

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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 do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. 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. 7985-A** and Luffing Jib Raising Procedure chart **No. 7986-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 TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 7987-A**.

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.

Consult chart **No. 7981-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	117 300 *
5.5	79.3	23.2	105 300 *
6.0	77.9	23.1	95 700 *
7.0	75.2	22.8	80 200 *
8.0	72.3	22.5	68 400 *
9.0	69.5	22.1	59 100 *
10.0	66.6	21.7	51 500
11.0	63.6	21.2	44 000
12.0	60.5	20.6	37 700
14.0	54.0	19.3	28 500
16.0	46.9	17.6	22 100
18.0	38.8	15.3	17 400
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	112 800 *
5.0	81.9	26.4	107 700 *
5.5	80.7	26.3	102 200 *
6.0	79.5	26.2	96 100 *
7.0	77.1	26.0	80 500 *
8.0	74.6	25.7	68 700 *
9.0	72.2	25.4	59 400 *
10.0	69.6	25.0	51 900
11.0	67.1	24.6	44 500
12.0	64.5	24.1	38 200
14.0	59.1	23.0	29 000
16.0	53.4	21.6	22 500
18.0	47.2	19.9	17 700
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	80 800 *
8.0	76.4	28.9	68 900 *
9.0	74.2	28.6	59 600 *
10.0	72.0	28.3	52 100 *
11.0	69.8	27.9	44 900
12.0	67.5	27.5	38 600
14.0	62.9	26.5	29 300
16.0	58.0	25.3	22 800
18.0	52.9	23.9	18 000
20.0	47.4	22.2	14 300
22.0	41.3	20.0	11 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	89 300 *
6.0	81.6	32.4	85 000 *
7.0	79.7	32.2	77 700 *
8.0	77.8	32.0	68 500 *
9.0	75.8	31.7	59 600 *
10.0	73.9	31.5	52 200 *
11.0	71.9	31.1	45 200
12.0	69.9	30.8	38 800
14.0	65.8	29.9	29 500
16.0	61.6	28.9	23 000
18.0	57.2	27.7	18 200
20.0	52.5	26.2	14 500
22.0	47.5	24.5	11 500
24.0	42.1	22.4	9 200
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	75 600 *
8.0	78.9	35.1	68 800 *
9.0	77.1	34.9	59 600 *
10.0	75.4	34.6	52 100 *
11.0	73.6	34.3	45 200
12.0	71.8	34.0	38 900
14.0	68.1	33.2	29 600
16.0	64.4	32.3	23 100
18.0	60.5	31.3	18 300
20.0	56.4	30.0	14 600
22.0	52.2	28.5	11 600
24.0	47.7	26.8	9 300
26.0	42.8	24.7	7 300
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	77 200 *
7.0	81.4	38.4	71 500 *
8.0	79.8	38.2	65 800 *
9.0	78.2	38.0	58 800 *
10.0	76.6	37.8	51 500 *
11.0	75.0	37.5	45 500
12.0	73.4	37.2	39 100
14.0	70.1	36.5	29 700
16.0	66.7	35.7	23 200
18.0	63.2	34.7	18 400
20.0	59.6	33.6	14 700
22.0	55.8	32.3	11 800
24.0	51.9	30.8	9 400
26.0	47.8	29.1	7 400
28.0	43.3	27.1	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	69 800 *
7.0	82.1	41.5	68 000 *
8.0	80.6	41.3	62 400 *
9.0	79.1	41.1	57 000 *
10.0	77.7	40.9	50 200 *
11.0	76.2	40.7	44 500
12.0	74.7	40.4	39 300
14.0	71.6	39.8	29 900
16.0	68.6	39.0	23 300
18.0	65.4	38.1	18 500
20.0	62.2	37.1	14 800
22.0	58.8	36.0	11 800
24.0	55.3	34.6	9 400
26.0	51.7	33.1	7 400
28.0	47.9	31.4	5 800
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	62 400 *
8.0	81.3	44.4	59 100 *
9.0	79.9	44.2	54 600 *
10.0	78.6	44.0	48 700 *
11.0	77.2	43.8	43 100 *
12.0	75.8	43.6	38 500 *
14.0	73.0	43.0	30 000
16.0	70.2	42.3	23 300
18.0	67.3	41.5	18 500
20.0	64.3	40.6	14 800
22.0	61.3	39.5	11 800
24.0	58.1	38.3	9 400
26.0	54.9	36.9	7 400
28.0	51.5	35.4	5 700
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	60 900 *
8.0	81.9	47.5	57 600 *
9.0	80.6	47.3	53 200 *
10.0	79.3	47.2	47 500 *
11.0	78.1	46.9	42 000 *
12.0	76.8	46.7	37 400 *
14.0	74.2	46.2	30 000
16.0	71.5	45.5	23 300
18.0	68.9	44.8	18 500
20.0	66.1	43.9	14 800
22.0	63.4	43.0	11 800
24.0	60.5	41.9	9 400
26.0	57.6	40.6	7 400
28.0	54.5	39.3	5 700

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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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	54 800 *
8.0	82.4	50.6	54 500 *
9.0	81.2	50.4	50 200 *
10.0	80.0	50.3	46 000 *
11.0	78.8	50.1	40 700 *
12.0	77.6	49.8	36 300 *
14.0	75.2	49.3	29 300
16.0	72.7	48.7	23 500
18.0	70.3	48.0	18 500
20.0	67.7	47.3	14 800
22.0	65.1	46.4	11 800
24.0	62.5	45.4	9 400
26.0	59.8	44.2	7 400
28.0	57.0	43.0	5 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	51 300 *
8.0	82.8	53.7	51 000 *
9.0	81.7	53.5	46 900 *
10.0	80.6	53.4	43 100 *
11.0	79.5	53.2	39 700 *
12.0	78.4	53.0	35 500 *
14.0	76.1	52.5	28 600 *
16.0	73.8	51.9	23 300
18.0	71.5	51.3	18 500
20.0	69.1	50.5	14 700
22.0	66.7	49.7	11 800
24.0	64.3	48.8	9 300
26.0	61.8	47.7	7 200 *
28.0	59.2	46.6	5 400 *



