

Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 82 or 22EL
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

999 SERIES 3

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 over end of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*). Capacities indicated by (b) require 5 670 kg minimum weight.

Upper boom point capacity for liftcrane service with single part whip line is 13 380 kg or 26 760 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

76.2m thru 88.4m boom lengths require only the middle two sheaves in lower boom point. All other sheaves must be removed from lower boom point.

Note: 22L boom top **No. 196142** or **No. 417403** required for capacities greater than or equal to 219 900 kg.

Weight of jib, all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is considered part of main boom load. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. Drive and idler tumbler must be properly blocked so

that centerline of tumbler becomes tipping fulcrum. Swing is limited to that sector shown on Operating Range Diagram **No. 8224-A**. Refer to boom rigging **No. 195459** (No. 82) or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8223-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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

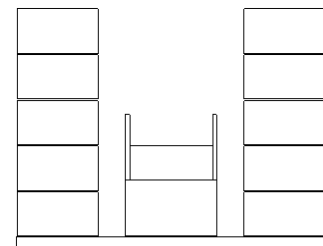
MACHINE EQUIPMENT: Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps or four 35 mm boom pendants, 99 610 kg crane counterweight, two 9 980 kg and two 8 165 kg carbody counterweights.

Boom Catwalks Deduct

Deduct 300 kg from capacities when boom catwalks are attached.

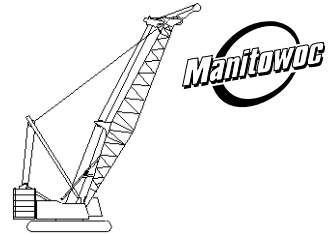
Maximum Boom and Jib Lengths Lifted Unassisted Over End of Blocked Crawlers	
Boom Length	Jib No. 134
(a) 88.4m	—
85.3m	—
82.3m	9.1m
79.2m	18.3m
76.2m	24.4m
Load block, hook and weight ball on ground at start.	
(a) Upper boom point cannot be used on 88.4m boom.	

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
9.1m	1 220 kg
12.2m	1 590 kg
15.2m	1 950 kg
18.3m	2 310 kg
21.3m	2 770 kg
24.4m	3 220 kg



99 610 kg Crane Counterweight
10 Side Boxes - 1 Center Box

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached.



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Oper. Rad. Meters	Boom Capacity Kilograms
18.3m (60 Ft.) BOOM	
4.6	250 000* ^{b 1}

