
16.0	68.6	39.0	6 700
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	39 800
8.0	81.3	44.4	34 700
9.0	79.9	44.2	28 600
10.0	78.6	44.0	23 600
11.0	77.2	43.8	19 600
12.0	75.8	43.6	16 100
14.0	73.0	43.0	10 700
16.0	70.2	42.3	6 500

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 1

Boom No. 78, Luffing Jib No. 139
47 630 kg Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*).

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			
4.3	82.7	23.4	117 400
4.5	82.0	23.4	107 900
5.0	80.7	23.3	90 700
5.5	79.3	23.2	77 500
6.0	77.9	23.1	67 000
7.0	75.2	22.8	51 100
8.0	72.3	22.5	39 800
9.0	69.5	22.1	31 400
10.0	66.6	21.7	24 800
11.0	63.6	21.2	19 600
12.0	60.5	20.6	15 200
14.0	54.0	19.3	8 700
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	99 500
5.0	81.9	26.4	86 600
5.5	80.7	26.3	74 600
6.0	79.5	26.2	64 800
7.0	77.1	26.0	50 100
8.0	74.6	25.7	39 400
9.0	72.2	25.4	31 300
10.0	69.6	25.0	25 000
11.0	67.1	24.6	19 900
12.0	64.5	24.1	15 800
14.0	59.1	23.0	9 300
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	85 500
5.0	82.8	29.5	82 500
5.5	81.7	29.4	71 300
6.0	80.6	29.3	62 400
7.0	78.5	29.1	48 600
8.0	76.4	28.9	38 600
9.0	74.2	28.6	30 900
10.0	72.0	28.3	24 800
11.0	69.8	27.9	20 000
12.0	67.5	27.5	16 000
14.0	62.9	26.5	9 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	68 700
6.0	81.6	32.4	60 100
7.0	79.7	32.2	47 200
8.0	77.8	32.0	37 700
9.0	75.8	31.7	30 400
10.0	73.9	31.5	24 600
11.0	71.9	31.1	19 800
12.0	69.9	30.8	16 000
14.0	65.8	29.9	9 900
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	60 500
6.0	82.4	35.5	57 400
7.0	80.6	35.3	45 300
8.0	78.9	35.1	36 400
9.0	77.1	34.9	29 400
10.0	75.4	34.6	23 900
11.0	73.6	34.3	19 400
12.0	71.8	34.0	15 700
14.0	68.1	33.2	9 800
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	54 000
7.0	81.4	38.4	43 900
8.0	79.8	38.2	35 400
9.0	78.2	38.0	28 800
10.0	76.6	37.8	23 500
11.0	75.0	37.5	19 200
12.0	73.4	37.2	15 500
14.0	70.1	36.5	9 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	45 200
7.0	82.1	41.5	42 500
8.0	80.6	41.3	34 300
9.0	79.1	41.1	27 900
10.0	77.7	40.9	22 900
11.0	76.2	40.7	18 700
12.0	74.7	40.4	15 200
14.0	71.6	39.8	9 600
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	38 300
8.0	81.3	44.4	33 300
9.0	79.9	44.2	27 200
10.0	78.6	44.0	22 300
11.0	77.2	43.8	18 200
12.0	75.8	43.6	14 800
14.0	73.0	43.0	9 400

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 1

Boom No. 78, Luffing Jib No. 139
47 630 kg Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*).

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			
4.3	82.7	23.4	115 000
4.5	82.0	23.4	105 600
5.0	80.7	23.3	88 600
5.5	79.3	23.2	75 600
6.0	77.9	23.1	65 100
7.0	75.2	22.8	49 400
8.0	72.3	22.5	38 300
9.0	69.5	22.1	29 900
10.0	66.6	21.7	23 400
11.0	63.6	21.2	18 200
12.0	60.5	20.6	13 900
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	97 500
5.0	81.9	26.4	84 700
5.5	80.7	26.3	72 800
6.0	79.5	26.2	63 100
7.0	77.1	26.0	48 500
8.0	74.6	25.7	37 900
9.0	72.2	25.4	30 000
10.0	69.6	25.0	23 700
11.0	67.1	24.6	18 700
12.0	64.5	24.1	14 600
14.0	59.1	23.0	8 200
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	83 700
5.0	82.8	29.5	80 700
5.5	81.7	29.4	69 700
6.0	80.6	29.3	60 800
7.0	78.5	29.1	47 200
8.0	76.4	28.9	37 200
9.0	74.2	28.6	29 600
10.0	72.0	28.3	23 600
11.0	69.8	27.9	18 800
12.0	67.5	27.5	14 900
14.0	62.9	26.5	8 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	67 200
6.0	81.6	32.4	58 600
7.0	79.7	32.2	45 900
8.0	77.8	32.0	36 400
9.0	75.8	31.7	29 200
10.0	73.9	31.5	23 400
11.0	71.9	31.1	18 800
12.0	69.9	30.8	14 900
14.0	65.8	29.9	8 900
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	59 100
6.0	82.4	35.5	56 100
7.0	80.6	35.3	44 100
8.0	78.9	35.1	35 200
9.0	77.1	34.9	28 300
10.0	75.4	34.6	22 800
11.0	73.6	34.3	18 400
12.0	71.8	34.0	14 700
14.0	68.1	33.2	8 800
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	52 700
7.0	81.4	38.4	42 700
8.0	79.8	38.2	34 300
9.0	78.2	38.0	27 800
10.0	76.6	37.8	22 500
11.0	75.0	37.5	18 200
12.0	73.4	37.2	14 600
14.0	70.1	36.5	8 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	44 000
7.0	82.1	41.5	41 300
8.0	80.6	41.3	33 200
9.0	79.1	41.1	27 000
10.0	77.7	40.9	21 900
11.0	76.2	40.7	17 800
12.0	74.7	40.4	14 300
14.0	71.6	39.8	8 800
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	37 200
8.0	81.3	44.4	32 200
9.0	79.9	44.2	26 200
10.0	78.6	44.0	21 400
11.0	77.2	43.8	17 400
12.0	75.8	43.6	14 000
14.0	73.0	43.0	8 700

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 1

Boom No. 78, Luffing Jib No. 139
47 630 kg Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*).

