

Liftcrane Boom Capacities

Boom No. 82 or 22EL
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(includes all jib lengths)

14 m/s with 21.3m thru 54.9m Boom
10 m/s with 57.9m thru 73.2m Boom
7 m/s with 76.2m thru 88.4m Boom

999 SERIES 3

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4.0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*). 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.

Weight of jib, all load blocks, hooks, weight ball, slings, etc., beneath boom and jib point sheaves, is considered part of main boom load. Reeved hoist line included in boom weight. 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. Refer to boom rigging **No. 195459** or **No. A17399** (No. 82), or **No. 195890** (No. 22EL) and Wire Rope Specification chart **No. 8264-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

WIND CONDITIONS: Machine may be operated in winds stated in Maximum Operating Wind Speed table provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind will have a considerable effect on load with a large "sail area" and must be compensated for accordingly by reducing load ratings, reducing operating speeds, or by a combination of both. Wind speed to be measured at boom point elevation.

Operation is not permitted when wind is above conditions stated in Maximum Operating Wind Speed table. Park crane (upper inline with crawlers) with load block on ground or secured and position boom at 70 degrees. Lower boom onto blocking at ground level when wind is above 22 m/s.

MACHINE TRAVEL: Machine to travel on a firm, level [up to 1 percent (0.5 degrees) grade] and uniformly supporting surface. *Travel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0.4 m/s. Boom must be within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8225-B**.

MAX PERMISSIBLE SLEWING SPEED: Slewing operation with working load shall not exceed 0.4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2.5 seconds.

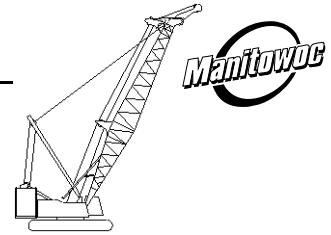
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

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

MACHINE EQUIPMENT: Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps or four 35 mm boom pendants, 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.



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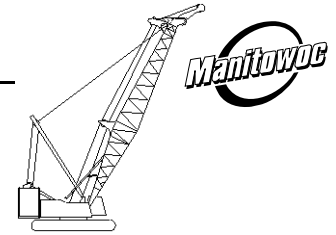
Maximum Boom and Jib Length Raising							
WITHOUT BOOM CATWALKS				WITH BOOM CATWALKS			
Over End of Blocked Crawlers		Over Side of Crawlers		Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 88.4m	—	(a)(b)(c) 88.4m	—	(a) 88.4m	—	(a)(b)(c) 88.4m	—
85.3m	—	(a)(b) 85.3m	—	85.3m	—	(b)(c) 85.3m	—
82.3m	9.1m	(c) 82.3m	9.1m	82.3m	9.1m	(b) 82.3m	—
79.2m	18.3m	(c) 79.2m	12.2m - 18.3m	79.2m	18.3m	(c) 79.2m	9.1m - 18.3m
76.2m	24.4m	(b) 79.2m	9.1m	76.2m	24.4m	(c) 76.2m	18.3m - 24.4m
		(c) 76.2m	21.3m - 24.4m			76.2m	15.2m
		(b) 76.2m	18.3m			(c) 73.2m	21.3m - 24.4m
		76.2m	15.2m			73.2m	18.3m
		(c) 73.2m	24.4m			70.1m	24.4m
		73.2m	21.3m				
		70.1m	24.4m				

Load block, hook and weight ball on ground at start.
 (a) Upper boom point must be removed.
 (b) Machine must be equipped with optional lowerworks jacking cylinders.
 (c) Raising reserve is less than 10% weight.

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

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

Wire Rope Guard Roller Deduct
Deduct 180 kg from boom capacities when wire rope guard timbers are replaced with rollers.



