

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

European Standards
10 m/s Maximum Wind

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody 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, 64 410 kg crane counterweight and two 9 980 kg carbody counterweights.

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. 7989-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	128 600 *
4.5	82.0	23.4	125 300 *
5.0	80.7	23.3	116 400 *
5.5	79.3	23.2	104 600 *
6.0	77.9	23.1	94 900 *
7.0	75.2	22.8	79 500 *
8.0	72.3	22.5	67 700 *
9.0	69.5	22.1	58 400 *
10.0	66.6	21.7	50 900
11.0	63.6	21.2	43 500
12.0	60.5	20.6	37 200
14.0	54.0	19.3	28 000
16.0	46.9	17.6	21 500
18.0	38.8	15.3	16 500
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	112 700 *
5.0	81.9	26.4	107 700 *
5.5	80.7	26.3	102 200 *
6.0	79.5	26.2	95 500 *
7.0	77.1	26.0	79 700 *
8.0	74.6	25.7	68 000 *
9.0	72.2	25.4	58 700
10.0	69.6	25.0	50 400
11.0	67.1	24.6	43 700
12.0	64.5	24.1	37 800
14.0	59.1	23.0	28 500
16.0	53.4	21.6	21 900
18.0	47.2	19.9	16 800
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	104 600 *
5.0	82.8	29.5	103 400 *
5.5	81.7	29.4	98 300 *
6.0	80.6	29.3	93 600 *
7.0	78.5	29.1	80 000 *
8.0	76.4	28.9	67 400
9.0	74.2	28.6	57 100
10.0	72.0	28.3	49 200
11.0	69.8	27.9	42 700
12.0	67.5	27.5	37 300
14.0	62.9	26.5	28 800
16.0	58.0	25.3	22 200
18.0	52.9	23.9	17 100
20.0	47.4	22.2	13 200
22.0	41.3	20.0	10 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	89 300 *
6.0	81.6	32.4	85 000 *
7.0	79.7	32.2	77 000
8.0	77.8	32.0	65 300
9.0	75.8	31.7	55 600
10.0	73.9	31.5	47 900
11.0	71.9	31.1	41 700
12.0	69.9	30.8	36 500
14.0	65.8	29.9	28 400
16.0	61.6	28.9	22 400
18.0	57.2	27.7	17 300
20.0	52.5	26.2	13 400
22.0	47.5	24.5	10 300
24.0	42.1	22.4	7 800
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	84 900 *
6.0	82.4	35.5	83 200 *
7.0	80.6	35.3	74 600
8.0	78.9	35.1	62 900
9.0	77.1	34.9	53 700
10.0	75.4	34.6	46 400
11.0	73.6	34.3	40 400
12.0	71.8	34.0	35 500
14.0	68.1	33.2	27 700
16.0	64.4	32.3	21 900
18.0	60.5	31.3	17 300
20.0	56.4	30.0	13 400
22.0	52.2	28.5	10 300
24.0	47.7	26.8	7 800
26.0	42.8	24.7	5 800
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	77 200 *
7.0	81.4	38.4	71 100
8.0	79.8	38.2	61 100
9.0	78.2	38.0	52 300
10.0	76.6	37.8	45 300
11.0	75.0	37.5	39 500
12.0	73.4	37.2	34 700
14.0	70.1	36.5	27 200
16.0	66.7	35.7	21 500
18.0	63.2	34.7	17 100
20.0	59.6	33.6	13 600
22.0	55.8	32.3	10 500
24.0	51.9	30.8	8 000
26.0	47.8	29.1	5 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	69 800 *
7.0	82.1	41.5	68 000
8.0	80.6	41.3	59 100
9.0	79.1	41.1	50 700
10.0	77.7	40.9	43 900
11.0	76.2	40.7	38 400
12.0	74.7	40.4	33 800
14.0	71.6	39.8	26 500
16.0	68.6	39.0	21 000
18.0	65.4	38.1	16 700
20.0	62.2	37.1	13 200
22.0	58.8	36.0	10 400
24.0	55.3	34.6	7 900
26.0	51.7	33.1	5 900
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	62 400 *
8.0	81.3	44.4	57 400
9.0	79.9	44.2	49 300
10.0	78.6	44.0	42 800
11.0	77.2	43.8	37 500
12.0	75.8	43.6	33 000
14.0	73.0	43.0	25 800
16.0	70.2	42.3	20 500
18.0	67.3	41.5	16 300
20.0	64.3	40.6	12 900
22.0	61.3	39.5	10 100
24.0	58.1	38.3	7 800
26.0	54.9	36.9	5 800

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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
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	60 900 *
8.0	81.9	47.5	55 500
9.0	80.6	47.3	47 700
10.0	79.3	47.2	41 500
11.0	78.1	46.9	36 400
12.0	76.8	46.7	32 000
14.0	74.2	46.2	25 100
16.0	71.5	45.5	19 900
18.0	68.9	44.8	15 700
20.0	66.1	43.9	12 400
22.0	63.4	43.0	9 700
24.0	60.5	41.9	7 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	54 300
8.0	82.4	50.6	53 700
9.0	81.2	50.4	46 300
10.0	80.0	50.3	40 400
11.0	78.8	50.1	35 400
12.0	77.6	49.8	31 200
14.0	75.2	49.3	24 500
16.0	72.7	48.7	19 300
18.0	70.3	48.0	15 300
20.0	67.7	47.3	12 100
22.0	65.1	46.4	9 400
24.0	62.5	45.4	7 100