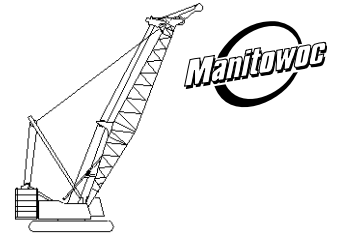
¹ Note: Special equipment required.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.9	82.8	23.5	226 700 * ^{b 2}
5.0	82.5	23.5	219 900 * ^{b 2}
5.5	81.1	23.4	198 500 * ^b
6.0	79.7	23.3	183 000 * ^b
7.0	77.0	23.1	158 000 * ^b
8.0	74.2	22.8	139 000 *
9.0	71.3	22.5	123 800 *
10.0	68.4	22.1	111 500 *
11.0	65.5	21.6	101 300 *
12.0	62.5	21.1	92 800 *
13.0	59.3	20.5	85 500 *
14.0	56.1	19.8	78 900 *
15.0	52.7	19.0	70 900 *
16.0	49.1	18.2	63 900 *
18.0	41.3	16.0	52 400 *
20.0	31.9	13.2	42 700 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	203 000 * ^b
5.5	82.2	26.5	198 300 * ^b
6.0	81.0	26.4	182 700 * ^b
7.0	78.6	26.2	157 800 * ^b
8.0	76.2	26.0	138 700 *
9.0	73.8	25.7	123 500 *
10.0	71.3	25.3	111 300 *
11.0	68.8	24.9	101 100 *
12.0	66.2	24.5	92 600 *
13.0	63.5	24.0	85 300 *
14.0	60.9	23.4	79 000 *
15.0	58.1	22.8	73 400 *
16.0	55.2	22.1	67 600 *
18.0	49.1	20.5	55 500 *
20.0	42.4	18.4	46 500 *
22.0	34.5	15.7	38 800 *
24.0	24.5	11.9	31 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	182 800 * ^b
6.0	82.0	29.5	180 700 * ^b
7.0	79.9	29.4	157 500 * ^b
8.0	77.8	29.1	138 500 *
9.0	75.6	28.9	123 400 *
10.0	73.4	28.6	111 100 *
11.0	71.2	28.2	100 900 *
12.0	69.0	27.8	92 400 *
13.0	66.7	27.4	85 100 *
14.0	64.4	26.9	78 800 *
15.0	62.0	26.4	73 300 *
16.0	59.6	25.8	68 300 *
18.0	54.5	24.4	58 000 *
20.0	49.1	22.8	48 800 *
22.0	43.2	20.7	41 500 *
24.0	36.4	18.2	35 300 *
26.0	28.3	14.9	29 700 *
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	175 000 * ^b
7.0	80.9	32.5	158 000 * ^b
8.0	79.0	32.3	138 400 *
9.0	77.1	32.0	123 300 *
10.0	75.1	31.7	111 000 *
11.0	73.2	31.4	100 800 *
12.0	71.2	31.1	92 300 *
13.0	69.2	30.7	85 000 *
14.0	67.1	30.3	78 700 *
15.0	65.1	29.8	73 200 *
16.0	62.9	29.3	68 400 *
18.0	58.6	28.1	59 600 *
20.0	54.0	26.7	50 700 *
22.0	49.1	25.1	43 400 *
24.0	43.8	23.1	37 400 *
26.0	37.9	20.6	32 200 *
28.0	31.0	17.6	27 600 *
30.0	22.2	13.4	23 100 *
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	160 400 *
7.0	81.8	35.5	155 700 *
8.0	80.0	35.4	138 100 *
9.0	78.3	35.2	123 000 *
10.0	76.5	34.9	110 800 *
11.0	74.8	34.6	100 600 *
12.0	73.0	34.3	92 100 *
13.0	71.2	34.0	84 800 *
14.0	69.3	33.6	78 500 *
15.0	67.5	33.2	73 000 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
16.0	65.6	32.7	68 200 *
18.0	61.7	31.7	60 100 *
20.0	57.7	30.5	52 100 *
22.0	53.5	29.0	44 700 *
24.0	49.1	27.4	38 700 *
26.0	44.3	25.4	33 700 *
28.0	39.0	23.0	29 300 *
30.0	33.1	20.2	25 300 *
32.0	25.8	16.5	21 700 *
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	147 100 *
7.0	82.5	38.6	147 100 *
8.0	80.9	38.5	138 200 *
9.0	79.3	38.3	122 900 *
10.0	77.7	38.1	110 600 *
11.0	76.1	37.8	100 500 *
12.0	74.4	37.5	91 900 *
13.0	72.8	37.2	84 600 *
14.0	71.1	36.9	78 400 *
15.0	69.5	36.5	72 900 *
16.0	67.8	36.1	68 000 *
18.0	64.3	35.1	59 900 *
20.0	60.7	34.0	52 400 *
22.0	57.0	32.8	45 700 *
24.0	53.2	31.3	39 900 *
26.0	49.1	29.7	34 800 *
28.0	44.7	27.7	30 500 *
30.0	40.0	25.4	26 700 *
32.0	34.7	22.7	23 400 *
34.0	28.5	19.3	20 200 *
36.0	20.6	14.7	17 100 *

² See note on page 1.