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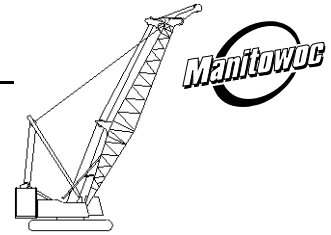
999 SERIES 3

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
21.3m (70 Ft.) BOOM			
4.6	83.0	20.5	250 000 *b ¹
4.9	82.8	23.5	226 700 *b
5.0	82.5	23.5	219 500 *b
5.5	81.1	23.4	197 500 *b
6.0	79.7	23.3	182 000 *b
7.0	77.0	23.1	157 100 *b
8.0	74.2	22.8	138 100 *
9.0	71.3	22.5	122 900 *
10.0	68.4	22.1	110 600 *
11.0	65.5	21.6	100 500 *
12.0	62.5	21.1	91 900
13.0	59.3	20.5	82 300
14.0	56.1	19.8	74 000
15.0	52.7	19.0	67 100
16.0	49.1	18.2	61 300
18.0	41.3	16.0	51 400
20.0	31.9	13.2	41 900 *
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	203 000 *b
5.5	82.2	26.5	197 200 *b
6.0	81.0	26.4	181 600 *b
7.0	78.6	26.2	156 700 *b
8.0	76.2	26.0	137 600 *
9.0	73.8	25.7	122 500 *
10.0	71.3	25.3	110 200 *
11.0	68.8	24.9	100 100 *
12.0	66.2	24.5	91 500 *
13.0	63.5	24.0	82 100
14.0	60.9	23.4	73 800
15.0	58.1	22.8	66 800
16.0	55.2	22.1	61 000
18.0	49.1	20.5	51 700
20.0	42.4	18.4	44 500
22.0	34.5	15.7	38 100 *
24.0	24.5	11.9	30 700 *
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	182 800 *b
6.0	82.0	29.5	180 000 *b
7.0	79.9	29.4	156 500 *b
8.0	77.8	29.1	137 500 *
9.0	75.6	28.9	122 300 *
10.0	73.4	28.6	110 100 *
11.0	71.2	28.2	99 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
12.0	69.0	27.8	91 200
13.0	66.7	27.4	82 100
14.0	64.4	26.9	73 800
15.0	62.0	26.4	66 800
16.0	59.6	25.8	61 000
18.0	54.5	24.4	51 600
20.0	49.1	22.8	44 500
22.0	43.2	20.7	38 900
24.0	36.4	18.2	34 200
26.0	28.3	14.9	29 000 *
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	175 000 *b
7.0	80.9	32.5	156 700 *b
8.0	79.0	32.3	137 200 *
9.0	77.1	32.0	122 100 *
10.0	75.1	31.7	109 800
11.0	73.2	31.4	98 800
12.0	71.2	31.1	89 200
13.0	69.2	30.7	81 200
14.0	67.1	30.3	73 600
15.0	65.1	29.8	66 700
16.0	62.9	29.3	60 800
18.0	58.6	28.1	51 500
20.0	54.0	26.7	44 300
22.0	49.1	25.1	38 700
24.0	43.8	23.1	34 200
26.0	37.9	20.6	30 400
28.0	31.0	17.6	26 800 *
30.0	22.2	13.4	22 500 *
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	160 400 *
7.0	81.8	35.5	155 200 *
8.0	80.0	35.4	137 100 *
9.0	78.3	35.2	121 400
10.0	76.5	34.9	107 600
11.0	74.8	34.6	96 400
12.0	73.0	34.3	87 200
13.0	71.2	34.0	79 400
14.0	69.3	33.6	72 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
15.0	67.5	33.2	66 700
16.0	65.6	32.7	60 700
18.0	61.7	31.7	51 400
20.0	57.7	30.5	44 200
22.0	53.5	29.0	38 600
24.0	49.1	27.4	34 000
26.0	44.3	25.4	30 300
28.0	39.0	23.0	27 200
30.0	33.1	20.2	24 400
32.0	25.8	16.5	21 000 *
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	134 800
9.0	79.3	38.3	118 100
10.0	77.7	38.1	104 800
11.0	76.1	37.8	94 100
12.0	74.4	37.5	85 200
13.0	72.8	37.2	77 700
14.0	71.1	36.9	71 300
15.0	69.5	36.5	65 800
16.0	67.8	36.1	60 700
18.0	64.3	35.1	51 300
20.0	60.7	34.0	44 100
22.0	57.0	32.8	38 400
24.0	53.2	31.3	33 900
26.0	49.1	29.7	30 100
28.0	44.7	27.7	27 000
30.0	40.0	25.4	24 300
32.0	34.7	22.7	22 100
34.0	28.5	19.3	19 500 *
36.0	20.6	14.7	16 600 *
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	133 800 *
8.0	81.6	41.6	131 300
9.0	80.1	41.4	114 900
10.0	78.6	41.2	102 300
11.0	77.2	40.9	92 000
12.0	75.7	40.7	83 400
13.0	74.2	40.4	76 200
14.0	72.6	40.1	70 000
15.0	71.1	39.7	64 600
16.0	69.6	39.4	59 900
18.0	66.4	38.5	51 300