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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	116 000 *
5.5	79.3	23.2	104 100 *
6.0	77.9	23.1	94 400 *
7.0	75.2	22.8	79 000 *
8.0	72.3	22.5	67 200 *
9.0	69.5	22.1	57 900 *
10.0	66.6	21.7	50 300
11.0	63.6	21.2	42 800
12.0	60.5	20.6	36 600
14.0	54.0	19.3	27 500
16.0	46.9	17.6	21 000
18.0	38.8	15.3	16 300
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	95 100 *
7.0	77.1	26.0	79 300 *
8.0	74.6	25.7	67 600 *
9.0	72.2	25.4	58 300 *
10.0	69.6	25.0	50 800
11.0	67.1	24.6	43 500
12.0	64.5	24.1	37 200
14.0	59.1	23.0	28 000
16.0	53.4	21.6	21 500
18.0	47.2	19.9	16 800
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	79 700 *
8.0	76.4	28.9	67 800 *
9.0	74.2	28.6	58 500 *
10.0	72.0	28.3	51 000 *
11.0	69.8	27.9	43 900
12.0	67.5	27.5	37 600
14.0	62.9	26.5	28 400
16.0	58.0	25.3	21 900
18.0	52.9	23.9	17 100
20.0	47.4	22.2	13 400
22.0	41.3	20.0	10 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	88 700 *
6.0	81.6	32.4	84 500 *
7.0	79.7	32.2	77 100 *
8.0	77.8	32.0	67 300 *
9.0	75.8	31.7	58 400 *
10.0	73.9	31.5	51 100 *
11.0	71.9	31.1	44 300
12.0	69.9	30.8	37 900
14.0	65.8	29.9	28 600
16.0	61.6	28.9	22 100
18.0	57.2	27.7	17 300
20.0	52.5	26.2	13 700
22.0	47.5	24.5	10 700
24.0	42.1	22.4	8 300
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	75 000 *
8.0	78.9	35.1	68 000 *
9.0	77.1	34.9	58 600 *
10.0	75.4	34.6	51 100 *
11.0	73.6	34.3	44 400
12.0	71.8	34.0	38 000
14.0	68.1	33.2	28 800
16.0	64.4	32.3	22 200
18.0	60.5	31.3	17 400
20.0	56.4	30.0	13 800
22.0	52.2	28.5	10 800
24.0	47.7	26.8	8 500
26.0	42.8	24.7	6 500
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	76 700 *
7.0	81.4	38.4	71 000 *
8.0	79.8	38.2	65 200 *
9.0	78.2	38.0	57 700 *
10.0	76.6	37.8	50 400 *
11.0	75.0	37.5	44 600
12.0	73.4	37.2	38 300
14.0	70.1	36.5	29 000
16.0	66.7	35.7	22 500
18.0	63.2	34.7	17 600
20.0	59.6	33.6	14 000
22.0	55.8	32.3	11 000
24.0	51.9	30.8	8 600
26.0	47.8	29.1	6 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	69 300 *
7.0	82.1	41.5	67 500 *
8.0	80.6	41.3	61 900 *
9.0	79.1	41.1	56 200 *
10.0	77.7	40.9	49 200 *
11.0	76.2	40.7	43 600 *
12.0	74.7	40.4	38 500
14.0	71.6	39.8	29 100
16.0	68.6	39.0	22 600
18.0	65.4	38.1	17 800
20.0	62.2	37.1	14 100
22.0	58.8	36.0	11 100
24.0	55.3	34.6	8 700
26.0	51.7	33.1	6 800
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	61 900 *
8.0	81.3	44.4	58 600 *
9.0	79.9	44.2	54 200 *
10.0	78.6	44.0	47 700 *
11.0	77.2	43.8	42 200 *
12.0	75.8	43.6	37 600 *
14.0	73.0	43.0	29 200
16.0	70.2	42.3	22 600
18.0	67.3	41.5	17 800
20.0	64.3	40.6	14 100
22.0	61.3	39.5	11 100
24.0	58.1	38.3	8 700
26.0	54.9	36.9	6 700
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	59 500 *
8.0	81.9	47.5	56 300 *
9.0	80.6	47.3	51 900 *
10.0	79.3	47.2	46 600 *
11.0	78.1	46.9	41 000 *
12.0	76.8	46.7	36 500 *
14.0	74.2	46.2	29 300
16.0	71.5	45.5	22 700
18.0	68.9	44.8	17 800
20.0	66.1	43.9	14 100
22.0	63.4	43.0	11 100
24.0	60.5	41.9	8 700
26.0	57.6	40.6	6 700

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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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	54 400 *
8.0	82.4	50.6	54 000 *
9.0	81.2	50.4	49 700 *
10.0	80.0	50.3	45 400 *
11.0	78.8	50.1	39 800 *
12.0	77.6	49.8	35 400 *
14.0	75.2	49.3	28 500
16.0	72.7	48.7	22 800
18.0	70.3	48.0	17 900
20.0	67.7	47.3	14 100
22.0	65.1	46.4	11 100
24.0	62.5	45.4	8 800
26.0	59.8	44.2	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	50 900 *
8.0	82.8	53.7	50 600 *
9.0	81.7	53.5	46 500 *
10.0	80.6	53.4	42 700 *
11.0	79.5	53.2	39 000 *
12.0	78.4	53.0	34 600 *
14.0	76.1	52.5	27 800 *
16.0	73.8	51.9	22 500
18.0	71.5	51.3	17 900
20.0	69.1	50.5	14 100
22.0	66.7	49.7	11 100
24.0	64.3	48.8	8 700
26.0	61.8	47.7	6 700 *



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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	113 800 *
5.5	79.3	23.2	102 100 *
6.0	77.9	23.1	92 500 *
7.0	75.2	22.8	77 200 *
8.0	72.3	22.5	65 600 *
9.0	69.5	22.1	56 400 *
10.0	66.6	21.7	48 800
11.0	63.6	21.2	41 400
12.0	60.5	20.6	35 300
14.0	54.0	19.3	26 300
16.0	46.9	17.6	19 900
18.0	38.8	15.3	15 300
24.4m (80 Ft.) BOOM			
4.6	82.9	26.4	111 200 *
5.0	81.9	26.4	106 000 *
5.5	80.7	26.3	100 600 *
6.0	79.5	26.2	93 200 *
7.0	77.1	26.0	77 600 *
8.0	74.6	25.7	66 000 *
9.0	72.2	25.4	56 800 *
10.0	69.6	25.0	49 400
11.0	67.1	24.6	42 200
12.0	64.5	24.1	35 900
14.0	59.1	23.0	26 900
16.0	53.4	21.6	20 500
18.0	47.2	19.9	15 800
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	92 100 *
7.0	78.5	29.1	77 900 *
8.0	76.4	28.9	66 300 *
9.0	74.2	28.6	57 100 *
10.0	72.0	28.3	49 600 *
11.0	69.8	27.9	42 600
12.0	67.5	27.5	36 400
14.0	62.9	26.5	27 300
16.0	58.0	25.3	20 900
18.0	52.9	23.9	16 200
20.0	47.4	22.2	12 600
22.0	41.3	20.0	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	87 900 *
6.0	81.6	32.4	83 600 *
7.0	79.7	32.2	75 800 *
8.0	77.8	32.0	65 500 *
9.0	75.8	31.7	56 800 *
10.0	73.9	31.5	49 800 *
11.0	71.9	31.1	43 000
12.0	69.9	30.8	36 700
14.0	65.8	29.9	27 600
16.0	61.6	28.9	21 200
18.0	57.2	27.7	16 400
20.0	52.5	26.2	12 800
22.0	47.5	24.5	9 900
24.0	42.1	22.4	7 600
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	74 200 *
8.0	78.9	35.1	66 500 *
9.0	77.1	34.9	57 200 *
10.0	75.4	34.6	49 800 *
11.0	73.6	34.3	43 100
12.0	71.8	34.0	36 900
14.0	68.1	33.2	27 700
16.0	64.4	32.3	21 300
18.0	60.5	31.3	16 600
20.0	56.4	30.0	13 000
22.0	52.2	28.5	10 100
24.0	47.7	26.8	7 700
26.0	42.8	24.7	5 800
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	76 100 *
7.0	81.4	38.4	70 300 *
8.0	79.8	38.2	64 500 *
9.0	78.2	38.0	56 000 *
10.0	76.6	37.8	49 000 *
11.0	75.0	37.5	43 300
12.0	73.4	37.2	37 200
14.0	70.1	36.5	28 000
16.0	66.7	35.7	21 500
18.0	63.2	34.7	16 800
20.0	59.6	33.6	13 200
22.0	55.8	32.3	10 300
24.0	51.9	30.8	7 900
26.0	47.8	29.1	6 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	68 600 *
7.0	82.1	41.5	66 900 *
8.0	80.6	41.3	61 300 *
9.0	79.1	41.1	54 900 *
10.0	77.7	40.9	47 800 *
11.0	76.2	40.7	42 200 *
12.0	74.7	40.4	37 300
14.0	71.6	39.8	28 100
16.0	68.6	39.0	21 700
18.0	65.4	38.1	16 900
20.0	62.2	37.1	13 300
22.0	58.8	36.0	10 300
24.0	55.3	34.6	8 000
26.0	51.7	33.1	6 100
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	61 300 *
8.0	81.3	44.4	58 000 *
9.0	79.9	44.2	53 000 *
10.0	78.6	44.0	46 300 *
11.0	77.2	43.8	40 900 *
12.0	75.8	43.6	36 400 *
14.0	73.0	43.0	28 300
16.0	70.2	42.3	21 700
18.0	67.3	41.5	17 000
20.0	64.3	40.6	13 300
22.0	61.3	39.5	10 400
24.0	58.1	38.3	8 000
26.0	54.9	36.9	6 100
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	58 900 *
8.0	81.9	47.5	55 700 *
9.0	80.6	47.3	51 300 *
10.0	79.3	47.2	45 100 *
11.0	78.1	46.9	39 700 *
12.0	76.8	46.7	35 300 *
14.0	74.2	46.2	28 300
16.0	71.5	45.5	21 800
18.0	68.9	44.8	17 000
20.0	66.1	43.9	13 300
22.0	63.4	43.0	10 400
24.0	60.5	41.9	8 100
26.0	57.6	40.6	6 100