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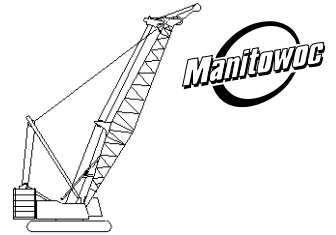
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99 610 kg Crane Counterweight
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	133 800 *
8.0	81.6	41.6	133 200 *
9.0	80.1	41.4	123 200 *
10.0	78.6	41.2	110 500 *
11.0	77.2	40.9	100 300 *
12.0	75.7	40.7	91 800 *
13.0	74.2	40.4	84 500 *
14.0	72.6	40.1	78 200 *
15.0	71.1	39.7	72 700 *
16.0	69.6	39.4	67 900 *
18.0	66.4	38.5	59 800 *
20.0	63.2	37.5	52 300 *
22.0	59.9	36.4	45 800 *
24.0	56.4	35.1	40 500 *
26.0	52.8	33.6	35 800 *
28.0	49.1	32.0	31 500 *
30.0	45.1	30.0	27 700 *
32.0	40.7	27.8	24 500 *
34.0	36.0	25.2	21 500 *
36.0	30.5	22.0	18 800 *
38.0	24.0	18.0	16 200 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	133 800 *
8.0	82.2	44.6	133 200 *
9.0	80.8	44.5	123 100 *
10.0	79.5	44.3	110 300 *
11.0	78.1	44.1	100 200 *
12.0	76.7	43.8	91 700 *
13.0	75.3	43.6	84 400 *
14.0	73.9	43.3	78 100 *
15.0	72.5	43.0	72 600 *
16.0	71.1	42.6	67 800 *
18.0	68.2	41.8	59 700 *
20.0	65.3	40.9	52 300 *
22.0	62.2	39.9	45 700 *
24.0	59.1	38.7	40 400 *
26.0	55.9	37.4	36 100 *
28.0	52.6	35.9	32 200 *
30.0	49.1	34.3	28 500 *
32.0	45.4	32.3	25 200 *
34.0	41.4	30.2	22 400 *
36.0	37.0	27.6	19 800 *
38.0	32.2	24.6	17 400 *
40.0	26.6	20.9	15 100 *
42.0	19.4	16.0	12 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	120 400 *
8.0	82.7	47.7	120 100 *
9.0	81.4	47.6	116 600 *
10.0	80.2	47.4	110 600 *
11.0	78.9	47.2	99 900 *
12.0	77.6	47.0	91 400 *
13.0	76.3	46.7	84 100 *
14.0	75.0	46.5	77 800 *
15.0	73.7	46.2	72 300 *
16.0	72.4	45.8	67 500 *
18.0	69.7	45.1	59 400 *
20.0	67.0	44.3	52 100 *
22.0	64.3	43.3	45 500 *
24.0	61.4	42.3	40 300 *
26.0	58.5	41.1	36 000 *
28.0	55.5	39.7	32 300 *
30.0	52.3	38.2	29 000 *
32.0	49.1	36.6	25 700 *
34.0	45.6	34.7	22 900 *
36.0	41.9	32.5	20 300 *
38.0	37.9	30.0	18 100 *
40.0	33.6	27.2	15 900 *
42.0	28.6	23.7	13 900 *
44.0	22.6	19.4	11 900 *
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	107 000 *
9.0	82.0	50.7	107 000 *
10.0	80.8	50.5	106 600 *
11.0	79.6	50.3	99 800 *
12.0	78.4	50.1	91 200 *
13.0	77.2	49.9	83 900 *
14.0	76.0	49.6	77 600 *
15.0	74.8	49.3	72 200 *
16.0	73.5	49.0	67 300 *
18.0	71.1	48.4	59 200 *
20.0	68.5	47.6	52 000 *
22.0	66.0	46.7	45 400 *
24.0	63.4	45.7	40 100 *
26.0	60.7	44.7	35 800 *
28.0	57.9	43.4	32 200 *
30.0	55.1	42.1	29 100 *
32.0	52.1	40.5	26 200 *
34.0	49.1	38.9	23 400 *
36.0	45.8	37.0	20 800 *
38.0	42.4	34.8	18 600 *
40.0	38.7	32.4	16 500 *
42.0	34.7	29.7	14 600 *
44.0	30.2	26.4	12 800 *
46.0	25.0	22.5	11 100 *
48.0	18.5	17.3	9 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	105 500 *
9.0	82.5	53.7	104 000 *
10.0	81.3	53.6	100 800 *
11.0	80.2	53.4	97 700 *
12.0	79.1	53.2	91 200 *
13.0	78.0	53.0	83 800 *
14.0	76.8	52.8	77 500 *
15.0	75.7	52.5	72 000 *
16.0	74.5	52.2	67 100 *
18.0	72.2	51.6	59 100 *
20.0	69.9	50.9	52 000 *
22.0	67.5	50.1	45 300 *
24.0	65.1	49.2	40 000 *
26.0	62.6	48.1	35 700 *
28.0	60.0	47.0	32 100 *
30.0	57.4	45.8	29 000 *
32.0	54.7	44.4	26 400 *
34.0	52.0	42.8	23 700 *
36.0	49.1	41.2	21 200 *
38.0	46.0	39.3	19 000 *
40.0	42.8	37.2	17 000 *
42.0	39.4	34.8	15 100 *
44.0	35.7	32.1	13 400 *
46.0	31.6	29.1	11 800 *
48.0	27.0	25.4	10 300 *
50.0	21.5	20.8	8 700 *