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			
4.3	82.7	23.4	111 900
4.5	82.0	23.4	102 600
5.0	80.7	23.3	85 800
5.5	79.3	23.2	72 800
6.0	77.9	23.1	62 500
7.0	75.2	22.8	47 000
8.0	72.3	22.5	36 000
9.0	69.5	22.1	27 700
10.0	66.6	21.7	21 300
11.0	63.6	21.2	16 200
12.0	60.5	20.6	12 000
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	94 700
5.0	81.9	26.4	82 100
5.5	80.7	26.3	70 300
6.0	79.5	26.2	60 800
7.0	77.1	26.0	46 300
8.0	74.6	25.7	35 900
9.0	72.2	25.4	28 000
10.0	69.6	25.0	21 800
11.0	67.1	24.6	16 800
12.0	64.5	24.1	12 800
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	81 200
5.0	82.8	29.5	78 300
5.5	81.7	29.4	67 400
6.0	80.6	29.3	58 600
7.0	78.5	29.1	45 100
8.0	76.4	28.9	35 300
9.0	74.2	28.6	27 700
10.0	72.0	28.3	21 800
11.0	69.8	27.9	17 100
12.0	67.5	27.5	13 100
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	65 000
6.0	81.6	32.4	56 600
7.0	79.7	32.2	43 900
8.0	77.8	32.0	34 600
9.0	75.8	31.7	27 400
10.0	73.9	31.5	21 700
11.0	71.9	31.1	17 200
12.0	69.9	30.8	13 300
14.0	65.8	29.9	7 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	57 100
6.0	82.4	35.5	54 100
7.0	80.6	35.3	42 200
8.0	78.9	35.1	33 400
9.0	77.1	34.9	26 700
10.0	75.4	34.6	21 200
11.0	73.6	34.3	16 800
12.0	71.8	34.0	13 100
14.0	68.1	33.2	7 400
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	50 800
7.0	81.4	38.4	41 000
8.0	79.8	38.2	32 600
9.0	78.2	38.0	26 200
10.0	76.6	37.8	20 900
11.0	75.0	37.5	16 700
12.0	73.4	37.2	13 100
14.0	70.1	36.5	7 600
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	42 300
7.0	82.1	41.5	39 700
8.0	80.6	41.3	31 600
9.0	79.1	41.1	25 400
10.0	77.7	40.9	20 400
11.0	76.2	40.7	16 300
12.0	74.7	40.4	12 900
14.0	71.6	39.8	7 400

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 1

Boom No. 78, Luffing Jib No. 139
47 630 kg Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

Capacities based on structural competence
are denoted by an asterisk (*).

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			
4.3	82.7	23.4	108 800
4.5	82.0	23.4	99 600
5.0	80.7	23.3	83 000
5.5	79.3	23.2	70 300
6.0	77.9	23.1	60 100
7.0	75.2	22.8	44 800
8.0	72.3	22.5	33 900
9.0	69.5	22.1	25 700
10.0	66.6	21.7	19 400
11.0	63.6	21.2	14 300
12.0	60.5	20.6	10 200
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	92 100
5.0	81.9	26.4	79 600
5.5	80.7	26.3	68 000
6.0	79.5	26.2	58 500
7.0	77.1	26.0	44 200
8.0	74.6	25.7	33 900
9.0	72.2	25.4	26 100
10.0	69.6	25.0	20 000
11.0	67.1	24.6	15 100
12.0	64.5	24.1	11 100
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	78 900
5.0	82.8	29.5	76 000
5.5	81.7	29.4	65 200
6.0	80.6	29.3	56 500
7.0	78.5	29.1	43 200
8.0	76.4	28.9	33 500
9.0	74.2	28.6	26 000
10.0	72.0	28.3	20 200
11.0	69.8	27.9	15 500
12.0	67.5	27.5	11 600
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	63 000
6.0	81.6	32.4	54 600
7.0	79.7	32.2	42 100
8.0	77.8	32.0	32 900
9.0	75.8	31.7	25 800
10.0	73.9	31.5	20 200
11.0	71.9	31.1	15 600
12.0	69.9	30.8	11 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	55 200
6.0	82.4	35.5	52 300
7.0	80.6	35.3	40 500
8.0	78.9	35.1	31 800
9.0	77.1	34.9	25 100
10.0	75.4	34.6	19 800
11.0	73.6	34.3	15 400
12.0	71.8	34.0	11 800
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	49 100
7.0	81.4	38.4	39 400
8.0	79.8	38.2	31 100
9.0	78.2	38.0	24 700
10.0	76.6	37.8	19 500
11.0	75.0	37.5	15 400
12.0	73.4	37.2	11 800
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	40 700
7.0	82.1	41.5	38 100
8.0	80.6	41.3	30 200
9.0	79.1	41.1	24 000
10.0	77.7	40.9	19 100
11.0	76.2	40.7	15 000
12.0	74.7	40.4	11 600