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139

64 410 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

27.4m (90 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	53 800 *
8.0	82.4	50.6	53 500 *
9.0	81.2	50.4	49 200 *
10.0	80.0	50.3	43 900 *
11.0	78.8	50.1	38 500 *
12.0	77.6	49.8	34 200 *
14.0	75.2	49.3	27 400
16.0	72.7	48.7	22 000
18.0	70.3	48.0	17 100
20.0	67.7	47.3	13 400
22.0	65.1	46.4	10 500
24.0	62.5	45.4	8 100
26.0	59.8	44.2	6 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	50 300 *
8.0	82.8	53.7	50 000 *
9.0	81.7	53.5	45 900 *
10.0	80.6	53.4	42 200 *
11.0	79.5	53.2	37 700 *
12.0	78.4	53.0	33 300 *
14.0	76.1	52.5	26 600 *
16.0	73.8	51.9	21 600
18.0	71.5	51.3	17 100
20.0	69.1	50.5	13 400
22.0	66.7	49.7	10 400
24.0	64.3	48.8	8 100
26.0	61.8	47.7	6 100



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	115 000 *
5.5	79.3	23.2	103 000 *
6.0	77.9	23.1	93 200 *
7.0	75.2	22.8	77 600 *
8.0	72.3	22.5	65 700 *
9.0	69.5	22.1	56 300 *
10.0	66.6	21.7	48 600
11.0	63.6	21.2	41 200
12.0	60.5	20.6	34 900
14.0	54.0	19.3	25 700
16.0	46.9	17.6	19 200
18.0	38.8	15.3	14 500
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	94 000 *
7.0	77.1	26.0	78 100 *
8.0	74.6	25.7	66 200 *
9.0	72.2	25.4	56 800 *
10.0	69.6	25.0	49 200 *
11.0	67.1	24.6	42 000
12.0	64.5	24.1	35 700
14.0	59.1	23.0	26 400
16.0	53.4	21.6	19 900
18.0	47.2	19.9	15 100
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	92 600 *
7.0	78.5	29.1	78 500 *
8.0	76.4	28.9	66 600 *
9.0	74.2	28.6	57 200 *
10.0	72.0	28.3	49 700 *
11.0	69.8	27.9	42 600
12.0	67.5	27.5	36 300
14.0	62.9	26.5	27 000
16.0	58.0	25.3	20 500
18.0	52.9	23.9	15 700
20.0	47.4	22.2	12 000
22.0	41.3	20.0	9 000

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	76 300 *
8.0	77.8	32.0	66 100 *
9.0	75.8	31.7	57 100 *
10.0	73.9	31.5	49 900 *
11.0	71.9	31.1	43 100
12.0	69.9	30.8	36 700
14.0	65.8	29.9	27 400
16.0	61.6	28.9	20 800
18.0	57.2	27.7	16 000
20.0	52.5	26.2	12 300
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	84 000 *
6.0	82.4	35.5	82 300 *
7.0	80.6	35.3	74 600 *
8.0	78.9	35.1	67 000 *
9.0	77.1	34.9	57 600 *
10.0	75.4	34.6	50 000 *
11.0	73.6	34.3	43 300
12.0	71.8	34.0	36 900
14.0	68.1	33.2	27 600
16.0	64.4	32.3	21 100
18.0	60.5	31.3	16 200
20.0	56.4	30.0	12 500
22.0	52.2	28.5	9 600
24.0	47.7	26.8	7 200
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	76 400 *
7.0	81.4	38.4	70 600 *
8.0	79.8	38.2	64 700 *
9.0	78.2	38.0	56 600 *
10.0	76.6	37.8	49 300 *
11.0	75.0	37.5	43 500
12.0	73.4	37.2	37 300
14.0	70.1	36.5	27 900
16.0	66.7	35.7	21 400
18.0	63.2	34.7	16 500
20.0	59.6	33.6	12 800
22.0	55.8	32.3	9 800
24.0	51.9	30.8	7 400

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	67 200 *
8.0	80.6	41.3	61 600 *
9.0	79.1	41.1	55 300 *
10.0	77.7	40.9	48 100 *
11.0	76.2	40.7	42 400 *
12.0	74.7	40.4	37 400
14.0	71.6	39.8	28 100
16.0	68.6	39.0	21 500
18.0	65.4	38.1	16 700
20.0	62.2	37.1	13 000
22.0	58.8	36.0	10 000
24.0	55.3	34.6	7 600
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	61 500 *
8.0	81.3	44.4	58 300 *
9.0	79.9	44.2	53 400 *
10.0	78.6	44.0	46 700 *
11.0	77.2	43.8	41 100 *
12.0	75.8	43.6	36 500 *
14.0	73.0	43.0	28 300
16.0	70.2	42.3	21 600
18.0	67.3	41.5	16 800
20.0	64.3	40.6	13 000
22.0	61.3	39.5	10 100
24.0	58.1	38.3	7 600
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	59 100 *
8.0	81.9	47.5	55 900 *
9.0	80.6	47.3	51 500 *
10.0	79.3	47.2	45 600 *
11.0	78.1	46.9	40 000 *
12.0	76.8	46.7	35 500 *
14.0	74.2	46.2	28 300
16.0	71.5	45.5	21 700
18.0	68.9	44.8	16 900
20.0	66.1	43.9	13 100
22.0	63.4	43.0	10 100
24.0	60.5	41.9	7 700

