

# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**83 730 kg Crane Counterweight**  
**19 960 kg Carbody Counterweight**  
**360 Degree Rating**

<b>Maximum Operating Wind Speeds</b> (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
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## 999 SERIES 2

**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.

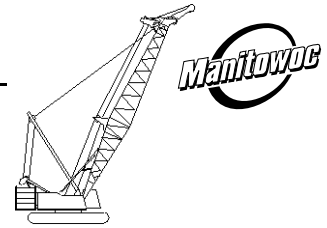
**OPERATING RADIUS:** Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

**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, 83 730 kg crane counterweight and two 9 980 kg carbody counterweights.

<b>Boom Catwalks Deduct</b>
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Deduct 300 kg from capacities when boom catwalks are attached.
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**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 2

Maximum Boom and Jib Lengths Lifted Unassisted							
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)(c) 88.4m	—	(a)(c) 79.2m	—	(a)(c) 85.3m	—	(a)(c) 79.2m	—
(a)(c) 85.3m	—	(a) 76.2m	—	(a) 82.3m	—	(a) 76.2m	—
(a) 82.3m	—	73.2m	—	(c) 79.2m	9.1m - 12.2m	(a) 73.2m	—
(c) 79.2m	9.1m - 15.2m	(c) 70.1m	9.1m - 15.2m	(c) 76.2m	15.2m - 21.3m	(c) 70.1m	9.1m - 15.2m
(c) 76.2m	18.3m - 24.4m	(c) 67.1m	18.3m - 24.4m	(b) 76.2m	12.2m	(c) 67.1m	18.3m - 24.4m
(b) 76.2m	15.2m	67.1m	15.2m	76.2m	9.1m	67.1m	15.2m
(c) 73.2m	21.3m - 24.4m	64.0m	24.4m	(c) 73.2m	18.3m - 24.4m	64.0m	24.4m
73.2m	18.3m			73.2m	15.2m		
70.1m	24.4m			70.1m	24.4m		

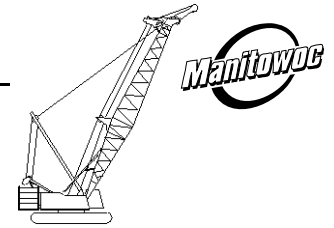
Load block, hook and weight ball on ground at start.  
 (a) Upper boom point must be removed.  
 (b) Machine must be equipped with optional lowerworks jacking cylinders.  
 (c) Raising reserve is less than 10% tip weight.

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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**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