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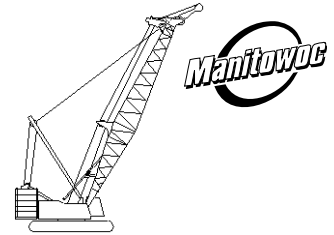
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	93 600 *
10.0	81.8	56.7	93 600 *
11.0	80.8	56.5	92 700 *
12.0	79.7	56.3	89 300 *
13.0	78.6	56.1	83 400 *
14.0	77.6	55.9	77 200 *
15.0	76.5	55.7	71 800 *
16.0	75.4	55.4	67 000 *
18.0	73.2	54.8	58 900 *
20.0	71.0	54.1	51 800
22.0	68.8	53.4	45 200
24.0	66.5	52.5	39 900
26.0	64.2	51.6	35 600
28.0	61.9	50.5	32 000
30.0	59.5	49.4	28 900
32.0	57.0	48.1	26 200
34.0	54.4	46.7	23 900
36.0	51.8	45.1	21 600 *
38.0	49.0	43.5	19 300 *
40.0	46.2	41.6	17 300 *
42.0	43.2	39.5	15 400 *
44.0	40.0	37.2	13 800 *
46.0	36.6	34.6	12 200 *
48.0	32.8	31.6	10 800 *
50.0	28.6	28.2	9 400 *
52.0	23.8	24.0	8 000 *
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	89 200 *
10.0	82.3	59.8	88 600 *
11.0	81.3	59.6	86 300 *
12.0	80.3	59.4	81 400 *
13.0	79.2	59.2	76 300 *
14.0	78.2	59.0	72 000 *
15.0	77.2	58.8	68 300 *
16.0	76.2	58.5	64 700 *
18.0	74.2	58.0	57 300 *
20.0	72.1	57.4	51 200
22.0	70.0	56.6	45 100
24.0	67.8	55.8	39 700
26.0	65.7	55.0	35 400
28.0	63.5	54.0	31 800
30.0	61.2	52.9	28 700
32.0	58.9	51.7	26 000
34.0	56.6	50.4	23 800
36.0	54.1	49.0	21 700
38.0	51.6	47.5	19 600 *
40.0	49.0	45.8	17 600 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
42.0	46.3	43.9	15 800 *
44.0	43.5	41.8	14 100 *
46.0	40.5	39.6	12 500 *
48.0	37.3	37.0	11 100 *
50.0	33.9	34.2	9 800 *
52.0	30.0	30.9	8 500 *
54.0	25.7	27.0	7 300 *
56.0	20.5	22.1	6 000 *
61.0m (200 Ft.) BOOM			
9.8	82.9	62.9	80 200 *
10.0	82.7	62.8	80 200 *
11.0	81.7	62.7	80 200 *
12.0	80.7	62.5	78 800 *
13.0	79.8	62.3	74 100 *
14.0	78.8	62.1	69 900 *
15.0	77.9	61.9	66 300 *
16.0	76.9	61.7	63 000 *
18.0	75.0	61.2	56 200 *
20.0	73.0	60.6	50 300
22.0	71.0	59.9	45 000
24.0	69.0	59.1	39 600
26.0	67.0	58.3	35 200
28.0	64.9	57.4	31 600
30.0	62.8	56.4	28 500
32.0	60.7	55.3	25 900