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139

64 410 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	54 000 *
8.0	82.4	50.6	53 700 *
9.0	81.2	50.4	49 300 *
10.0	80.0	50.3	44 400 *
11.0	78.8	50.1	38 900 *
12.0	77.6	49.8	34 400 *
14.0	75.2	49.3	27 500
16.0	72.7	48.7	22 000
18.0	70.3	48.0	17 000
20.0	67.7	47.3	13 200
22.0	65.1	46.4	10 200
24.0	62.5	45.4	7 800
26.0	59.8	44.2	5 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	50 500 *
8.0	82.8	53.7	50 200 *
9.0	81.7	53.5	46 100 *
10.0	80.6	53.4	42 300 *
11.0	79.5	53.2	38 100 *
12.0	78.4	53.0	33 600 *
14.0	76.1	52.5	26 700 *
16.0	73.8	51.9	21 600
18.0	71.5	51.3	17 000
20.0	69.1	50.5	13 200
22.0	66.7	49.7	10 200
24.0	64.3	48.8	7 800
26.0	61.8	47.7	5 800



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	113 500 *
5.5	79.3	23.2	101 700 *
6.0	77.9	23.1	92 000 *
7.0	75.2	22.8	76 400 *
8.0	72.3	22.5	64 600 *
9.0	69.5	22.1	55 200 *
10.0	66.6	21.7	47 500
11.0	63.6	21.2	40 200
12.0	60.5	20.6	34 000
14.0	54.0	19.3	24 800
16.0	46.9	17.6	18 400
18.0	38.8	15.3	13 700
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	92 700 *
7.0	77.1	26.0	77 000 *
8.0	74.6	25.7	65 200 *
9.0	72.2	25.4	55 800 *
10.0	69.6	25.0	48 200 *
11.0	67.1	24.6	41 100
12.0	64.5	24.1	34 800
14.0	59.1	23.0	25 600
16.0	53.4	21.6	19 200
18.0	47.2	19.9	14 400
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	91 800 *
7.0	78.5	29.1	77 300 *
8.0	76.4	28.9	65 600 *
9.0	74.2	28.6	56 200 *
10.0	72.0	28.3	48 700 *
11.0	69.8	27.9	41 700
12.0	67.5	27.5	35 400
14.0	62.9	26.5	26 200
16.0	58.0	25.3	19 800
18.0	52.9	23.9	15 000
20.0	47.4	22.2	11 300
22.0	41.3	20.0	8 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	87 700 *
6.0	81.6	32.4	83 400 *
7.0	79.7	32.2	75 500 *
8.0	77.8	32.0	64 900 *
9.0	75.8	31.7	56 000 *
10.0	73.9	31.5	49 000 *
11.0	71.9	31.1	42 200
12.0	69.9	30.8	35 900
14.0	65.8	29.9	26 600
16.0	61.6	28.9	20 200
18.0	57.2	27.7	15 400
20.0	52.5	26.2	11 700
22.0	47.5	24.5	8 800
24.0	42.1	22.4	6 400
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	73 900 *
8.0	78.9	35.1	66 000 *
9.0	77.1	34.9	56 600 *
10.0	75.4	34.6	49 100 *
11.0	73.6	34.3	42 500
12.0	71.8	34.0	36 100
14.0	68.1	33.2	26 900
16.0	64.4	32.3	20 400
18.0	60.5	31.3	15 600
20.0	56.4	30.0	11 900
22.0	52.2	28.5	9 000
24.0	47.7	26.8	6 700
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	75 800 *
7.0	81.4	38.4	70 000 *
8.0	79.8	38.2	64 100 *
9.0	78.2	38.0	55 500 *
10.0	76.6	37.8	48 300 *
11.0	75.0	37.5	42 600
12.0	73.4	37.2	36 500
14.0	70.1	36.5	27 200
16.0	66.7	35.7	20 700
18.0	63.2	34.7	15 900
20.0	59.6	33.6	12 200
22.0	55.8	32.3	9 300
24.0	51.9	30.8	6 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	68 400 *
7.0	82.1	41.5	66 600 *
8.0	80.6	41.3	61 000 *
9.0	79.1	41.1	54 500 *
10.0	77.7	40.9	47 200 *
11.0	76.2	40.7	41 500 *
12.0	74.7	40.4	36 600
14.0	71.6	39.8	27 400
16.0	68.6	39.0	20 900
18.0	65.4	38.1	16 100
20.0	62.2	37.1	12 400
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	61 000 *
8.0	81.3	44.4	57 700 *
9.0	79.9	44.2	52 600 *
10.0	78.6	44.0	45 800 *
11.0	77.2	43.8	40 200 *
12.0	75.8	43.6	35 700 *
14.0	73.0	43.0	27 600
16.0	70.2	42.3	21 000
18.0	67.3	41.5	16 200
20.0	64.3	40.6	12 500
22.0	61.3	39.5	9 600
24.0	58.1	38.3	7 200
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	58 600 *
8.0	81.9	47.5	55 400 *
9.0	80.6	47.3	51 000 *
10.0	79.3	47.2	44 600 *
11.0	78.1	46.9	39 100 *
12.0	76.8	46.7	34 600 *
14.0	74.2	46.2	27 600
16.0	71.5	45.5	21 200
18.0	68.9	44.8	16 300
20.0	66.1	43.9	12 600
22.0	63.4	43.0	9 600
24.0	60.5	41.9	7 300

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	53 500 *
8.0	82.4	50.6	53 200 *
9.0	81.2	50.4	48 800 *
10.0	80.0	50.3	43 500 *
11.0	78.8	50.1	38 000 *
12.0	77.6	49.8	33 600 *
14.0	75.2	49.3	26 800 *
16.0	72.7	48.7	21 400
18.0	70.3	48.0	16 400
20.0	67.7	47.3	12 700
22.0	65.1	46.4	9 700
24.0	62.5	45.4	7 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	50 100 *
8.0	82.8	53.7	49 800 *
9.0	81.7	53.5	45 600 *
10.0	80.6	53.4	41 900 *
11.0	79.5	53.2	37 200 *
12.0	78.4	53.0	32 800 *
14.0	76.1	52.5	26 000 *
16.0	73.8	51.9	20 900
18.0	71.5	51.3	16 500
20.0	69.1	50.5	12 700
22.0	66.7	49.7	9 700
24.0	64.3	48.8	7 300