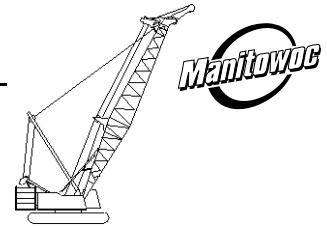
## 999 SERIES 2

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>21.3m (70 Ft.) BOOM</b>			
4.9	82.8	23.5	212 200 *b <sup>1</sup>
5.0	82.5	23.5	207 600 *b
5.5	81.1	23.4	189 800 *b
6.0	79.7	23.3	174 900 *b
7.0	77.0	23.1	150 900 *b
8.0	74.2	22.8	132 500
9.0	71.3	22.5	115 100
10.0	68.4	22.1	100 700
11.0	65.5	21.6	88 000
12.0	62.5	21.1	77 200
13.0	59.3	20.5	68 600
14.0	56.1	19.8	61 500
15.0	52.7	19.0	55 700
16.0	49.1	18.1	50 700
18.0	41.3	16.0	42 800
20.0	31.9	13.2	36 900
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	200 200 *b
5.5	82.2	26.5	189 400 *b
6.0	81.0	26.4	174 400 *b
7.0	78.6	26.2	150 500 *b
8.0	76.2	26.0	128 900
9.0	73.8	25.7	111 300
10.0	71.3	25.3	97 700
11.0	68.8	24.9	86 900
12.0	66.2	24.5	77 100
13.0	63.5	24.0	68 400
14.0	60.9	23.4	61 300
15.0	58.1	22.8	55 500
16.0	55.2	22.1	50 500
18.0	49.1	20.4	42 500
20.0	42.4	18.4	36 500
22.0	34.5	15.7	31 800
24.0	24.5	11.9	28 000
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	180 200 *b
6.0	82.0	29.5	174 400 *b
7.0	79.9	29.3	147 000 *b
8.0	77.8	29.1	124 600
9.0	75.6	28.9	107 900
10.0	73.4	28.6	95 000
11.0	71.2	28.2	84 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>27.4m (90 Ft.) BOOM</b>			
12.0	69.0	27.8	76 200
13.0	66.7	27.4	68 400
14.0	64.4	26.9	61 300
15.0	62.0	26.4	55 400
16.0	59.6	25.8	50 400
18.0	54.5	24.4	42 500
20.0	49.1	22.7	36 500
22.0	43.2	20.7	31 700
24.0	36.4	18.2	27 800
26.0	28.3	14.9	24 700
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	166 700 b
7.0	80.9	32.5	141 200 b
8.0	79.0	32.3	120 500
9.0	77.1	32.0	104 800
10.0	75.1	31.7	92 400
11.0	73.2	31.4	82 500
12.0	71.2	31.1	74 300
13.0	69.2	30.7	67 500
14.0	67.1	30.3	61 200
15.0	65.1	29.8	55 300
16.0	62.9	29.3	50 300
18.0	58.6	28.1	42 300
20.0	54.0	26.7	36 300
22.0	49.1	25.0	31 500
24.0	43.8	23.1	27 700
26.0	37.9	20.6	24 500
28.0	31.0	17.6	21 900
30.0	22.2	13.4	19 700
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	143 200
7.0	81.8	35.5	136 600
8.0	80.0	35.4	116 700
9.0	78.3	35.2	101 800
10.0	76.5	34.9	90 000
11.0	74.8	34.6	80 500
12.0	73.0	34.3	72 600
13.0	71.2	34.0	66 000
14.0	69.3	33.6	60 400
15.0	67.5	33.2	55 300
16.0	65.6	32.7	50 200
18.0	61.7	31.7	42 200
20.0	57.7	30.4	36 200
22.0	53.5	29.0	31 400
24.0	49.1	27.3	27 500
26.0	44.3	25.4	24 400
28.0	39.0	23.0	21 700
30.0	33.1	20.2	19 500
32.0	25.8	16.5	17 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	138 100
7.0	82.5	38.6	131 800
8.0	80.9	38.5	113 100
9.0	79.3	38.3	98 900
10.0	77.7	38.0	87 700
11.0	76.1	37.8	78 500
12.0	74.4	37.5	71 000
13.0	72.8	37.2	64 600
14.0	71.1	36.8	59 100
15.0	69.5	36.5	54 400
16.0	67.8	36.1	50 100
18.0	64.3	35.1	42 200
20.0	60.7	34.0	36 100
22.0	57.0	32.8	31 300
24.0	53.2	31.3	27 400
26.0	49.1	29.6	24 200
28.0	44.7	27.7	21 500
30.0	40.0	25.4	19 300
32.0	34.7	22.7	17 400
34.0	28.5	19.3	15 700
36.0	20.6	14.7	14 300
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	121 100
8.0	81.6	41.6	109 700
9.0	80.1	41.4	96 300
10.0	78.6	41.2	85 500
11.0	77.2	40.9	76 700
12.0	75.7	40.7	69 400
13.0	74.2	40.4	63 200
14.0	72.6	40.1	58 000
15.0	71.1	39.7	53 400
16.0	69.6	39.4	49 400
18.0	66.4	38.5	42 200
20.0	63.2	37.5	36 000
22.0	59.9	36.4	31 200
24.0	56.4	35.1	27 300
26.0	52.8	33.6	24 100
28.0	49.1	31.9	21 400
30.0	45.1	30.0	19 200
32.0	40.7	27.8	17 200
34.0	36.0	25.2	15 500
36.0	30.5	22.0	14 100
38.0	24.0	18.0	12 800

<sup>1</sup> Special equipment required.



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**360 Degree Rating**

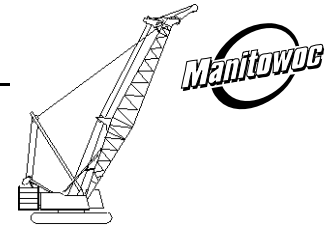
**Maximum Operating Wind Speeds**  
(includes all jib lengths)  
14 m/s with 21.3m thru 54.9m Boom  
10 m/s with 57.9m thru 73.2m Boom  
7 m/s with 76.2m thru 88.4m Boom