34.0	58.5	54.1	23 600
36.0	56.2	52.7	21 600
38.0	53.9	51.3	19 800
40.0	51.5	49.8	17 700 *
42.0	49.0	48.1	15 900 *
44.0	46.5	46.2	14 300 *
46.0	43.8	44.2	12 700 *
48.0	41.0	41.9	11 300 *
50.0	38.0	39.4	10 000 *
52.0	34.8	36.7	8 800 *
54.0	31.2	33.5	7 600 *
56.0	27.3	29.8	6 500 *
58.0	22.8	25.4	5 400 *
64.0m (210 Ft.) BOOM			
10.4	82.7	65.9	77 700 *
11.0	82.1	65.8	76 700 *
12.0	81.2	65.6	74 900 *
13.0	80.3	65.4	72 100 *
14.0	79.4	65.2	67 900 *
15.0	78.5	65.0	64 400 *
16.0	77.5	64.8	61 300 *
18.0	75.7	64.3	55 100 *
20.0	73.8	63.8	49 300 *
22.0	72.0	63.1	44 400
24.0	70.1	62.4	39 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 Ft.) BOOM			
26.0	68.1	61.6	35 100
28.0	66.2	60.7	31 500
30.0	64.2	59.8	28 400
32.0	62.2	58.8	25 800
34.0	60.1	57.6	23 400
36.0	58.0	56.4	21 400
38.0	55.9	55.1	19 600
40.0	53.7	53.6	17 900 *
42.0	51.4	52.1	16 100 *
44.0	49.0	50.4	14 400 *
46.0	46.6	48.5	12 900 *
48.0	44.1	46.5	11 500 *
50.0	41.4	44.3	10 200 *
52.0	38.6	41.8	9 000 *
54.0	35.6	39.1	7 900 *
56.0	32.3	36.1	6 800 *
58.0	28.7	32.6	5 800 *
60.0	24.6	28.5	4 800 *
62.0	19.7	23.4	3 800 *
67.1m (220 Ft.) BOOM			
10.4	83.0	68.9	70 300 *
11.0	82.5	68.9	70 100 *
12.0	81.6	68.7	69 800 *
13.0	80.7	68.5	69 100 *
14.0	79.9	68.4	66 000 *
15.0	79.0	68.2	62 400 *
16.0	78.1	67.9	59 400 *
18.0	76.4	67.5	53 800 *
20.0	74.6	66.9	48 300 *
22.0	72.8	66.3	43 600 *
24.0	71.0	65.6	39 300
26.0	69.2	64.9	34 900
28.0	67.3	64.1	31 300
30.0	65.5	63.2	28 200
32.0	63.6	62.2	25 600
34.0	61.6	61.1	23 200
36.0	59.6	60.0	21 300
38.0	57.6	58.7	19 500
40.0	55.6	57.4	17 900
42.0	53.5	55.9	16 200 *
44.0	51.3	54.4	14 500 *
46.0	49.0	52.7	13 000 *
48.0	46.7	50.8	11 600 *
50.0	44.3	48.8	10 300 *
52.0	41.8	46.6	9 100 *
54.0	39.1	44.2	8 000 *
56.0	36.3	41.6	7 000 *
58.0	33.2	38.6	6 000 *
60.0	29.9	35.3	5 100 *
62.0	26.2	31.4	4 100 *
64.0	21.9	26.8	3 200 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