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	111 300 *
5.5	79.3	23.2	99 600 *
6.0	77.9	23.1	89 900 *
7.0	75.2	22.8	74 500 *
8.0	72.3	22.5	62 700 *
9.0	69.5	22.1	53 400 *
10.0	66.6	21.7	45 800
11.0	63.6	21.2	38 500
12.0	60.5	20.6	32 400
14.0	54.0	19.3	23 400
16.0	46.9	17.6	17 100
18.0	38.8	15.3	12 500
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	90 700 *
7.0	77.1	26.0	75 100 *
8.0	74.6	25.7	63 400 *
9.0	72.2	25.4	54 100 *
10.0	69.6	25.0	46 600 *
11.0	67.1	24.6	39 500
12.0	64.5	24.1	33 400
14.0	59.1	23.0	24 300
16.0	53.4	21.6	17 900
18.0	47.2	19.9	13 300
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	90 400 *
7.0	78.5	29.1	75 600 *
8.0	76.4	28.9	63 800 *
9.0	74.2	28.6	54 600 *
10.0	72.0	28.3	47 100 *
11.0	69.8	27.9	40 200
12.0	67.5	27.5	34 000
14.0	62.9	26.5	24 900
16.0	58.0	25.3	18 600
18.0	52.9	23.9	13 800
20.0	47.4	22.2	10 300
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	86 600 *
6.0	81.6	32.4	82 400 *
7.0	79.7	32.2	74 100 *
8.0	77.8	32.0	63 000 *
9.0	75.8	31.7	54 300 *
10.0	73.9	31.5	47 300 *
11.0	71.9	31.1	40 800
12.0	69.9	30.8	34 600
14.0	65.8	29.9	25 400
16.0	61.6	28.9	19 000
18.0	57.2	27.7	14 300
20.0	52.5	26.2	10 700
22.0	47.5	24.5	7 800
24.0	42.1	22.4	5 400
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	73 000 *
8.0	78.9	35.1	64 300 *
9.0	77.1	34.9	55 100 *
10.0	75.4	34.6	47 600 *
11.0	73.6	34.3	41 100
12.0	71.8	34.0	34 800
14.0	68.1	33.2	25 700
16.0	64.4	32.3	19 300
18.0	60.5	31.3	14 600
20.0	56.4	30.0	10 900
22.0	52.2	28.5	8 100
24.0	47.7	26.8	5 700
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	74 900 *
7.0	81.4	38.4	69 100 *
8.0	79.8	38.2	62 900 *
9.0	78.2	38.0	53 700 *
10.0	76.6	37.8	46 700 *
11.0	75.0	37.5	41 000
12.0	73.4	37.2	35 300
14.0	70.1	36.5	26 000
16.0	66.7	35.7	19 600
18.0	63.2	34.7	14 900
20.0	59.6	33.6	11 300
22.0	55.8	32.3	8 400
24.0	51.9	30.8	6 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	67 500 *
7.0	82.1	41.5	65 800 *
8.0	80.6	41.3	60 100 *
9.0	79.1	41.1	52 700 *
10.0	77.7	40.9	45 600 *
11.0	76.2	40.7	40 000 *
12.0	74.7	40.4	35 300
14.0	71.6	39.8	26 300
16.0	68.6	39.0	19 900
18.0	65.4	38.1	15 100
20.0	62.2	37.1	11 500
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	60 200 *
8.0	81.3	44.4	56 900 *
9.0	79.9	44.2	51 200 *
10.0	78.6	44.0	44 300 *
11.0	77.2	43.8	38 800 *
12.0	75.8	43.6	34 300 *
14.0	73.0	43.0	26 600
16.0	70.2	42.3	20 000
18.0	67.3	41.5	15 300
20.0	64.3	40.6	11 600
22.0	61.3	39.5	8 700
24.0	58.1	38.3	6 300
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	57 900 *
8.0	81.9	47.5	54 600 *
9.0	80.6	47.3	49 600 *
10.0	79.3	47.2	43 100 *
11.0	78.1	46.9	37 700 *
12.0	76.8	46.7	33 300 *
14.0	74.2	46.2	26 300
16.0	71.5	45.5	20 200
18.0	68.9	44.8	15 400
20.0	66.1	43.9	11 700
22.0	63.4	43.0	8 800
24.0	60.5	41.9	6 400

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	52 700 *
8.0	82.4	50.6	52 400 *
9.0	81.2	50.4	48 000 *
10.0	80.0	50.3	41 900 *
11.0	78.8	50.1	36 600 *
12.0	77.6	49.8	32 300 *
14.0	75.2	49.3	25 500 *
16.0	72.7	48.7	20 200
18.0	70.3	48.0	15 500
20.0	67.7	47.3	11 800
22.0	65.1	46.4	8 900
24.0	62.5	45.4	6 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	49 300 *
8.0	82.8	53.7	49 000 *
9.0	81.7	53.5	44 900 *
10.0	80.6	53.4	40 900 *
11.0	79.5	53.2	35 800 *
12.0	78.4	53.0	31 500 *
14.0	76.1	52.5	24 800 *
16.0	73.8	51.9	19 800 *
18.0	71.5	51.3	15 600
20.0	69.1	50.5	11 800
22.0	66.7	49.7	8 900
24.0	64.3	48.8	6 500

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	113 800 *
5.5	79.3	23.2	101 700 *
6.0	77.9	23.1	91 700 *
7.0	75.2	22.8	75 800 *
8.0	72.3	22.5	63 700 *
9.0	69.5	22.1	54 100 *
10.0	66.6	21.7	46 300
11.0	63.6	21.2	38 900
12.0	60.5	20.6	32 600
14.0	54.0	19.3	23 300
16.0	46.9	17.6	16 700
18.0	38.8	15.3	11 900
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	92 700 *
7.0	77.1	26.0	76 600 *
8.0	74.6	25.7	64 500 *
9.0	72.2	25.4	55 000 *
10.0	69.6	25.0	47 300 *
11.0	67.1	24.6	40 000
12.0	64.5	24.1	33 700
14.0	59.1	23.0	24 300
16.0	53.4	21.6	17 800
18.0	47.2	19.9	12 900
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	91 900 *
7.0	78.5	29.1	77 200 *
8.0	76.4	28.9	65 100 *
9.0	74.2	28.6	55 600 *
10.0	72.0	28.3	47 900 *
11.0	69.8	27.9	40 900
12.0	67.5	27.5	34 500
14.0	62.9	26.5	25 100
16.0	58.0	25.3	18 500
18.0	52.9	23.9	13 700
20.0	47.4	22.2	9 900
22.0	41.3	20.0	7 000

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	75 400 *
8.0	77.8	32.0	64 600 *
9.0	75.8	31.7	55 500 *
10.0	73.9	31.5	48 300 *
11.0	71.9	31.1	41 500
12.0	69.9	30.8	35 100
14.0	65.8	29.9	25 700
16.0	61.6	28.9	19 100
18.0	57.2	27.7	14 200
20.0	52.5	26.2	10 500
22.0	47.5	24.5	7 500
24.0	42.1	22.4	5 000
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	73 900 *
8.0	78.9	35.1	65 700 *
9.0	77.1	34.9	56 200 *
10.0	75.4	34.6	48 500 *
11.0	73.6	34.3	41 900
12.0	71.8	34.0	35 500
14.0	68.1	33.2	26 100
16.0	64.4	32.3	19 400
18.0	60.5	31.3	14 600
20.0	56.4	30.0	10 800
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	75 900 *
7.0	81.4	38.4	70 000 *
8.0	79.8	38.2	64 000 *
9.0	78.2	38.0	55 200 *
10.0	76.6	37.8	47 800 *
11.0	75.0	37.5	41 900
12.0	73.4	37.2	36 000
14.0	70.1	36.5	26 500
16.0	66.7	35.7	19 900
18.0	63.2	34.7	15 000
20.0	59.6	33.6	11 200
22.0	55.8	32.3	8 300
24.0	51.9	30.8	5 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	68 400 *
7.0	82.1	41.5	66 600 *
8.0	80.6	41.3	60 900 *
9.0	79.1	41.1	54 300 *
10.0	77.7	40.9	46 800 *
11.0	76.2	40.7	41 000 *
12.0	74.7	40.4	36 100
14.0	71.6	39.8	26 800
16.0	68.6	39.0	20 200
18.0	65.4	38.1	15 300
20.0	62.2	37.1	11 500
22.0	58.8	36.0	8 500
24.0	55.3	34.6	6 100
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	61 000 *
8.0	81.3	44.4	57 700 *
9.0	79.9	44.2	52 400 *
10.0	78.6	44.0	45 500 *
11.0	77.2	43.8	39 800 *
12.0	75.8	43.6	35 100 *
14.0	73.0	43.0	27 100
16.0	70.2	42.3	20 400
18.0	67.3	41.5	15 500
20.0	64.3	40.6	11 700
22.0	61.3	39.5	8 700
24.0	58.1	38.3	6 200
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	58 600 *
8.0	81.9	47.5	55 300 *
9.0	80.6	47.3	50 900 *
10.0	79.3	47.2	44 400 *
11.0	78.1	46.9	38 700 *
12.0	76.8	46.7	34 100 *
14.0	74.2	46.2	26 900
16.0	71.5	45.5	20 600
18.0	68.9	44.8	15 600
20.0	66.1	43.9	11 800
22.0	63.4	43.0	8 800
24.0	60.5	41.9	6 400