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

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.3	82.7	23.4	127 900 *
4.5	82.0	23.4	124 600 *
5.0	80.7	23.3	115 200 *
5.5	79.3	23.2	103 400 *
6.0	77.9	23.1	93 700 *
7.0	75.2	22.8	78 300 *
8.0	72.3	22.5	66 500 *
9.0	69.5	22.1	57 200 *
10.0	66.6	21.7	49 700
11.0	63.6	21.2	42 400
12.0	60.5	20.6	36 100
14.0	54.0	19.3	26 900
16.0	46.9	17.6	20 200
18.0	38.8	15.3	15 300
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	112 100 *
5.0	81.9	26.4	107 100 *
5.5	80.7	26.3	101 600 *
6.0	79.5	26.2	94 300 *
7.0	77.1	26.0	78 600 *
8.0	74.6	25.7	66 800 *
9.0	72.2	25.4	57 400
10.0	69.6	25.0	49 000
11.0	67.1	24.6	42 300
12.0	64.5	24.1	36 700
14.0	59.1	23.0	27 500
16.0	53.4	21.6	20 700
18.0	47.2	19.9	15 700
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	104 000 *
5.0	82.8	29.5	102 800 *
5.5	81.7	29.4	97 700 *
6.0	80.6	29.3	92 900 *
7.0	78.5	29.1	78 800
8.0	76.4	28.9	66 000
9.0	74.2	28.6	55 900
10.0	72.0	28.3	47 800
11.0	69.8	27.9	41 400
12.0	67.5	27.5	36 100
14.0	62.9	26.5	27 800
16.0	58.0	25.3	21 100
18.0	52.9	23.9	16 100
20.0	47.4	22.2	12 200
22.0	41.3	20.0	9 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	88 700 *
6.0	81.6	32.4	84 500 *
7.0	79.7	32.2	76 100
8.0	77.8	32.0	64 000
9.0	75.8	31.7	54 400
10.0	73.9	31.5	46 700
11.0	71.9	31.1	40 500
12.0	69.9	30.8	35 300
14.0	65.8	29.9	27 300
16.0	61.6	28.9	21 300
18.0	57.2	27.7	16 300
20.0	52.5	26.2	12 400
22.0	47.5	24.5	9 300
24.0	42.1	22.4	6 900
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	84 400 *
6.0	82.4	35.5	82 600 *
7.0	80.6	35.3	73 800
8.0	78.9	35.1	61 800
9.0	77.1	34.9	52 600
10.0	75.4	34.6	45 300
11.0	73.6	34.3	39 300
12.0	71.8	34.0	34 400
14.0	68.1	33.2	26 600
16.0	64.4	32.3	20 800
18.0	60.5	31.3	16 300
20.0	56.4	30.0	12 500
22.0	52.2	28.5	9 400
24.0	47.7	26.8	6 900
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	76 700 *
7.0	81.4	38.4	70 300
8.0	79.8	38.2	59 900
9.0	78.2	38.0	51 200
10.0	76.6	37.8	44 200
11.0	75.0	37.5	38 500
12.0	73.4	37.2	33 700
14.0	70.1	36.5	26 100
16.0	66.7	35.7	20 500
18.0	63.2	34.7	16 100
20.0	59.6	33.6	12 600
22.0	55.8	32.3	9 600
24.0	51.9	30.8	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	69 300 *
7.0	82.1	41.5	67 200
8.0	80.6	41.3	58 000
9.0	79.1	41.1	49 600
10.0	77.7	40.9	42 900
11.0	76.2	40.7	37 400
12.0	74.7	40.4	32 800
14.0	71.6	39.8	25 500
16.0	68.6	39.0	20 000
18.0	65.4	38.1	15 700
20.0	62.2	37.1	12 300
22.0	58.8	36.0	9 500
24.0	55.3	34.6	7 100
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	61 900 *
8.0	81.3	44.4	56 300
9.0	79.9	44.2	48 300
10.0	78.6	44.0	41 800
11.0	77.2	43.8	36 500
12.0	75.8	43.6	32 000
14.0	73.0	43.0	24 900
16.0	70.2	42.3	19 500
18.0	67.3	41.5	15 300
20.0	64.3	40.6	12 000
22.0	61.3	39.5	9 200
24.0	58.1	38.3	6 900

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

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	59 500 *
8.0	81.9	47.5	54 500
9.0	80.6	47.3	46 800
10.0	79.3	47.2	40 600
11.0	78.1	46.9	35 400
12.0	76.8	46.7	31 100
14.0	74.2	46.2	24 200
16.0	71.5	45.5	19 000
18.0	68.9	44.8	14 800
20.0	66.1	43.9	11 500
22.0	63.4	43.0	8 800
24.0	60.5	41.9	6 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	53 300
8.0	82.4	50.6	52 700
9.0	81.2	50.4	45 400
10.0	80.0	50.3	39 400
11.0	78.8	50.1	34 400
12.0	77.6	49.8	30 300
14.0	75.2	49.3	23 500
16.0	72.7	48.7	18 400
18.0	70.3	48.0	14 400
20.0	67.7	47.3	11 200
22.0	65.1	46.4	8 500
24.0	62.5	45.4	6 300

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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	126 800 *
4.5	82.0	23.4	123 500 *
5.0	80.7	23.3	112 900 *
5.5	79.3	23.2	101 400 *
6.0	77.9	23.1	91 800 *
7.0	75.2	22.8	76 500 *
8.0	72.3	22.5	64 800 *
9.0	69.5	22.1	55 700 *
10.0	66.6	21.7	48 200
11.0	63.6	21.2	40 900
12.0	60.5	20.6	34 800
14.0	54.0	19.3	25 700
16.0	46.9	17.6	19 000
18.0	38.8	15.3	14 100
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	111 200 *
5.0	81.9	26.4	105 900 *
5.5	80.7	26.3	100 600 *
6.0	79.5	26.2	92 300 *
7.0	77.1	26.0	76 900 *
8.0	74.6	25.7	65 300 *
9.0	72.2	25.4	55 700
10.0	69.6	25.0	47 400
11.0	67.1	24.6	40 700
12.0	64.5	24.1	35 300
14.0	59.1	23.0	26 300
16.0	53.4	21.6	19 500
18.0	47.2	19.9	14 600
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	103 100 *
5.0	82.8	29.5	101 900 *
5.5	81.7	29.4	96 700 *
6.0	80.6	29.3	91 800 *
7.0	78.5	29.1	77 000
8.0	76.4	28.9	64 200
9.0	74.2	28.6	54 100
10.0	72.0	28.3	46 200
11.0	69.8	27.9	39 900
12.0	67.5	27.5	34 700
14.0	62.9	26.5	26 500
16.0	58.0	25.3	20 000
18.0	52.9	23.9	15 000
20.0	47.4	22.2	11 200
22.0	41.3	20.0	8 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	87 900 *
6.0	81.6	32.4	83 600 *
7.0	79.7	32.2	74 900
8.0	77.8	32.0	62 300
9.0	75.8	31.7	52 700
10.0	73.9	31.5	45 200
11.0	71.9	31.1	39 000
12.0	69.9	30.8	33 900
14.0	65.8	29.9	26 000
16.0	61.6	28.9	20 100
18.0	57.2	27.7	15 300
20.0	52.5	26.2	11 400
22.0	47.5	24.5	8 400
24.0	42.1	22.4	6 000
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	83 600 *
6.0	82.4	35.5	81 900 *
7.0	80.6	35.3	72 300
8.0	78.9	35.1	60 000
9.0	77.1	34.9	51 000
10.0	75.4	34.6	43 800
11.0	73.6	34.3	37 900
12.0	71.8	34.0	33 000
14.0	68.1	33.2	25 300
16.0	64.4	32.3	19 700
18.0	60.5	31.3	15 300
20.0	56.4	30.0	11 500
22.0	52.2	28.5	8 500
24.0	47.7	26.8	6 000
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	76 100 *
7.0	81.4	38.4	69 300
8.0	79.8	38.2	58 300
9.0	78.2	38.0	49 700
10.0	76.6	37.8	42 700
11.0	75.0	37.5	37 100
12.0	73.4	37.2	32 400
14.0	70.1	36.5	25 000
16.0	66.7	35.7	19 400
18.0	63.2	34.7	15 100
20.0	59.6	33.6	11 600
22.0	55.8	32.3	8 700
24.0	51.9	30.8	6 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	68 600 *
7.0	82.1	41.5	66 100
8.0	80.6	41.3	56 400
9.0	79.1	41.1	48 200
10.0	77.7	40.9	41 500
11.0	76.2	40.7	36 100
12.0	74.7	40.4	31 500
14.0	71.6	39.8	24 300
16.0	68.6	39.0	18 900
18.0	65.4	38.1	14 700
20.0	62.2	37.1	11 300
22.0	58.8	36.0	8 600
24.0	55.3	34.6	6 200
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	61 300 *
8.0	81.3	44.4	54 700
9.0	79.9	44.2	46 800
10.0	78.6	44.0	40 400
11.0	77.2	43.8	35 200
12.0	75.8	43.6	30 800
14.0	73.0	43.0	23 800
16.0	70.2	42.3	18 400
18.0	67.3	41.5	14 300
20.0	64.3	40.6	11 000
22.0	61.3	39.5	8 300
24.0	58.1	38.3	6 000