¹ Special equipment required.



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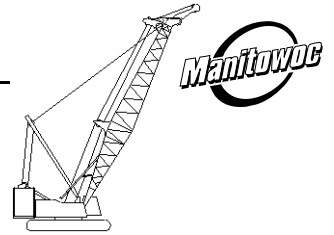
Maximum Operating Wind Speeds
(includes all jib lengths)
14 m/s with 21.3m thru 54.9m Boom
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
20.0	63.2	37.5	44 100
22.0	59.9	36.4	38 400
24.0	56.4	35.1	33 800
26.0	52.8	33.6	30 000
28.0	49.1	32.0	26 900
30.0	45.1	30.0	24 200
32.0	40.7	27.8	22 000
34.0	36.0	25.2	20 000
36.0	30.5	22.0	18 000
38.0	24.0	18.0	15 600 *
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	128 100
8.0	82.2	44.6	126 900
9.0	80.8	44.5	111 700
10.0	79.5	44.3	99 700
11.0	78.1	44.1	89 700
12.0	76.7	43.8	81 500
13.0	75.3	43.6	74 500
14.0	73.9	43.3	68 500
15.0	72.5	43.0	63 200
16.0	71.1	42.6	58 700
18.0	68.2	41.8	50 900
20.0	65.3	40.9	43 800
22.0	62.2	39.9	38 100
24.0	59.1	38.7	33 600
26.0	55.9	37.4	29 800
28.0	52.6	35.9	26 600
30.0	49.1	34.3	24 000
32.0	45.4	32.3	21 700
34.0	41.4	30.2	19 700
36.0	37.0	27.6	17 900
38.0	32.2	24.6	16 400
40.0	26.6	20.9	14 400 *
42.0	19.4	16.0	12 300 *
45.7m (150 Ft.) BOOM			
7.9	82.8	47.7	120 400 *
8.0	82.7	47.7	119 700
9.0	81.4	47.6	109 100
10.0	80.2	47.4	97 200
11.0	78.9	47.2	87 700
12.0	77.6	47.0	79 700
13.0	76.3	46.7	72 900
14.0	75.0	46.5	67 100
15.0	73.7	46.2	62 000
16.0	72.4	45.8	57 500
18.0	69.7	45.1	50 100
20.0	67.0	44.3	43 700
22.0	64.3	43.3	38 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
24.0	61.4	42.3	33 400
26.0	58.5	41.1	29 600
28.0	55.5	39.7	26 400
30.0	52.3	38.2	23 700
32.0	49.1	36.6	21 400
34.0	45.6	34.7	19 400
36.0	41.9	32.5	17 700
38.0	37.9	30.0	16 100
40.0	33.6	27.2	14 800
42.0	28.6	23.7	13 300 *
44.0	22.6	19.4	11 300 *
48.8m (160 Ft.) BOOM			
8.5	82.5	50.7	107 000 *
9.0	82.0	50.7	104 900
10.0	80.8	50.5	94 900
11.0	79.6	50.3	85 700