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139

64 410 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	53 500 *
8.0	82.4	50.6	53 100 *
9.0	81.2	50.4	48 700 *
10.0	80.0	50.3	43 300 *
11.0	78.8	50.1	37 700 *
12.0	77.6	49.8	33 100 *
14.0	75.2	49.3	26 100 *
16.0	72.7	48.7	20 700
18.0	70.3	48.0	15 800
20.0	67.7	47.3	12 000
22.0	65.1	46.4	8 900
24.0	62.5	45.4	6 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	50 000 *
8.0	82.8	53.7	49 700 *
9.0	81.7	53.5	45 500 *
10.0	80.6	53.4	41 700 *
11.0	79.5	53.2	37 000 *
12.0	78.4	53.0	32 400 *
14.0	76.1	52.5	25 400 *
16.0	73.8	51.9	20 300 *
18.0	71.5	51.3	15 900
20.0	69.1	50.5	12 100
22.0	66.7	49.7	9 000
24.0	64.3	48.8	6 600

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	111 900 *
5.5	79.3	23.2	99 900 *
6.0	77.9	23.1	90 000 *
7.0	75.2	22.8	74 100 *
8.0	72.3	22.5	62 000 *
9.0	69.5	22.1	52 500 *
10.0	66.6	21.7	44 700
11.0	63.6	21.2	37 400
12.0	60.5	20.6	31 100
14.0	54.0	19.3	21 900
16.0	46.9	17.6	15 400
18.0	38.8	15.3	10 600
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	91 000 *
7.0	77.1	26.0	75 000 *
8.0	74.6	25.7	63 000 *
9.0	72.2	25.4	53 400 *
10.0	69.6	25.0	45 700 *
11.0	67.1	24.6	38 600
12.0	64.5	24.1	32 300
14.0	59.1	23.0	23 000
16.0	53.4	21.6	16 500
18.0	47.2	19.9	11 700
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	90 700 *
7.0	78.5	29.1	75 600 *
8.0	76.4	28.9	63 600 *
9.0	74.2	28.6	54 100 *
10.0	72.0	28.3	46 400 *
11.0	69.8	27.9	39 500
12.0	67.5	27.5	33 200
14.0	62.9	26.5	23 900
16.0	58.0	25.3	17 400
18.0	52.9	23.9	12 500
20.0	47.4	22.2	8 800
22.0	41.3	20.0	5 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	86 900 *
6.0	81.6	32.4	82 600 *
7.0	79.7	32.2	74 200 *
8.0	77.8	32.0	62 900 *
9.0	75.8	31.7	53 900 *
10.0	73.9	31.5	46 800 *
11.0	71.9	31.1	40 300
12.0	69.9	30.8	33 900
14.0	65.8	29.9	24 500
16.0	61.6	28.9	18 000
18.0	57.2	27.7	13 200
20.0	52.5	26.2	9 400
22.0	47.5	24.5	6 500
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	73 100 *
8.0	78.9	35.1	64 300 *
9.0	77.1	34.9	54 800 *
10.0	75.4	34.6	47 200 *
11.0	73.6	34.3	40 700
12.0	71.8	34.0	34 300
14.0	68.1	33.2	24 900
16.0	64.4	32.3	18 400
18.0	60.5	31.3	13 600
20.0	56.4	30.0	9 800
22.0	52.2	28.5	6 900
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	75 100 *
7.0	81.4	38.4	69 200 *
8.0	79.8	38.2	63 100 *
9.0	78.2	38.0	53 600 *
10.0	76.6	37.8	46 400 *
11.0	75.0	37.5	40 600
12.0	73.4	37.2	34 900
14.0	70.1	36.5	25 400
16.0	66.7	35.7	18 900
18.0	63.2	34.7	14 000
20.0	59.6	33.6	10 300
22.0	55.8	32.3	7 300
24.0	51.9	30.8	4 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	67 700 *
7.0	82.1	41.5	65 900 *
8.0	80.6	41.3	60 100 *
9.0	79.1	41.1	52 700 *
10.0	77.7	40.9	45 400 *
11.0	76.2	40.7	39 600 *
12.0	74.7	40.4	34 900 *
14.0	71.6	39.8	25 700
16.0	68.6	39.0	19 200
18.0	65.4	38.1	14 300
20.0	62.2	37.1	10 600
22.0	58.8	36.0	7 600
24.0	55.3	34.6	5 200
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	60 300 *
8.0	81.3	44.4	57 000 *
9.0	79.9	44.2	51 200 *
10.0	78.6	44.0	44 100 *
11.0	77.2	43.8	38 500 *
12.0	75.8	43.6	33 800 *
14.0	73.0	43.0	26 100
16.0	70.2	42.3	19 400
18.0	67.3	41.5	14 600
20.0	64.3	40.6	10 800
22.0	61.3	39.5	7 800
24.0	58.1	38.3	5 400
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	58 000 *
8.0	81.9	47.5	54 700 *
9.0	80.6	47.3	49 700 *
10.0	79.3	47.2	43 000 *
11.0	78.1	46.9	37 500 *
12.0	76.8	46.7	32 900 *
14.0	74.2	46.2	25 700
16.0	71.5	45.5	19 700
18.0	68.9	44.8	14 700
20.0	66.1	43.9	11 000
22.0	63.4	43.0	8 000
24.0	60.5	41.9	5 500

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78, Luffing Jib No. 139

64 410 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	52 800 *
8.0	82.4	50.6	52 500 *
9.0	81.2	50.4	48 100 *
10.0	80.0	50.3	41 900 *
11.0	78.8	50.1	36 400 *
12.0	77.6	49.8	31 900 *
14.0	75.2	49.3	25 000 *
16.0	72.7	48.7	19 600
18.0	70.3	48.0	14 900
20.0	67.7	47.3	11 200
22.0	65.1	46.4	8 100
24.0	62.5	45.4	5 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	49 300 *
8.0	82.8	53.7	49 000 *
9.0	81.7	53.5	44 900 *
10.0	80.6	53.4	40 900 *
11.0	79.5	53.2	35 700 *
12.0	78.4	53.0	31 200 *
14.0	76.1	52.5	24 300 *
16.0	73.8	51.9	19 200 *
18.0	71.5	51.3	15 000
20.0	69.1	50.5	11 200
22.0	66.7	49.7	8 200
24.0	64.3	48.8	5 800