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

European Standards
10 m/s Maximum Wind

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

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

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			
7.3	82.8	47.6	58 900 *
8.0	81.9	47.5	52 900
9.0	80.6	47.3	45 400
10.0	79.3	47.2	39 300
11.0	78.1	46.9	34 200
12.0	76.8	46.7	29 900
14.0	74.2	46.2	23 100
16.0	71.5	45.5	17 900
18.0	68.9	44.8	13 900
20.0	66.1	43.9	10 600
22.0	63.4	43.0	8 000
24.0	60.5	41.9	5 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	51 800
8.0	82.4	50.6	51 300
9.0	81.2	50.4	44 000
10.0	80.0	50.3	38 100
11.0	78.8	50.1	33 300
12.0	77.6	49.8	29 100
14.0	75.2	49.3	22 500
16.0	72.7	48.7	17 400
18.0	70.3	48.0	13 500
20.0	67.7	47.3	10 300
22.0	65.1	46.4	7 700
24.0	62.5	45.4	5 500

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

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

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	127 600 *
4.5	82.0	23.4	124 300 *
5.0	80.7	23.3	114 200 *
5.5	79.3	23.2	102 300 *
6.0	77.9	23.1	92 500 *
7.0	75.2	22.8	76 900 *
8.0	72.3	22.5	65 000 *
9.0	69.5	22.1	55 600 *
10.0	66.6	21.7	47 900
11.0	63.6	21.2	40 700
12.0	60.5	20.6	34 400
14.0	54.0	19.3	25 000
16.0	46.9	17.6	18 100
18.0	38.8	15.3	13 100
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	111 900 *
5.0	81.9	26.4	106 600 *
5.5	80.7	26.3	101 200 *
6.0	79.5	26.2	93 200 *
7.0	77.1	26.0	77 400 *
8.0	74.6	25.7	65 500
9.0	72.2	25.4	55 600
10.0	69.6	25.0	47 100
11.0	67.1	24.6	40 300
12.0	64.5	24.1	34 800
14.0	59.1	23.0	25 800
16.0	53.4	21.6	18 900
18.0	47.2	19.9	13 800
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	103 800 *
5.0	82.8	29.5	102 500 *
5.5	81.7	29.4	97 300 *
6.0	80.6	29.3	92 500 *
7.0	78.5	29.1	77 500
8.0	76.4	28.9	64 400
9.0	74.2	28.6	54 100
10.0	72.0	28.3	46 100
11.0	69.8	27.9	39 600
12.0	67.5	27.5	34 300
14.0	62.9	26.5	25 900
16.0	58.0	25.3	19 500
18.0	52.9	23.9	14 400
20.0	47.4	22.2	10 500
22.0	41.3	20.0	7 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	88 400 *
6.0	81.6	32.4	84 100 *
7.0	79.7	32.2	75 300
8.0	77.8	32.0	62 600
9.0	75.8	31.7	52 800
10.0	73.9	31.5	45 100
11.0	71.9	31.1	38 800
12.0	69.9	30.8	33 700
14.0	65.8	29.9	25 600
16.0	61.6	28.9	19 600
18.0	57.2	27.7	14 800
20.0	52.5	26.2	10 800
22.0	47.5	24.5	7 700
24.0	42.1	22.4	5 200
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	84 000 *
6.0	82.4	35.5	82 300 *
7.0	80.6	35.3	72 900
8.0	78.9	35.1	60 400
9.0	77.1	34.9	51 100
10.0	75.4	34.6	43 800
11.0	73.6	34.3	37 800
12.0	71.8	34.0	32 800
14.0	68.1	33.2	25 000
16.0	64.4	32.3	19 200
18.0	60.5	31.3	14 700
20.0	56.4	30.0	11 000
22.0	52.2	28.5	7 900
24.0	47.7	26.8	5 400
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	76 400 *
7.0	81.4	38.4	69 700
8.0	79.8	38.2	58 700
9.0	78.2	38.0	49 900
10.0	76.6	37.8	42 800
11.0	75.0	37.5	37 000
12.0	73.4	37.2	32 200
14.0	70.1	36.5	24 700
16.0	66.7	35.7	19 000
18.0	63.2	34.7	14 600
20.0	59.6	33.6	11 100
22.0	55.8	32.3	8 200
24.0	51.9	30.8	5 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	68 900 *
7.0	82.1	41.5	66 500
8.0	80.6	41.3	56 800
9.0	79.1	41.1	48 400
10.0	77.7	40.9	41 600
11.0	76.2	40.7	36 100
12.0	74.7	40.4	31 400
14.0	71.6	39.8	24 100
16.0	68.6	39.0	18 500
18.0	65.4	38.1	14 200
20.0	62.2	37.1	10 800
22.0	58.8	36.0	8 000
24.0	55.3	34.6	5 600
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	61 500 *
8.0	81.3	44.4	55 100
9.0	79.9	44.2	47 100
10.0	78.6	44.0	40 600
11.0	77.2	43.8	35 200
12.0	75.8	43.6	30 700
14.0	73.0	43.0	23 600
16.0	70.2	42.3	18 100
18.0	67.3	41.5	14 000
20.0	64.3	40.6	10 500
22.0	61.3	39.5	7 700
24.0	58.1	38.3	5 400