12.0	78.4	50.1	78 000
13.0	77.2	49.9	71 400
14.0	76.0	49.6	65 700
15.0	74.8	49.3	60 800
16.0	73.5	49.0	56 500
18.0	71.1	48.4	49 200
20.0	68.5	47.6	43 300
22.0	66.0	46.7	37 900
24.0	63.4	45.7	33 300
26.0	60.7	44.7	29 500
28.0	57.9	43.4	26 300
30.0	55.1	42.1	23 600
32.0	52.1	40.5	21 300
34.0	49.1	38.9	19 300
36.0	45.8	37.0	17 500
38.0	42.4	34.8	15 900
40.0	38.7	32.4	14 600
42.0	34.7	29.7	13 300
44.0	30.2	26.4	12 100
46.0	25.0	22.5	10 500 *
48.0	18.5	17.3	8 800 *
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	105 500 *
9.0	82.5	53.7	102 500
10.0	81.3	53.6	92 600
11.0	80.2	53.4	83 700
12.0	79.1	53.2	76 300
13.0	78.0	53.0	69 900
14.0	76.8	52.8	64 400
15.0	75.7	52.5	59 600
16.0	74.5	52.2	55 300
18.0	72.2	51.6	48 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
20.0	69.9	50.9	42 500
22.0	67.5	50.1	37 700
24.0	65.1	49.2	33 000
26.0	62.6	48.1	29 200
28.0	60.0	47.0	26 100
30.0	57.4	45.8	23 400
32.0	54.7	44.4	21 000
34.0	52.0	42.8	19 000
36.0	49.1	41.2	17 200
38.0	46.0	39.3	15 700
40.0	42.8	37.2	14 300
42.0	39.4	34.8	13 100
44.0	35.7	32.1	12 000
46.0	31.6	29.1	10 900
48.0	27.0	25.4	9 600 *
50.0	21.5	20.8	8 100 *
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	93 600 *
10.0	81.8	56.7	91 100
11.0	80.8	56.5	81 900
12.0	79.7	56.3	74 700
13.0	78.6	56.1	68 500
14.0	77.6	55.9	63 200
15.0	76.5	55.7	58 500
16.0	75.4	55.4	54 400
18.0	73.2	54.8	47 400
20.0	71.0	54.1	41 800
22.0	68.8	53.4	37 200
24.0	66.5	52.5	33 000
26.0	64.2	51.6	29 100
28.0	61.9	50.5	26 000
30.0	59.5	49.4	23 200
32.0	57.0	48.1	20 900
34.0	54.4	46.7	18 900
36.0	51.8	45.1	17 100
38.0	49.0	43.5	15 500
40.0	46.2	41.6	14 100
42.0	43.2	39.5	12 900
44.0	40.0	37.2	11 800
46.0	36.6	34.6	10 800
48.0	32.8	31.6	9 900
50.0	28.6	28.2	8 700 *
52.0	23.8	24.0	7 400 *