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	110 500 *
5.5	79.3	23.2	98 600 *
6.0	77.9	23.1	88 700 *
7.0	75.2	22.8	72 900 *
8.0	72.3	22.5	60 900 *
9.0	69.5	22.1	51 400 *
10.0	66.6	21.7	43 600
11.0	63.6	21.2	36 300
12.0	60.5	20.6	30 100
14.0	54.0	19.3	20 900
16.0	46.9	17.6	14 500
18.0	38.8	15.3	9 800
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	89 700 *
7.0	77.1	26.0	73 900 *
8.0	74.6	25.7	61 900 *
9.0	72.2	25.4	52 400 *
10.0	69.6	25.0	44 700 *
11.0	67.1	24.6	37 600
12.0	64.5	24.1	31 300
14.0	59.1	23.0	22 100
16.0	53.4	21.6	15 700
18.0	47.2	19.9	11 000
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	89 700 *
7.0	78.5	29.1	74 500 *
8.0	76.4	28.9	62 600 *
9.0	74.2	28.6	53 100 *
10.0	72.0	28.3	45 500 *
11.0	69.8	27.9	38 600
12.0	67.5	27.5	32 300
14.0	62.9	26.5	23 000
16.0	58.0	25.3	16 600
18.0	52.9	23.9	11 800
20.0	47.4	22.2	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	86 300 *
6.0	81.6	32.4	82 000 *
7.0	79.7	32.2	73 400 *
8.0	77.8	32.0	61 800 *
9.0	75.8	31.7	52 800 *
10.0	73.9	31.5	45 800 *
11.0	71.9	31.1	39 400
12.0	69.9	30.8	33 000
14.0	65.8	29.9	23 800
16.0	61.6	28.9	17 200
18.0	57.2	27.7	12 500
20.0	52.5	26.2	8 800
22.0	47.5	24.5	5 800
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	72 500 *
8.0	78.9	35.1	63 200 *
9.0	77.1	34.9	53 900 *
10.0	75.4	34.6	46 300 *
11.0	73.6	34.3	39 800
12.0	71.8	34.0	33 500
14.0	68.1	33.2	24 200
16.0	64.4	32.3	17 700
18.0	60.5	31.3	12 900
20.0	56.4	30.0	9 300
22.0	52.2	28.5	6 300
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	74 600 *
7.0	81.4	38.4	68 700 *
8.0	79.8	38.2	62 000 *
9.0	78.2	38.0	52 600 *
10.0	76.6	37.8	45 500 *
11.0	75.0	37.5	39 600
12.0	73.4	37.2	34 100
14.0	70.1	36.5	24 700
16.0	66.7	35.7	18 200
18.0	63.2	34.7	13 400
20.0	59.6	33.6	9 700
22.0	55.8	32.3	6 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	67 100 *
7.0	82.1	41.5	65 400 *
8.0	80.6	41.3	59 600 *
9.0	79.1	41.1	51 700 *
10.0	77.7	40.9	44 500 *
11.0	76.2	40.7	38 800 *
12.0	74.7	40.4	34 100 *
14.0	71.6	39.8	25 100
16.0	68.6	39.0	18 500
18.0	65.4	38.1	13 700
20.0	62.2	37.1	10 000
22.0	58.8	36.0	7 100
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	59 800 *
8.0	81.3	44.4	56 500 *
9.0	79.9	44.2	50 500 *
10.0	78.6	44.0	43 200 *
11.0	77.2	43.8	37 600 *
12.0	75.8	43.6	33 000 *
14.0	73.0	43.0	25 500
16.0	70.2	42.3	18 800
18.0	67.3	41.5	14 000
20.0	64.3	40.6	10 200
22.0	61.3	39.5	7 300
24.0	58.1	38.3	4 900
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	57 500 *
8.0	81.9	47.5	54 200 *
9.0	80.6	47.3	48 900 *
10.0	79.3	47.2	42 200 *
11.0	78.1	46.9	36 600 *
12.0	76.8	46.7	32 100 *
14.0	74.2	46.2	25 000
16.0	71.5	45.5	19 100
18.0	68.9	44.8	14 100
20.0	66.1	43.9	10 400
22.0	63.4	43.0	7 500
24.0	60.5	41.9	5 100

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	52 300 *
8.0	82.4	50.6	52 000 *
9.0	81.2	50.4	47 400 *
10.0	80.0	50.3	41 100 *
11.0	78.8	50.1	35 600 *
12.0	77.6	49.8	31 200 *
14.0	75.2	49.3	24 300 *
16.0	72.7	48.7	19 000
18.0	70.3	48.0	14 400
20.0	67.7	47.3	10 600
22.0	65.1	46.4	7 700
24.0	62.5	45.4	5 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	48 900 *
8.0	82.8	53.7	48 600 *
9.0	81.7	53.5	44 400 *
10.0	80.6	53.4	40 300 *
11.0	79.5	53.2	34 900 *
12.0	78.4	53.0	30 500 *
14.0	76.1	52.5	23 600 *
16.0	73.8	51.9	18 500 *
18.0	71.5	51.3	14 400
20.0	69.1	50.5	10 700
22.0	66.7	49.7	7 700
24.0	64.3	48.8	5 300

Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	108 500 *
5.5	79.3	23.2	96 700 *
6.0	77.9	23.1	86 900 *
7.0	75.2	22.8	71 100 *
8.0	72.3	22.5	59 100 *
9.0	69.5	22.1	49 600 *
10.0	66.6	21.7	41 900
11.0	63.6	21.2	34 700
12.0	60.5	20.6	28 500
14.0	54.0	19.3	19 400
16.0	46.9	17.6	13 100
18.0	38.8	15.3	8 500
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	97 500 *
6.0	79.5	26.2	87 900 *
7.0	77.1	26.0	72 100 *
8.0	74.6	25.7	60 200 *
9.0	72.2	25.4	50 800 *
10.0	69.6	25.0	43 100 *
11.0	67.1	24.6	36 100
12.0	64.5	24.1	29 900
14.0	59.1	23.0	20 800
16.0	53.4	21.6	14 400
18.0	47.2	19.9	9 700
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	88 400 *
7.0	78.5	29.1	72 900 *
8.0	76.4	28.9	61 000 *
9.0	74.2	28.6	51 600 *
10.0	72.0	28.3	43 900 *
11.0	69.8	27.9	37 100
12.0	67.5	27.5	30 900
14.0	62.9	26.5	21 800
16.0	58.0	25.3	15 400
18.0	52.9	23.9	10 600
20.0	47.4	22.2	7 000

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	72 100 *
8.0	77.8	32.0	60 000 *
9.0	75.8	31.7	51 200 *
10.0	73.9	31.5	44 200 *
11.0	71.9	31.1	38 000
12.0	69.9	30.8	31 700
14.0	65.8	29.9	22 500
16.0	61.6	28.9	16 100
18.0	57.2	27.7	11 300
20.0	52.5	26.2	7 700
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	71 600 *
8.0	78.9	35.1	61 500 *
9.0	77.1	34.9	52 300 *
10.0	75.4	34.6	45 000 *
11.0	73.6	34.3	38 500
12.0	71.8	34.0	32 200
14.0	68.1	33.2	23 000
16.0	64.4	32.3	16 600
18.0	60.5	31.3	11 900
20.0	56.4	30.0	8 200
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	73 700 *
7.0	81.4	38.4	67 900 *
8.0	79.8	38.2	60 300 *
9.0	78.2	38.0	51 100 *
10.0	76.6	37.8	44 000 *
11.0	75.0	37.5	38 200
12.0	73.4	37.2	32 900
14.0	70.1	36.5	23 600
16.0	66.7	35.7	17 100
18.0	63.2	34.7	12 400
20.0	59.6	33.6	8 700
22.0	55.8	32.3	5 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	66 400 *
7.0	82.1	41.5	64 600 *
8.0	80.6	41.3	58 600 *
9.0	79.1	41.1	50 100 *
10.0	77.7	40.9	43 000 *
11.0	76.2	40.7	37 400 *
12.0	74.7	40.4	32 700 *
14.0	71.6	39.8	24 000
16.0	68.6	39.0	17 500
18.0	65.4	38.1	12 700
20.0	62.2	37.1	9 100
22.0	58.8	36.0	6 100
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	59 100 *
8.0	81.3	44.4	55 700 *
9.0	79.9	44.2	48 900 *
10.0	78.6	44.0	41 800 *
11.0	77.2	43.8	36 200 *
12.0	75.8	43.6	31 700 *
14.0	73.0	43.0	24 400
16.0	70.2	42.3	17 800
18.0	67.3	41.5	13 000
20.0	64.3	40.6	9 300
22.0	61.3	39.5	6 400
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	56 700 *
8.0	81.9	47.5	53 400 *
9.0	80.6	47.3	47 700 *
10.0	79.3	47.2	40 800 *
11.0	78.1	46.9	35 300 *
12.0	76.8	46.7	30 800 *
14.0	74.2	46.2	23 800
16.0	71.5	45.5	18 200
18.0	68.9	44.8	13 200
20.0	66.1	43.9	9 500
22.0	63.4	43.0	6 600