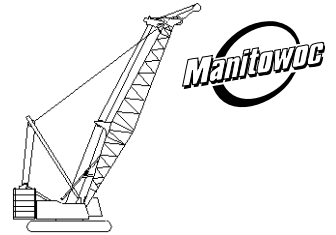
Boom No. 82 or 22EL
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

999 SERIES 3

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70.1m (230 Ft.) BOOM			
11.0	82.8	71.9	63 100 *
12.0	82.0	71.8	62 800 *
13.0	81.1	71.6	62 500 *
14.0	80.3	71.5	62 100 *
15.0	79.5	71.3	60 700 *
16.0	78.6	71.1	58 000 *
18.0	77.0	70.6	52 700 *
20.0	75.3	70.1	47 300 *
22.0	73.6	69.5	42 700 *
24.0	71.9	68.9	38 800 *
26.0	70.1	68.2	34 700 *
28.0	68.4	67.4	31 100 *
30.0	66.6	66.5	28 000 *
32.0	64.8	65.6	25 400 *
34.0	63.0	64.6	23 100 *
36.0	61.1	63.5	21 000 *
38.0	59.2	62.3	19 300 *
40.0	57.3	61.1	17 700 *
42.0	55.3	59.7	16 100 *
44.0	53.3	58.2	14 500 *
46.0	51.2	56.7	12 900 *
48.0	49.0	55.0	11 600 *
50.0	46.8	53.1	10 300 *
52.0	44.5	51.1	9 100 *
54.0	42.1	49.0	8 000 *
56.0	39.6	46.6	7 000 *
58.0	36.9	44.0	6 100 *
60.0	34.0	41.1	5 100 *
62.0	30.9	37.9	4 200 *
64.0	27.5	34.3	3 400 *
66.0	23.7	30.0	2 600 *
73.2m (240 Ft.) BOOM			
11.6	82.6	74.9	57 200 *
12.0	82.3	74.9	57 100 *
13.0	81.5	74.7	56 800 *
14.0	80.7	74.5	56 500 *
15.0	79.9	74.4	56 200 *
16.0	79.1	74.2	55 300 *
18.0	77.5	73.7	51 400 *
20.0	75.9	73.2	46 400 *
22.0	74.3	72.7	41 800 *
24.0	72.6	72.1	38 000 *
26.0	71.0	71.4	34 600 *
28.0	69.3	70.7	30 900 *
30.0	67.6	69.8	27 800 *
32.0	65.9	69.0	25 200 *
34.0	64.2	68.0	22 900 *
36.0	62.4	67.0	20 800 *
38.0	60.6	65.9	19 100 *
40.0	58.8	64.7	17 500 *
42.0	56.9	63.4	16 000 *
44.0	55.0	62.0	14 500 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73.2m (240 Ft.) BOOM			
46.0	53.1	60.5	13 000 *
48.0	51.1	59.0	11 600 *
50.0	49.0	57.3	10 300 *
52.0	46.9	55.4	9 100 *
54.0	44.7	53.4	8 100 *
56.0	42.4	51.3	7 000 *
58.0	40.0	49.0	6 100 *
60.0	37.5	46.4	5 200 *
62.0	34.8	43.6	4 400 *
64.0	31.9	40.5	3 500 *
66.0	28.7	37.0	2 800 *
76.2m (250 Ft.) BOOM			
11.6	82.9	78.0	51 900 *
12.0	82.6	77.9	51 800 *
13.0	81.9	77.8	51 500 *
14.0	81.1	77.6	51 200 *
15.0	80.3	77.5	50 900 *
16.0	79.6	77.3	50 600 *
18.0	78.0	76.9	49 500 *
20.0	76.5	76.4	46 000 *
22.0	74.9	75.9	41 500 *
24.0	73.4	75.3	37 700 *
26.0	71.8	74.6	34 500 *
28.0	70.2	73.9	31 100 *
30.0	68.6	73.1	28 000 *
32.0	66.9	72.3	25 400 *
34.0	65.3	71.4	23 000 *
36.0	63.6	70.4	21 000 *
38.0	61.9	69.4	19 200 *
40.0	60.2	68.2	17 600 *
42.0	58.4	67.0	16 200 *
44.0	56.6	65.7	14 900 *
46.0	54.8	64.3	13 400 *
48.0	52.9	62.9	12 100 *
50.0	51.0	61.3	10 800 *
52.0	49.0	59.6	9 600 *
54.0	47.0	57.7	8 500 *
56.0	44.9	55.7	7 500 *
58.0	42.7	53.6	6 600 *
60.0	40.4	51.3	5 700 *
62.0	38.0	48.8	4 900 *
64.0	35.4	46.1	4 100 *
66.0	32.7	43.1	3 300 *
68.0	29.8	39.7	2 600 *
70.0	26.5	35.9	1 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79.2m (260 Ft.) BOOM			
12.2	82.8	81.0	47 300 *
13.0	82.2	80.9	47 000 *
14.0	81.4	80.7	46 800 *
15.0	80.7	80.6	46 500 *
16.0	80.0	80.4	46 200 *
18.0	78.5	80.0	45 500 *
20.0	77.0	79.5	44 200 *
22.0	75.5	79.0	40 800 *
24.0	74.0	78.5	36 900 *
26.0	72.5	77.8	33 700 *
28.0	71.0	77.2	30 800 *
30.0	69.4	76.4	27 800 *
32.0	67.9	75.6	25 200 *
34.0	66.3	74.8	22 800 *
36.0	64.7	73.8	20 800 *
38.0	63.1	72.8	19 000 *
40.0	61.5	71.7	17 400 *
42.0	59.8	70.6	16 000 *
44.0	58.1	69.4	14 700 *
46.0	56.4	68.1	13 400 *
48.0	54.6	66.7	12 000 *
50.0	52.8	65.2	10 700 *
52.0	50.9	63.6	9 600 *
54.0	49.0	61.9	8 500 *
56.0	47.1	60.0	7 500 *
58.0	45.0	58.1	6 500 *
60.0	42.9	56.0	5 700 *
62.0	40.8	53.7	4 800 *
64.0	38.5	51.2	4 100 *
66.0	36.0	48.5	3 300 *
68.0	33.5	45.6	2 600 *
70.0	30.7	42.4	1 900 *



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

Boom No. 82 or 22EL
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
Rating Over End of Blocked Crawlers
No Travel - Limited Swing