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

European Standards
10 m/s Maximum Wind

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

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

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			
7.3	82.8	47.6	59 100 *
8.0	81.9	47.5	53 400
9.0	80.6	47.3	45 600
10.0	79.3	47.2	39 400
11.0	78.1	46.9	34 200
12.0	76.8	46.7	29 900
14.0	74.2	46.2	22 900
16.0	71.5	45.5	17 700
18.0	68.9	44.8	13 500
20.0	66.1	43.9	10 200
22.0	63.4	43.0	7 500
24.0	60.5	41.9	5 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	52 300
8.0	82.4	50.6	51 700
9.0	81.2	50.4	44 300
10.0	80.0	50.3	38 300
11.0	78.8	50.1	33 300
12.0	77.6	49.8	29 100
14.0	75.2	49.3	22 400
16.0	72.7	48.7	17 200
18.0	70.3	48.0	13 200
20.0	67.7	47.3	9 900
22.0	65.1	46.4	7 200
24.0	62.5	45.4	5 000

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

European Standards
10 m/s Maximum Wind

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

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	126 700 *
4.5	82.0	23.4	123 400 *
5.0	80.7	23.3	112 700 *
5.5	79.3	23.2	100 900 *
6.0	77.9	23.1	91 200 *
7.0	75.2	22.8	75 700 *
8.0	72.3	22.5	63 800 *
9.0	69.5	22.1	54 500 *
10.0	66.6	21.7	46 700
11.0	63.6	21.2	39 600
12.0	60.5	20.6	33 500
14.0	54.0	19.3	24 000
16.0	46.9	17.6	17 200
18.0	38.8	15.3	12 300
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	111 000 *
5.0	81.9	26.4	105 800 *
5.5	80.7	26.3	100 300 *
6.0	79.5	26.2	91 900 *
7.0	77.1	26.0	76 200 *
8.0	74.6	25.7	64 400
9.0	72.2	25.4	54 300
10.0	69.6	25.0	45 900
11.0	67.1	24.6	39 200
12.0	64.5	24.1	33 700
14.0	59.1	23.0	24 900
16.0	53.4	21.6	18 000
18.0	47.2	19.9	13 000
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	103 000 *
5.0	82.8	29.5	101 700 *
5.5	81.7	29.4	96 500 *
6.0	80.6	29.3	91 500 *
7.0	78.5	29.1	76 300
8.0	76.4	28.9	63 100
9.0	74.2	28.6	53 000
10.0	72.0	28.3	45 000
11.0	69.8	27.9	38 500
12.0	67.5	27.5	33 200
14.0	62.9	26.5	25 000
16.0	58.0	25.3	18 700
18.0	52.9	23.9	13 600
20.0	47.4	22.2	9 700
22.0	41.3	20.0	6 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	87 700 *
6.0	81.6	32.4	83 400 *
7.0	79.7	32.2	74 400
8.0	77.8	32.0	61 300
9.0	75.8	31.7	51 700
10.0	73.9	31.5	44 000
11.0	71.9	31.1	37 900
12.0	69.9	30.8	32 700
14.0	65.8	29.9	24 700
16.0	61.6	28.9	18 700
18.0	57.2	27.7	14 100
20.0	52.5	26.2	10 100
22.0	47.5	24.5	7 100
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	83 400 *
6.0	82.4	35.5	81 700 *
7.0	80.6	35.3	71 500
8.0	78.9	35.1	59 200
9.0	77.1	34.9	50 000
10.0	75.4	34.6	42 700
11.0	73.6	34.3	36 800
12.0	71.8	34.0	31 900
14.0	68.1	33.2	24 200
16.0	64.4	32.3	18 400
18.0	60.5	31.3	13 900
20.0	56.4	30.0	10 300
22.0	52.2	28.5	7 300
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	75 800 *
7.0	81.4	38.4	68 800
8.0	79.8	38.2	57 500
9.0	78.2	38.0	48 800
10.0	76.6	37.8	41 800
11.0	75.0	37.5	36 100
12.0	73.4	37.2	31 300
14.0	70.1	36.5	23 800
16.0	66.7	35.7	18 200
18.0	63.2	34.7	13 800
20.0	59.6	33.6	10 400
22.0	55.8	32.3	7 500
24.0	51.9	30.8	5 100
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	68 400 *
7.0	82.1	41.5	65 600
8.0	80.6	41.3	55 700
9.0	79.1	41.1	47 400
10.0	77.7	40.9	40 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
11.0	76.2	40.7	35 200
12.0	74.7	40.4	30 600
14.0	71.6	39.8	23 300
16.0	68.6	39.0	17 800
18.0	65.4	38.1	13 500
20.0	62.2	37.1	10 100
22.0	58.8	36.0	7 300
24.0	55.3	34.6	5 000
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	60 700
8.0	81.3	44.4	54 100
9.0	79.9	44.2	46 100
10.0	78.6	44.0	39 700
11.0	77.2	43.8	34 400
12.0	75.8	43.6	29 900
14.0	73.0	43.0	22 800
16.0	70.2	42.3	17 400
18.0	67.3	41.5	13 300
20.0	64.3	40.6	9 900
22.0	61.3	39.5	7 200
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	58 600 *
8.0	81.9	47.5	52 300
9.0	80.6	47.3	44 700
10.0	79.3	47.2	38 500
11.0	78.1	46.9	33 400
12.0	76.8	46.7	29 100
14.0	74.2	46.2	22 200
16.0	71.5	45.5	17 000
18.0	68.9	44.8	12 900
20.0	66.1	43.9	9 600
22.0	63.4	43.0	6 900
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	51 300
8.0	82.4	50.6	50 800
9.0	81.2	50.4	43 400
10.0	80.0	50.3	37 500
11.0	78.8	50.1	32 500
12.0	77.6	49.8	28 300
14.0	75.2	49.3	21 600
16.0	72.7	48.7	16 600
18.0	70.3	48.0	12 500
20.0	67.7	47.3	9 300
22.0	65.1	46.4	6 600