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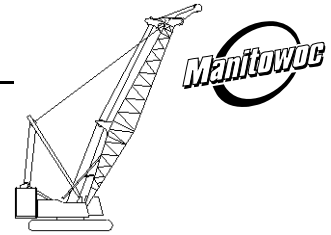
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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	89 200 *
10.0	82.3	59.8	87 500
11.0	81.3	59.6	80 000
12.0	80.3	59.4	73 000
13.0	79.2	59.2	67 000
14.0	78.2	59.0	61 800
15.0	77.2	58.8	57 200
16.0	76.2	58.5	53 200
18.0	74.2	58.0	46 400
20.0	72.1	57.4	40 900
22.0	70.0	56.6	36 400
24.0	67.8	55.8	32 500
26.0	65.7	55.0	28 800
28.0	63.5	54.0	25 600
30.0	61.2	52.9	22 900
32.0	58.9	51.7	20 600
34.0	56.6	50.4	18 500
36.0	54.1	49.0	16 800
38.0	51.6	47.5	15 200
40.0	49.0	45.8	13 800
42.0	46.3	43.9	12 500
44.0	43.5	41.8	11 400
46.0	40.5	39.6	10 400
48.0	37.3	37.0	9 500
50.0	33.9	34.2	8 700
52.0	30.0	30.9	7 800 *
54.0	25.7	27.0	6 700 *
56.0	20.5	22.1	5 500 *
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	78 400
12.0	80.7	62.5	71 500
13.0	79.8	62.3	65 700
14.0	78.8	62.1	60 700
15.0	77.9	61.9	56 200
16.0	76.9	61.7	52 300
18.0	75.0	61.2	45 600
20.0	73.0	60.6	40 300
22.0	71.0	59.9	35 800
24.0	69.0	59.1	32 000
26.0	67.0	58.3	28 800
28.0	64.9	57.4	25 500
30.0	62.8	56.4	22 800
32.0	60.7	55.3	20 500
34.0	58.5	54.1	18 500
36.0	56.2	52.7	16 600
38.0	53.9	51.3	15 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) BOOM			
40.0	51.5	49.8	13 700
42.0	49.0	48.1	12 400
44.0	46.5	46.2	11 300
46.0	43.8	44.2	10 200
48.0	41.0	41.9	9 300
50.0	38.0	39.4	8 500
52.0	34.8	36.7	7 700
54.0	31.2	33.5	7 000
56.0	27.3	29.8	5 900 *
58.0	22.8	25.4	4 900 *
64.0m (210 Ft.) BOOM			
10.4	82.7	65.9	77 700 *
11.0	82.1	65.8	76 600
12.0	81.2	65.6	70 000
13.0	80.3	65.4	64 300
14.0	79.4	65.2	59 400
15.0	78.5	65.0	55 100
16.0	77.5	64.8	51 200
18.0	75.7	64.3	44 700
20.0	73.8	63.8	39 500
22.0	72.0	63.1	35 000
24.0	70.1	62.4	31 300
26.0	68.1	61.6	28 200
28.0	66.2	60.7	25 300
30.0	64.2	59.8	22 600
32.0	62.2	58.8	20 200
34.0	60.1	57.6	18 200
36.0	58.0	56.4	16 400
38.0	55.9	55.1	14 800
40.0	53.7	53.6	13 400
42.0	51.4	52.1	12 100
44.0	49.0	50.4	11 000
46.0	46.6	48.5	10 000
48.0	44.1	46.5	9 100
50.0	41.4	44.3	8 200
52.0	38.6	41.8	7 500
54.0	35.6	39.1	6 800
56.0	32.3	36.1	6 100
58.0	28.7	32.6	5 100 *
60.0	24.6	28.5	4 200 *
62.0	19.7	23.4	3 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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	68 400
13.0	80.7	68.5	63 000
14.0	79.9	68.4	58 100
15.0	79.0	68.2	53 900
16.0	78.1	67.9	50 200
18.0	76.4	67.5	43 800
20.0	74.6	66.9	38 600
22.0	72.8	66.3	34 300
24.0	71.0	65.6	30 700
26.0	69.2	64.9	27 500
28.0	67.3	64.1	24 800
30.0	65.5	63.2	22 300
32.0	63.6	62.2	20 000
34.0	61.6	61.1	17 900
36.0	59.6	60.0	16 100
38.0	57.6	58.7	14 500
40.0	55.6	57.4	13 100
42.0	53.5	55.9	11 900
44.0	51.3	54.4	10 700
46.0	49.0	52.7	9 700
48.0	46.7	50.8	8 800
50.0	44.3	48.8	7 900
52.0	41.8	46.6	7 100
54.0	39.1	44.2	6 400
56.0	36.3	41.6	5 800
58.0	33.2	38.6	5 200
60.0	29.9	35.3	4 300 *
62.0	26.2	31.4	3 500 *
64.0	21.9	26.8	2 700 *
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	61 900
14.0	80.3	71.5	57 100
15.0	79.5	71.3	53 000
16.0	78.6	71.1	49 300
18.0	77.0	70.6	43 100
20.0	75.3	70.1	38 000
22.0	73.6	69.5	33 700
24.0	71.9	68.9	30 100
26.0	70.1	68.2	27 100
28.0	68.4	67.4	24 400
30.0	66.6	66.5	22 100
32.0	64.8	65.6	19 800
34.0	63.0	64.6	17 800
36.0	61.1	63.5	16 000
38.0	59.2	62.3	14 400