999 SERIES 3

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
82.3m (270 Ft.) BOOM			
12.2	83.0	84.1	43 100 *
13.0	82.5	84.0	42 900 *
14.0	81.8	83.8	42 600 *
15.0	81.1	83.7	42 300 *
16.0	80.3	83.5	42 100 *
18.0	78.9	83.1	41 500 *
20.0	77.5	82.7	40 800 *
22.0	76.1	82.2	39 300 *
24.0	74.6	81.6	36 200 *
26.0	73.2	81.0	33 000 *
28.0	71.7	80.4	30 200 *
30.0	70.2	79.7	27 600
32.0	68.7	78.9	24 900
34.0	67.2	78.1	22 600
36.0	65.7	77.2	20 600
38.0	64.2	76.2	18 800
40.0	62.6	75.2	17 200
42.0	61.0	74.1	15 800
44.0	59.4	73.0	14 500
46.0	57.8	71.7	13 300
48.0	56.1	70.4	11 900 *
50.0	54.4	69.0	10 700 *
52.0	52.6	67.5	9 500 *
54.0	50.9	65.9	8 400 *
56.0	49.0	64.2	7 400 *
58.0	47.1	62.3	6 400 *
60.0	45.2	60.4	5 600 *
62.0	43.2	58.3	4 700 *
64.0	41.1	56.0	3 900 *
66.0	38.9	53.6	3 200 *
68.0	36.6	51.0	2 500 *
70.0	34.2	48.1	1 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85.3m (280 Ft.) BOOM			
12.8	82.9	87.1	38 900 *
13.0	82.7	87.0	38 800 *
14.0	82.1	86.9	38 600 *
15.0	81.4	86.7	38 300 *
16.0	80.7	86.6	38 100 *
18.0	79.3	86.2	37 500 *
20.0	78.0	85.8	37 000 *
22.0	76.6	85.3	36 100 *
24.0	75.2	84.8	33 900 *
26.0	73.8	84.2	31 800 *
28.0	72.4	83.6	29 700 *
30.0	71.0	82.9	27 200 *
32.0	69.5	82.2	24 800
34.0	68.1	81.4	22 400
36.0	66.6	80.5	20 400
38.0	65.2	79.6	18 600
40.0	63.7	78.6	17 000
42.0	62.1	77.6	15 600
44.0	60.6	76.5	14 300
46.0	59.1	75.3	13 100
48.0	57.5	74.0	11 900 *
50.0	55.9	72.7	10 600 *
52.0	54.2	71.3	9 400 *
54.0	52.5	69.8	8 300 *
56.0	50.8	68.2	7 300 *
58.0	49.0	66.5	6 400 *
60.0	47.2	64.6	5 500 *
62.0	45.3	62.7	4 700 *
64.0	43.4	60.6	3 900 *
66.0	41.4	58.4	3 200 *
68.0	39.3	56.0	2 500 *
70.0	37.1	53.4	1 800 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
88.4m (290 Ft.) BOOM			
13.4	82.7	90.1	35 400 *
14.0	82.3	90.0	35 300 *
15.0	81.7	89.8	35 000 *
16.0	81.0	89.7	34 800 *
18.0	79.7	89.3	34 300 *
20.0	78.4	88.9	33 700 *
22.0	77.1	88.5	33 200 *
24.0	75.7	88.0	31 900 *
26.0	74.4	87.4	29 800 *
28.0	73.0	86.8	28 000 *
30.0	71.7	86.1	26 100 *
32.0	70.3	85.4	24 300 *
34.0	68.9	84.7	22 300
36.0	67.5	83.9	20 200
38.0	66.1	83.0	18 400
40.0	64.6	82.0	16 900
42.0	63.2	81.0	15 400
44.0	61.7	80.0	14 100
46.0	60.2	78.9	12 900
48.0	58.7	77.7	11 800
50.0	57.2	76.4	10 500 *
52.0	55.6	75.0	9 300 *
54.0	54.0	73.6	8 200 *
56.0	52.4	72.1	7 200 *
58.0	50.7	70.5	6 300 *
60.0	49.0	68.8	5 400 *
62.0	47.3	66.9	4 600 *
64.0	45.5	65.0	3 800 *
66.0	43.6	62.9	3 100 *
68.0	41.7	60.7	2 400 *
70.0	39.7	58.4	1 800 *