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

European Standards
10 m/s Maximum Wind

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

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	125 400 *
4.5	82.0	23.4	122 100 *
5.0	80.7	23.3	110 400 *
5.5	79.3	23.2	98 900 *
6.0	77.9	23.1	89 200 *
7.0	75.2	22.8	73 800 *
8.0	72.3	22.5	62 000 *
9.0	69.5	22.1	52 700 *
10.0	66.6	21.7	44 500
11.0	63.6	21.2	37 700
12.0	60.5	20.6	31 900
14.0	54.0	19.3	22 300
16.0	46.9	17.6	15 700
18.0	38.8	15.3	10 800
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	109 800 *
5.0	81.9	26.4	104 600 *
5.5	80.7	26.3	99 100 *
6.0	79.5	26.2	89 900 *
7.0	77.1	26.0	74 400 *
8.0	74.6	25.7	62 600
9.0	72.2	25.4	52 200
10.0	69.6	25.0	43 900
11.0	67.1	24.6	37 300
12.0	64.5	24.1	31 900
14.0	59.1	23.0	23 300
16.0	53.4	21.6	16 500
18.0	47.2	19.9	11 600
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	101 900 *
5.0	82.8	29.5	100 600 *
5.5	81.7	29.4	95 300 *
6.0	80.6	29.3	90 000 *
7.0	78.5	29.1	74 300
8.0	76.4	28.9	61 000
9.0	74.2	28.6	51 000
10.0	72.0	28.3	43 200
11.0	69.8	27.9	36 800
12.0	67.5	27.5	31 500
14.0	62.9	26.5	23 400
16.0	58.0	25.3	17 300
18.0	52.9	23.9	12 300
20.0	47.4	22.2	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	86 600 *
6.0	81.6	32.4	82 400 *
7.0	79.7	32.2	72 400
8.0	77.8	32.0	59 400
9.0	75.8	31.7	49 800
10.0	73.9	31.5	42 300
11.0	71.9	31.1	36 200
12.0	69.9	30.8	31 100
14.0	65.8	29.9	23 200
16.0	61.6	28.9	17 300
18.0	57.2	27.7	12 700
20.0	52.5	26.2	8 900
22.0	47.5	24.5	5 900
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	82 400 *
6.0	82.4	35.5	80 700 *
7.0	80.6	35.3	69 400
8.0	78.9	35.1	57 400
9.0	77.1	34.9	48 300
10.0	75.4	34.6	41 100
11.0	73.6	34.3	35 200
12.0	71.8	34.0	30 300
14.0	68.1	33.2	22 700
16.0	64.4	32.3	17 000
18.0	60.5	31.3	12 600
20.0	56.4	30.0	9 100
22.0	52.2	28.5	6 100
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	74 900 *
7.0	81.4	38.4	67 400
8.0	79.8	38.2	55 800
9.0	78.2	38.0	47 100
10.0	76.6	37.8	40 200
11.0	75.0	37.5	34 600
12.0	73.4	37.2	29 800
14.0	70.1	36.5	22 400
16.0	66.7	35.7	16 900
18.0	63.2	34.7	12 500
20.0	59.6	33.6	9 100
22.0	55.8	32.3	6 300
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	67 500 *
7.0	82.1	41.5	64 300
8.0	80.6	41.3	54 000
9.0	79.1	41.1	45 800
10.0	77.7	40.9	39 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
11.0	76.2	40.7	33 700
12.0	74.7	40.4	29 100
14.0	71.6	39.8	21 900
16.0	68.6	39.0	16 500
18.0	65.4	38.1	12 300
20.0	62.2	37.1	8 900
22.0	58.8	36.0	6 200
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	59 000
8.0	81.3	44.4	52 400
9.0	79.9	44.2	44 500
10.0	78.6	44.0	38 200
11.0	77.2	43.8	32 900
12.0	75.8	43.6	28 500
14.0	73.0	43.0	21 500
16.0	70.2	42.3	16 200
18.0	67.3	41.5	12 000
20.0	64.3	40.6	8 700
22.0	61.3	39.5	6 000
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	57 000
8.0	81.9	47.5	50 700
9.0	80.6	47.3	43 200
10.0	79.3	47.2	37 100
11.0	78.1	46.9	32 000
12.0	76.8	46.7	27 700
14.0	74.2	46.2	20 900
16.0	71.5	45.5	15 800
18.0	68.9	44.8	11 700
20.0	66.1	43.9	8 500
22.0	63.4	43.0	5 800
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	49 800
8.0	82.4	50.6	49 200
9.0	81.2	50.4	41 900
10.0	80.0	50.3	36 000
11.0	78.8	50.1	31 100
12.0	77.6	49.8	27 000
14.0	75.2	49.3	20 400
16.0	72.7	48.7	15 400
18.0	70.3	48.0	11 400
20.0	67.7	47.3	8 200
22.0	65.1	46.4	5 600

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody 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	127 100 *
4.5	82.0	23.4	123 700 *
5.0	80.7	23.3	113 000 *
5.5	79.3	23.2	100 900 *
6.0	77.9	23.1	91 000 *
7.0	75.2	22.8	75 100 *
8.0	72.3	22.5	63 000 *
9.0	69.5	22.1	53 400 *
10.0	66.6	21.7	44 900
11.0	63.6	21.2	37 800
12.0	60.5	20.6	32 000
14.0	54.0	19.3	22 100
16.0	46.9	17.6	15 200
18.0	38.8	15.3	10 200
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	111 300 *
5.0	81.9	26.4	106 000 *
5.5	80.7	26.3	100 400 *
6.0	79.5	26.2	91 900 *
7.0	77.1	26.0	75 900 *
8.0	74.6	25.7	63 700
9.0	72.2	25.4	53 000
10.0	69.6	25.0	44 500
11.0	67.1	24.6	37 700
12.0	64.5	24.1	32 000
14.0	59.1	23.0	23 300
16.0	53.4	21.6	16 400
18.0	47.2	19.9	11 200
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	103 200 *
5.0	82.8	29.5	101 900 *
5.5	81.7	29.4	96 700 *
6.0	80.6	29.3	91 600 *
7.0	78.5	29.1	75 900
8.0	76.4	28.9	62 200
9.0	74.2	28.6	51 900
10.0	72.0	28.3	43 800
11.0	69.8	27.9	37 200
12.0	67.5	27.5	31 800
14.0	62.9	26.5	23 400
16.0	58.0	25.3	17 200
18.0	52.9	23.9	12 100
20.0	47.4	22.2	8 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	87 800 *
6.0	81.6	32.4	83 500 *
7.0	79.7	32.2	74 100
8.0	77.8	32.0	60 600
9.0	75.8	31.7	50 800
10.0	73.9	31.5	43 000
11.0	71.9	31.1	36 700
12.0	69.9	30.8	31 500
14.0	65.8	29.9	23 300
16.0	61.6	28.9	17 200
18.0	57.2	27.7	12 600
20.0	52.5	26.2	8 700
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	83 500 *
6.0	82.4	35.5	81 700 *
7.0	80.6	35.3	71 100
8.0	78.9	35.1	58 600
9.0	77.1	34.9	49 300
10.0	75.4	34.6	41 900
11.0	73.6	34.3	35 800
12.0	71.8	34.0	30 800
14.0	68.1	33.2	22 900
16.0	64.4	32.3	17 000
18.0	60.5	31.3	12 500
20.0	56.4	30.0	8 800
22.0	52.2	28.5	5 900
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	75 900 *
7.0	81.4	38.4	68 700
8.0	79.8	38.2	57 000
9.0	78.2	38.0	48 100
10.0	76.6	37.8	41 000
11.0	75.0	37.5	35 200
12.0	73.4	37.2	30 400
14.0	70.1	36.5	22 700
16.0	66.7	35.7	16 900
18.0	63.2	34.7	12 500
20.0	59.6	33.6	8 900
22.0	55.8	32.3	6 100
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	68 400 *
7.0	82.1	41.5	65 500
8.0	80.6	41.3	55 300
9.0	79.1	41.1	46 800
10.0	77.7	40.9	40 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
11.0	76.2	40.7	34 400
12.0	74.7	40.4	29 700
14.0	71.6	39.8	22 200
16.0	68.6	39.0	16 700
18.0	65.4	38.1	12 300
20.0	62.2	37.1	8 800
22.0	58.8	36.0	6 000
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	60 500
8.0	81.3	44.4	53 700
9.0	79.9	44.2	45 600
10.0	78.6	44.0	39 000
11.0	77.2	43.8	33 600
12.0	75.8	43.6	29 100
14.0	73.0	43.0	21 900
16.0	70.2	42.3	16 400
18.0	67.3	41.5	12 100
20.0	64.3	40.6	8 700
22.0	61.3	39.5	5 900
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	58 500
8.0	81.9	47.5	52 000
9.0	80.6	47.3	44 300
10.0	79.3	47.2	38 000
11.0	78.1	46.9	32 700
12.0	76.8	46.7	28 300
14.0	74.2	46.2	21 300
16.0	71.5	45.5	16 000
18.0	68.9	44.8	11 800
20.0	66.1	43.9	8 500
22.0	63.4	43.0	5 700
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	51 000
8.0	82.4	50.6	50 400
9.0	81.2	50.4	43 000
10.0	80.0	50.3	36 900
11.0	78.8	50.1	31 900
12.0	77.6	49.8	27 600
14.0	75.2	49.3	20 800
16.0	72.7	48.7	15 600
18.0	70.3	48.0	11 500
20.0	67.7	47.3	8 200
22.0	65.1	46.4	5 500