Liftcrane Boom Capacities

Boom No. 82 or 22EL
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

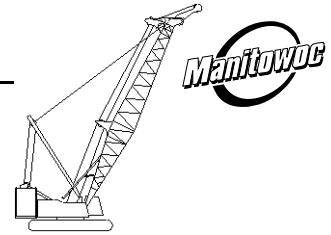
Maximum Operating Wind Speeds
(includes all jib lengths)
14 m/s with 21.3m thru 54.9m Boom
10 m/s with 57.9m thru 73.2m Boom
7 m/s with 76.2m thru 88.4m Boom

999 SERIES 3

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70.1m (230 Ft.) BOOM			
40.0	57.3	61.1	13 000
42.0	55.3	59.7	11 700
44.0	53.3	58.2	10 600
46.0	51.2	56.7	9 500
48.0	49.0	55.0	8 600
50.0	46.8	53.1	7 700
52.0	44.5	51.1	7 000
54.0	42.1	49.0	6 200
56.0	39.6	46.6	5 600
58.0	36.9	44.0	5 000
60.0	34.0	41.1	4 400
62.0	30.9	37.9	3 600 *
64.0	27.5	34.3	2 800 *
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	55 800
15.0	79.9	74.4	51 800
16.0	79.1	74.2	48 200
18.0	77.5	73.7	42 200
20.0	75.9	73.2	37 200
22.0	74.3	72.7	33 000
24.0	72.6	72.1	29 500
26.0	71.0	71.4	26 400
28.0	69.3	70.7	23 800
30.0	67.6	69.8	21 500
32.0	65.9	69.0	19 500
34.0	64.2	68.0	17 500
36.0	62.4	67.0	15 700
38.0	60.6	65.9	14 100
40.0	58.8	64.7	12 700
42.0	56.9	63.4	11 400
44.0	55.0	62.0	10 300
46.0	53.1	60.5	9 200
48.0	51.1	59.0	8 300
50.0	49.0	57.3	7 400
52.0	46.9	55.4	6 600
54.0	44.7	53.4	5 900
56.0	42.4	51.3	5 300
58.0	40.0	49.0	4 600
60.0	37.5	46.4	4 100
62.0	34.8	43.6	3 600
64.0	31.9	40.5	2 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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	50 800
16.0	79.6	77.3	48 700
18.0	78.0	76.9	41 900
20.0	76.5	76.4	37 100
22.0	74.9	75.9	32 900
24.0	73.4	75.3	29 500
26.0	71.8	74.6	26 500
28.0	70.2	73.9	23 900
30.0	68.6	73.1	21 600
32.0	66.9	72.3	19 600
34.0	65.3	71.4	17 800
36.0	63.6	70.4	16 000
38.0	61.9	69.4	14 400
40.0	60.2	68.2	13 000
42.0	58.4	67.0	11 700
44.0	56.6	65.7	10 600
46.0	54.8	64.3	9 600
48.0	52.9	62.9	8 600
50.0	51.0	61.3	7 700
52.0	49.0	59.6	7 000
54.0	47.0	57.7	6 200
56.0	44.9	55.7	5 600
58.0	42.7	53.6	5 000
60.0	40.4	51.3	4 400
62.0	38.0	48.8	3 800
64.0	35.4	46.1	3 400
66.0	32.7	43.1	2 700 *
68.0	29.8	39.7	2 000 *
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	45 700
18.0	78.5	80.0	41 300
20.0	77.0	79.5	36 300
22.0	75.5	79.0	32 200
24.0	74.0	78.5	28 800
26.0	72.5	77.8	25 900
28.0	71.0	77.2	23 300
30.0	69.4	76.4	21 100
32.0	67.9	75.6	19 100
34.0	66.3	74.8	17 300
36.0	64.7	73.8	15 700
38.0	63.1	72.8	14 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79.2m (260 Ft.) BOOM			
40.0	61.5	71.7	12 800
42.0	59.8	70.6	11 500
44.0	58.1	69.4	10 300
46.0	56.4	68.1	9 300
48.0	54.6	66.7	8 300
50.0	52.8	65.2	7 500
52.0	50.9	63.6	6 700
54.0	49.0	61.9	5 900
56.0	47.1	60.0	5 300
58.0	45.0	58.1	4 600
60.0	42.9	56.0	4 100
62.0	40.8	53.7	3 500
64.0	38.5	51.2	3 100
66.0	36.0	48.5	2 600
68.0	33.5	45.6	2 000 *
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	40 100
20.0	77.5	82.7	35 500
22.0	76.1	82.2	31 500
24.0	74.6	81.6	28 200
26.0	73.2	81.0	25 200
28.0	71.7	80.4	22 700
30.0	70.2	79.7	20 500
32.0	68.7	78.9	18 600
34.0	67.2	78.1	16 800
36.0	65.7	77.2	15 200
38.0	64.2	76.2	13 800
40.0	62.6	75.2	12 400
42.0	61.0	74.1	11 200
44.0	59.4	73.0	10 000
46.0	57.8	71.7	9 000
48.0	56.1	70.4	8 000
50.0	54.4	69.0	7 100
52.0	52.6	67.5	6 300
54.0	50.9	65.9	5 600
56.0	49.0	64.2	4 900
58.0	47.1	62.3	4 300
60.0	45.2	60.4	3 700
62.0	43.2	58.3	3 200
64.0	41.1	56.0	2 700
66.0	38.9	53.6	2 300