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	51 600 *
8.0	82.4	50.6	51 300 *
9.0	81.2	50.4	46 300 *
10.0	80.0	50.3	39 700 *
11.0	78.8	50.1	34 300 *
12.0	77.6	49.8	29 900 *
14.0	75.2	49.3	23 000 *
16.0	72.7	48.7	17 900
18.0	70.3	48.0	13 500
20.0	67.7	47.3	9 700
22.0	65.1	46.4	6 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	48 300 *
8.0	82.8	53.7	47 900 *
9.0	81.7	53.5	43 700 *
10.0	80.6	53.4	39 200 *
11.0	79.5	53.2	33 700 *
12.0	78.4	53.0	29 200 *
14.0	76.1	52.5	22 500 *
16.0	73.8	51.9	17 400 *
18.0	71.5	51.3	13 500 *
20.0	69.1	50.5	9 900
22.0	66.7	49.7	6 900



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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	119 500 *
5.0	80.7	23.3	106 600 *
5.5	79.3	23.2	95 000 *
6.0	77.9	23.1	85 200 *
7.0	75.2	22.8	69 400 *
8.0	72.3	22.5	57 500 *
9.0	69.5	22.1	48 100 *
10.0	66.6	21.7	40 400
11.0	63.6	21.2	33 200
12.0	60.5	20.6	27 100
14.0	54.0	19.3	18 100
16.0	46.9	17.6	11 800
18.0	38.8	15.3	7 200
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	96 100 *
6.0	79.5	26.2	86 300 *
7.0	77.1	26.0	70 600 *
8.0	74.6	25.7	58 700 *
9.0	72.2	25.4	49 300 *
10.0	69.6	25.0	41 700 *
11.0	67.1	24.6	34 700
12.0	64.5	24.1	28 600
14.0	59.1	23.0	19 500
16.0	53.4	21.6	13 200
18.0	47.2	19.9	8 500
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	87 100 *
7.0	78.5	29.1	71 400 *
8.0	76.4	28.9	59 500 *
9.0	74.2	28.6	50 200 *
10.0	72.0	28.3	42 600 *
11.0	69.8	27.9	35 800
12.0	67.5	27.5	29 700
14.0	62.9	26.5	20 600
16.0	58.0	25.3	14 300
18.0	52.9	23.9	9 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
5.5	82.6	32.5	84 600 *
6.0	81.6	32.4	80 300 *
7.0	79.7	32.2	70 700 *
8.0	77.8	32.0	58 500 *
9.0	75.8	31.7	49 700 *
10.0	73.9	31.5	42 700 *
11.0	71.9	31.1	36 800
12.0	69.9	30.8	30 600
14.0	65.8	29.9	21 400
16.0	61.6	28.9	15 000
18.0	57.2	27.7	10 400
20.0	52.5	26.2	6 700
33.5m (110 Ft.) BOOM			
5.8	82.7	35.5	80 500 *
6.0	82.4	35.5	78 700 *
7.0	80.6	35.3	70 700 *
8.0	78.9	35.1	60 000 *
9.0	77.1	34.9	50 800 *
10.0	75.4	34.6	43 600 *
11.0	73.6	34.3	37 300
12.0	71.8	34.0	31 100
14.0	68.1	33.2	22 000
16.0	64.4	32.3	15 600
18.0	60.5	31.3	10 900
20.0	56.4	30.0	7 300
36.6m (120 Ft.) BOOM			
6.1	82.9	38.5	73 200 *
7.0	81.4	38.4	67 200 *
8.0	79.8	38.2	58 700 *
9.0	78.2	38.0	49 600 *
10.0	76.6	37.8	42 600 *
11.0	75.0	37.5	36 900 *
12.0	73.4	37.2	31 800
14.0	70.1	36.5	22 600
16.0	66.7	35.7	16 200
18.0	63.2	34.7	11 500
20.0	59.6	33.6	7 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
6.7	82.5	41.5	65 800 *
7.0	82.1	41.5	64 000 *
8.0	80.6	41.3	57 900 *
9.0	79.1	41.1	48 700 *
10.0	77.7	40.9	41 700 *
11.0	76.2	40.7	36 100 *
12.0	74.7	40.4	31 500 *
14.0	71.6	39.8	23 000
16.0	68.6	39.0	16 600
18.0	65.4	38.1	11 900
20.0	62.2	37.1	8 200
42.7m (140 Ft.) BOOM			
7.3	82.2	44.5	58 500 *
8.0	81.3	44.4	55 100 *
9.0	79.9	44.2	47 500 *
10.0	78.6	44.0	40 500 *
11.0	77.2	43.8	35 100 *
12.0	75.8	43.6	30 500 *
14.0	73.0	43.0	23 300
16.0	70.2	42.3	16 900
18.0	67.3	41.5	12 200
20.0	64.3	40.6	8 500
22.0	61.3	39.5	5 600
45.7m (150 Ft.) BOOM			
7.3	82.8	47.6	56 200 *
8.0	81.9	47.5	52 900 *
9.0	80.6	47.3	46 500 *
10.0	79.3	47.2	39 600 *
11.0	78.1	46.9	34 200 *
12.0	76.8	46.7	29 700 *
14.0	74.2	46.2	22 800 *
16.0	71.5	45.5	17 300
18.0	68.9	44.8	12 400
20.0	66.1	43.9	8 800
22.0	63.4	43.0	5 800



Liftcrane Boom Capacities With Luffing Jib Attached

Meets
ANSI B30.5
Requirements

777 SERIES 2

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

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
48.8m (160 Ft.) BOOM			
7.9	82.5	50.6	51 100 *
8.0	82.4	50.6	50 800 *
9.0	81.2	50.4	45 200 *
10.0	80.0	50.3	38 500 *
11.0	78.8	50.1	33 200 *
12.0	77.6	49.8	28 800 *
14.0	75.2	49.3	22 000 *
16.0	72.7	48.7	16 900 *
18.0	70.3	48.0	12 700
20.0	67.7	47.3	9 000
22.0	65.1	46.4	6 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
7.9	82.9	53.7	47 800 *
8.0	82.8	53.7	47 400 *
9.0	81.7	53.5	43 200 *
10.0	80.6	53.4	37 900 *
11.0	79.5	53.2	32 500 *
12.0	78.4	53.0	28 200 *
14.0	76.1	52.5	21 400 *
16.0	73.8	51.9	16 400 *
18.0	71.5	51.3	12 500 *
20.0	69.1	50.5	9 100
22.0	66.7	49.7	6 200