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

European Standards
10 m/s Maximum Wind

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

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	126 000 *
4.5	82.0	23.4	122 500 *
5.0	80.7	23.3	111 100 *
5.5	79.3	23.2	99 200 *
6.0	77.9	23.1	89 300 *
7.0	75.2	22.8	73 400 *
8.0	72.3	22.5	61 300 *
9.0	69.5	22.1	51 600
10.0	66.6	21.7	42 900
11.0	63.6	21.2	35 900
12.0	60.5	20.6	30 100
14.0	54.0	19.3	20 500
16.0	46.9	17.6	13 700
18.0	38.8	15.3	8 700
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	110 300 *
5.0	81.9	26.4	105 000 *
5.5	80.7	26.3	99 400 *
6.0	79.5	26.2	90 200 *
7.0	77.1	26.0	74 200 *
8.0	74.6	25.7	61 900
9.0	72.2	25.4	51 100
10.0	69.6	25.0	42 600
11.0	67.1	24.6	35 900
12.0	64.5	24.1	30 300
14.0	59.1	23.0	21 700
16.0	53.4	21.6	14 900
18.0	47.2	19.9	9 900
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	102 300 *
5.0	82.8	29.5	101 000 *
5.5	81.7	29.4	95 700 *
6.0	80.6	29.3	90 300 *
7.0	78.5	29.1	73 900
8.0	76.4	28.9	60 300
9.0	74.2	28.6	50 100
10.0	72.0	28.3	42 100
11.0	69.8	27.9	35 600
12.0	67.5	27.5	30 200
14.0	62.9	26.5	21 900
16.0	58.0	25.3	15 700
18.0	52.9	23.9	10 800
20.0	47.4	22.2	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	86 900 *
6.0	81.6	32.4	82 600 *
7.0	79.7	32.2	72 100
8.0	77.8	32.0	58 800
9.0	75.8	31.7	49 100
10.0	73.9	31.5	41 400
11.0	71.9	31.1	35 100
12.0	69.9	30.8	29 900
14.0	65.8	29.9	21 800
16.0	61.6	28.9	15 800
18.0	57.2	27.7	11 200
20.0	52.5	26.2	7 500
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	82 700 *
6.0	82.4	35.5	80 900 *
7.0	80.6	35.3	69 300
8.0	78.9	35.1	56 900
9.0	77.1	34.9	47 700
10.0	75.4	34.6	40 300
11.0	73.6	34.3	34 300
12.0	71.8	34.0	29 300
14.0	68.1	33.2	21 500
16.0	64.4	32.3	15 700
18.0	60.5	31.3	11 200
20.0	56.4	30.0	7 600
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	75 100 *
7.0	81.4	38.4	67 400
8.0	79.8	38.2	55 400
9.0	78.2	38.0	46 600
10.0	76.6	37.8	39 600
11.0	75.0	37.5	33 800
12.0	73.4	37.2	29 000
14.0	70.1	36.5	21 400
16.0	66.7	35.7	15 700
18.0	63.2	34.7	11 300
20.0	59.6	33.6	7 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	67 700 *
7.0	82.1	41.5	64 400
8.0	80.6	41.3	53 800
9.0	79.1	41.1	45 400
10.0	77.7	40.9	38 600
11.0	76.2	40.7	33 000
12.0	74.7	40.4	28 300
14.0	71.6	39.8	21 000
16.0	68.6	39.0	15 400
18.0	65.4	38.1	11 100
20.0	62.2	37.1	7 600
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	59 000
8.0	81.3	44.4	52 200
9.0	79.9	44.2	44 200
10.0	78.6	44.0	37 700
11.0	77.2	43.8	32 300
12.0	75.8	43.6	27 800
14.0	73.0	43.0	20 600
16.0	70.2	42.3	15 200
18.0	67.3	41.5	11 000
20.0	64.3	40.6	7 500
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	57 000
8.0	81.9	47.5	50 600
9.0	80.6	47.3	42 900
10.0	79.3	47.2	36 700
11.0	78.1	46.9	31 400
12.0	76.8	46.7	27 100
14.0	74.2	46.2	20 100
16.0	71.5	45.5	14 800
18.0	68.9	44.8	10 700
20.0	66.1	43.9	7 300
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	49 000 *
8.0	82.4	50.6	48 500
9.0	81.2	50.4	41 700
10.0	80.0	50.3	35 700
11.0	78.8	50.1	30 600
12.0	77.6	49.8	26 400
14.0	75.2	49.3	19 600
16.0	72.7	48.7	14 500
18.0	70.3	48.0	10 400
20.0	67.7	47.3	7 200