Liftcrane Boom Capacities

Boom No. 82 or 22EL
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
 (includes all jib lengths)
 14 m/s with 21.3m thru 54.9m Boom
 10 m/s with 57.9m thru 73.2m Boom
 7 m/s with 76.2m thru 88.4m Boom

999 SERIES 3

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	35 000
22.0	76.6	85.3	31 100
24.0	75.2	84.8	27 700
26.0	73.8	84.2	24 900
28.0	72.4	83.6	22 400
30.0	71.0	82.9	20 200
32.0	69.5	82.2	18 300
34.0	68.1	81.4	16 500
36.0	66.6	80.5	15 000
38.0	65.2	79.6	13 600
40.0	63.7	78.6	12 300
42.0	62.1	77.6	11 100
44.0	60.6	76.5	9 900
46.0	59.1	75.3	8 900
48.0	57.5	74.0	7 900
50.0	55.9	72.7	7 100
52.0	54.2	71.3	6 300
54.0	52.5	69.8	5 600
56.0	50.8	68.2	4 900
58.0	49.0	66.5	4 200
60.0	47.2	64.6	3 600
62.0	45.3	62.7	3 100
64.0	43.4	60.6	2 600
66.0	41.4	58.4	2 200

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	33 600
22.0	77.1	88.5	30 500
24.0	75.7	88.0	27 100
26.0	74.4	87.4	24 300
28.0	73.0	86.8	21 900
30.0	71.7	86.1	19 700
32.0	70.3	85.4	17 800
34.0	68.9	84.7	16 100
36.0	67.5	83.9	14 500
38.0	66.1	83.0	13 100
40.0	64.6	82.0	11 900
42.0	63.2	81.0	10 700
44.0	61.7	80.0	9 700
46.0	60.2	78.9	8 700
48.0	58.7	77.7	7 700
50.0	57.2	76.4	6 800
52.0	55.6	75.0	6 000
54.0	54.0	73.6	5 300
56.0	52.4	72.1	4 600
58.0	50.7	70.5	4 000
60.0	49.0	68.8	3 400
62.0	47.3	66.9	2 800
64.0	45.5	65.0	2 400