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody 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	125 100 *
4.5	82.0	23.4	121 700 *
5.0	80.7	23.3	109 700 *
5.5	79.3	23.2	97 900 *
6.0	77.9	23.1	88 000 *
7.0	75.2	22.8	72 200 *
8.0	72.3	22.5	60 100 *
9.0	69.5	22.1	50 200
10.0	66.6	21.7	41 500
11.0	63.6	21.2	34 500
12.0	60.5	20.6	28 800
14.0	54.0	19.3	19 400
16.0	46.9	17.6	12 700
18.0	38.8	15.3	7 700
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	109 600 *
5.0	81.9	26.4	104 200 *
5.5	80.7	26.3	98 600 *
6.0	79.5	26.2	88 900 *
7.0	77.1	26.0	73 100 *
8.0	74.6	25.7	60 500
9.0	72.2	25.4	49 700
10.0	69.6	25.0	41 400
11.0	67.1	24.6	34 600
12.0	64.5	24.1	29 100
14.0	59.1	23.0	20 500
16.0	53.4	21.6	14 000
18.0	47.2	19.9	8 900
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	101 600 *
5.0	82.8	29.5	100 300 *
5.5	81.7	29.4	95 000 *
6.0	80.6	29.3	89 300 *
7.0	78.5	29.1	72 400
8.0	76.4	28.9	59 000
9.0	74.2	28.6	48 900
10.0	72.0	28.3	40 900
11.0	69.8	27.9	34 400
12.0	67.5	27.5	29 100
14.0	62.9	26.5	20 800
16.0	58.0	25.3	14 700
18.0	52.9	23.9	9 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	86 300 *
6.0	81.6	32.4	82 000 *
7.0	79.7	32.2	70 700
8.0	77.8	32.0	57 600
9.0	75.8	31.7	47 900
10.0	73.9	31.5	40 300
11.0	71.9	31.1	34 000
12.0	69.9	30.8	28 900
14.0	65.8	29.9	20 900
16.0	61.6	28.9	14 900
18.0	57.2	27.7	10 300
20.0	52.5	26.2	6 700
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	82 100 *
6.0	82.4	35.5	80 300 *
7.0	80.6	35.3	67 900
8.0	78.9	35.1	55 800
9.0	77.1	34.9	46 600
10.0	75.4	34.6	39 300
11.0	73.6	34.3	33 300
12.0	71.8	34.0	28 400
14.0	68.1	33.2	20 600
16.0	64.4	32.3	14 800
18.0	60.5	31.3	10 300
20.0	56.4	30.0	6 800
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	74 600 *
7.0	81.4	38.4	66 100
8.0	79.8	38.2	54 300
9.0	78.2	38.0	45 600
10.0	76.6	37.8	38 600
11.0	75.0	37.5	32 800
12.0	73.4	37.2	28 000
14.0	70.1	36.5	20 500
16.0	66.7	35.7	14 800
18.0	63.2	34.7	10 500
20.0	59.6	33.6	7 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	67 100
7.0	82.1	41.5	63 500
8.0	80.6	41.3	52 700
9.0	79.1	41.1	44 400
10.0	77.7	40.9	37 600
11.0	76.2	40.7	32 100
12.0	74.7	40.4	27 500
14.0	71.6	39.8	20 200
16.0	68.6	39.0	14 700
18.0	65.4	38.1	10 400
20.0	62.2	37.1	6 900
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	57 900
8.0	81.3	44.4	51 200
9.0	79.9	44.2	43 200
10.0	78.6	44.0	36 800
11.0	77.2	43.8	31 400
12.0	75.8	43.6	27 000
14.0	73.0	43.0	19 800
16.0	70.2	42.3	14 400
18.0	67.3	41.5	10 200
20.0	64.3	40.6	6 900
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	54 700 *
8.0	81.9	47.5	49 700
9.0	80.6	47.3	42 000
10.0	79.3	47.2	35 800
11.0	78.1	46.9	30 600
12.0	76.8	46.7	26 300
14.0	74.2	46.2	19 400
16.0	71.5	45.5	14 100
18.0	68.9	44.8	10 000
20.0	66.1	43.9	6 700
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	46 900 *
8.0	82.4	50.6	46 500
9.0	81.2	50.4	41 000
10.0	80.0	50.3	34 800
11.0	78.8	50.1	29 900
12.0	77.6	49.8	25 600
14.0	75.2	49.3	18 900
16.0	72.7	48.7	13 800
18.0	70.3	48.0	9 800
20.0	67.7	47.3	6 500

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody 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	124 000 *
4.5	82.0	23.4	120 500 *
5.0	80.7	23.3	107 700 *
5.5	79.3	23.2	96 000 *
6.0	77.9	23.1	86 100 *
7.0	75.2	22.8	70 400 *
8.0	72.3	22.5	58 400
9.0	69.5	22.1	48 100
10.0	66.6	21.7	39 400
11.0	63.6	21.2	32 500
12.0	60.5	20.6	26 900
14.0	54.0	19.3	17 700
16.0	46.9	17.6	11 000
18.0	38.8	15.3	6 100
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	108 500 *
5.0	81.9	26.4	103 200 *
5.5	80.7	26.3	97 000 *
6.0	79.5	26.2	87 100 *
7.0	77.1	26.0	71 400 *
8.0	74.6	25.7	58 300
9.0	72.2	25.4	47 700
10.0	69.6	25.0	39 400
11.0	67.1	24.6	32 800
12.0	64.5	24.1	27 300
14.0	59.1	23.0	18 800
16.0	53.4	21.6	12 500
18.0	47.2	19.9	7 500
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	100 600 *
5.0	82.8	29.5	99 300 *
5.5	81.7	29.4	93 900 *
6.0	80.6	29.3	87 900 *
7.0	78.5	29.1	70 300
8.0	76.4	28.9	57 000
9.0	74.2	28.6	47 000
10.0	72.0	28.3	39 100
11.0	69.8	27.9	32 700
12.0	67.5	27.5	27 400
14.0	62.9	26.5	19 200
16.0	58.0	25.3	13 200
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	85 400 *
6.0	81.6	32.4	81 000 *
7.0	79.7	32.2	68 600
8.0	77.8	32.0	55 800
9.0	75.8	31.7	46 100
10.0	73.9	31.5	38 600
11.0	71.9	31.1	32 400
12.0	69.9	30.8	27 300
14.0	65.8	29.9	19 300
16.0	61.6	28.9	13 400
18.0	57.2	27.7	8 900
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	81 200 *
6.0	82.4	35.5	79 400 *
7.0	80.6	35.3	65 900
8.0	78.9	35.1	54 000
9.0	77.1	34.9	44 900
10.0	75.4	34.6	37 700
11.0	73.6	34.3	31 700
12.0	71.8	34.0	26 800
14.0	68.1	33.2	19 100
16.0	64.4	32.3	13 400
18.0	60.5	31.3	8 900
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	73 700 *
7.0	81.4	38.4	64 200
8.0	79.8	38.2	52 700
9.0	78.2	38.0	44 000
10.0	76.6	37.8	37 000
11.0	75.0	37.5	31 300
12.0	73.4	37.2	26 600
14.0	70.1	36.5	19 100
16.0	66.7	35.7	13 500
18.0	63.2	34.7	9 200
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	64 900 *
7.0	82.1	41.5	61 600
8.0	80.6	41.3	51 100
9.0	79.1	41.1	42 800
10.0	77.7	40.9	36 200
11.0	76.2	40.7	30 700
12.0	74.7	40.4	26 100
14.0	71.6	39.8	18 800
16.0	68.6	39.0	13 400
18.0	65.4	38.1	9 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	55 200 *
8.0	81.3	44.4	49 800
9.0	79.9	44.2	41 800
10.0	78.6	44.0	35 400
11.0	77.2	43.8	30 100
12.0	75.8	43.6	25 600
14.0	73.0	43.0	18 500
16.0	70.2	42.3	13 200
18.0	67.3	41.5	9 000
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	51 300 *
8.0	81.9	47.5	48 200
9.0	80.6	47.3	40 600
10.0	79.3	47.2	34 400
11.0	78.1	46.9	29 300
12.0	76.8	46.7	25 000
14.0	74.2	46.2	18 100
16.0	71.5	45.5	12 900
18.0	68.9	44.8	8 800
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	43 900 *
8.0	82.4	50.6	43 600 *
9.0	81.2	50.4	39 300
10.0	80.0	50.3	33 500
11.0	78.8	50.1	28 500
12.0	77.6	49.8	24 400
14.0	75.2	49.3	17 700
16.0	72.7	48.7	12 600
18.0	70.3	48.0	8 600

Liftcrane Boom Capacities With Luffing Jib Attached

777 SERIES 2

European Standards
10 m/s Maximum Wind

Boom No. 78, Luffing Jib No. 139
64 410 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

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	123 100 *
4.5	82.0	23.4	119 000 *
5.0	80.7	23.3	105 900 *
5.5	79.3	23.2	94 300 *
6.0	77.9	23.1	84 400 *
7.0	75.2	22.8	68 700 *
8.0	72.3	22.5	56 700
9.0	69.5	22.1	46 100
10.0	66.6	21.7	37 500
11.0	63.6	21.2	30 600
12.0	60.5	20.6	25 000
14.0	54.0	19.3	16 200
16.0	46.9	17.6	9 500
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	107 600 *
5.0	81.9	26.4	102 300 *
5.5	80.7	26.3	95 400 *
6.0	79.5	26.2	85 500 *
7.0	77.1	26.0	69 700
8.0	74.6	25.7	56 400
9.0	72.2	25.4	45 900
10.0	69.6	25.0	37 600
11.0	67.1	24.6	31 000
12.0	64.5	24.1	25 600
14.0	59.1	23.0	17 300
16.0	53.4	21.6	11 100
18.0	47.2	19.9	6 200
27.4m (90 Ft.) BOOM			
4.9	83.0	29.5	99 800 *
5.0	82.8	29.5	98 500 *
5.5	81.7	29.4	93 200 *
6.0	80.6	29.3	86 400
7.0	78.5	29.1	68 300
8.0	76.4	28.9	55 200
9.0	74.2	28.6	45 300
10.0	72.0	28.3	37 400
11.0	69.8	27.9	31 100
12.0	67.5	27.5	25 900
14.0	62.9	26.5	17 700
16.0	58.0	25.3	11 700
18.0	52.9	23.9	7 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	84 600 *
6.0	81.6	32.4	80 300 *
7.0	79.7	32.2	66 600
8.0	77.8	32.0	54 100
9.0	75.8	31.7	44 500
10.0	73.9	31.5	37 000
11.0	71.9	31.1	30 900
12.0	69.9	30.8	25 800
14.0	65.8	29.9	17 900
16.0	61.6	28.9	12 100
18.0	57.2	27.7	7 600
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	79 800 *
6.0	82.4	35.5	78 100 *
7.0	80.6	35.3	64 200
8.0	78.9	35.1	52 400
9.0	77.1	34.9	43 400
10.0	75.4	34.6	36 200
11.0	73.6	34.3	30 300
12.0	71.8	34.0	25 500
14.0	68.1	33.2	17 800
16.0	64.4	32.3	12 100
18.0	60.5	31.3	7 700
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	70 700 *
7.0	81.4	38.4	62 800
8.0	79.8	38.2	51 100
9.0	78.2	38.0	42 500
10.0	76.6	37.8	35 600
11.0	75.0	37.5	30 000
12.0	73.4	37.2	25 300
14.0	70.1	36.5	17 800
16.0	66.7	35.7	12 300
18.0	63.2	34.7	8 000
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	61 900 *
7.0	82.1	41.5	59 300
8.0	80.6	41.3	49 600
9.0	79.1	41.1	41 400
10.0	77.7	40.9	34 800
11.0	76.2	40.7	29 400
12.0	74.7	40.4	24 800
14.0	71.6	39.8	17 600
16.0	68.6	39.0	12 200
18.0	65.4	38.1	8 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	52 300 *
8.0	81.3	44.4	48 500
9.0	79.9	44.2	40 500
10.0	78.6	44.0	34 100
11.0	77.2	43.8	28 800
12.0	75.8	43.6	24 400
14.0	73.0	43.0	17 400
16.0	70.2	42.3	12 100
18.0	67.3	41.5	8 000
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	48 500 *
8.0	81.9	47.5	45 700
9.0	80.6	47.3	39 400
10.0	79.3	47.2	33 200
11.0	78.1	46.9	28 100
12.0	76.8	46.7	23 800
14.0	74.2	46.2	17 000
16.0	71.5	45.5	11 900
18.0	68.9	44.8	7 800
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	41 500 *
8.0	82.4	50.6	41 200 *
9.0	81.2	50.4	37 700
10.0	80.0	50.3	32 300
11.0	78.8	50.1	27 400
12.0	77.6	49.8	23 300
14.0	75.2	49.3	16 700
16.0	72.7	48.7	11 600
18.0	70.3	48.0	7 700