## 999 SERIES 2

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	107 500
8.0	82.2	44.6	106 400
9.0	80.8	44.5	93 500
10.0	79.5	44.3	83 200
11.0	78.1	44.1	74 800
12.0	76.7	43.8	67 700
13.0	75.3	43.6	61 800
14.0	73.9	43.3	56 700
15.0	72.5	43.0	52 200
16.0	71.1	42.6	48 300
18.0	68.2	41.8	41 800
20.0	65.3	40.9	35 800
22.0	62.2	39.9	30 900
24.0	59.1	38.7	27 100
26.0	55.9	37.4	23 900
28.0	52.6	35.9	21 200
30.0	49.1	34.2	18 900
32.0	45.4	32.3	17 000
34.0	41.4	30.1	15 300
36.0	37.0	27.6	13 800
38.0	32.2	24.6	12 500
40.0	26.6	20.9	11 400
42.0	19.4	16.0	10 400
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	104 300
8.0	82.7	47.7	103 300
9.0	81.4	47.6	91 000
10.0	80.2	47.4	81 100
11.0	78.9	47.2	73 000
12.0	77.6	47.0	66 200
13.0	76.3	46.7	60 400
14.0	75.0	46.4	55 400
15.0	73.7	46.2	51 100
16.0	72.4	45.8	47 300
18.0	69.7	45.1	41 000
20.0	67.0	44.3	35 700
22.0	64.3	43.3	30 800
24.0	61.4	42.3	26 900
26.0	58.5	41.1	23 700
28.0	55.5	39.7	21 000
30.0	52.3	38.2	18 700
32.0	49.1	36.5	16 700
34.0	45.6	34.6	15 000
36.0	41.9	32.5	13 500
38.0	37.9	30.0	12 200
40.0	33.6	27.2	11 100
42.0	28.6	23.7	10 100
44.0	22.6	19.4	9 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	93 800
9.0	82.0	50.7	88 700
10.0	80.8	50.5	79 200
11.0	79.6	50.3	71 300
12.0	78.4	50.1	64 700
13.0	77.2	49.9	59 100
14.0	76.0	49.6	54 300
15.0	74.8	49.3	50 100
16.0	73.5	49.0	46 400
18.0	71.1	48.4	40 200
20.0	68.5	47.6	35 200
22.0	66.0	46.7	30 700
24.0	63.4	45.7	26 700
26.0	60.7	44.6	23 500
28.0	57.9	43.4	20 800
30.0	55.1	42.1	18 500
32.0	52.1	40.5	16 600
34.0	49.1	38.8	14 900
36.0	45.8	37.0	13 400
38.0	42.4	34.8	12 000
40.0	38.7	32.4	10 900
42.0	34.7	29.7	9 800
44.0	30.2	26.4	8 900
46.0	25.0	22.5	8 100
48.0	18.5	17.3	7 400
<b>51.8m (170 Ft.) BOOM</b>			
8.5	83.0	53.8	91 100
9.0	82.5	53.7	86 300
10.0	81.3	53.6	77 200
11.0	80.2	53.4	69 600
12.0	79.1	53.2	63 200
13.0	78.0	53.0	57 800
14.0	76.8	52.8	53 100
15.0	75.7	52.5	49 000
16.0	74.5	52.2	45 400
18.0	72.2	51.6	39 400
20.0	69.9	50.9	34 500
22.0	67.5	50.1	30 400
24.0	65.1	49.2	26 500
26.0	62.6	48.1	23 300
28.0	60.0	47.0	20 600
30.0	57.4	45.8	18 300
32.0	54.7	44.4	16 300
34.0	52.0	42.8	14 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>51.8m (170 Ft.) BOOM</b>			
36.0	49.1	41.1	13 100
38.0	46.0	39.3	11 800
40.0	42.8	37.2	10 600
42.0	39.4	34.8	9 600
44.0	35.7	32.1	8 700
46.0	31.6	29.1	7 800
48.0	27.0	25.4	7 100
50.0	21.5	20.8	6 400
<b>54.9m (180 Ft.) BOOM</b>			
9.1	82.7	56.8	82 700
10.0	81.8	56.7	75 300
11.0	80.8	56.5	68 000
12.0	79.7	56.3	61 900
13.0	78.6	56.1	56 600
14.0	77.6	55.9	52 100
15.0	76.5	55.6	48 100
16.0	75.4	55.4	44 600
18.0	73.2	54.8	38 600
20.0	71.0	54.1	33 800
22.0	68.8	53.4	29 900
24.0	66.5	52.5	26 400
26.0	64.2	51.6	23 200
28.0	61.9	50.5	20 500
30.0	59.5	49.4	18 200
32.0	57.0	48.1	16 200
34.0	54.4	46.7	14 500
36.0	51.8	45.1	13 000
38.0	49.0	43.4	11 600
40.0	46.2	41.6	10 400
42.0	43.2	39.5	9 400
44.0	40.0	37.2	8 500
46.0	36.6	34.6	7 600
48.0	32.8	31.6	6 800
50.0	28.6	28.2	6 200
52.0	23.8	24.0	5 600
<b>57.9m (190 Ft.) BOOM</b>			
9.8	82.5	59.8	75 300
10.0	82.3	59.8	73 500
11.0	81.3	59.6	66 400
12.0	80.3	59.4	60 400
13.0	79.2	59.2	55 300
14.0	78.2	59.0	50 900
15.0	77.2	58.8	47 000
16.0	76.2	58.5	43 600
18.0	74.2	58.0	37 700
20.0	72.1	57.3	33 000
22.0	70.0	56.6	29 200
24.0	67.8	55.8	25 900



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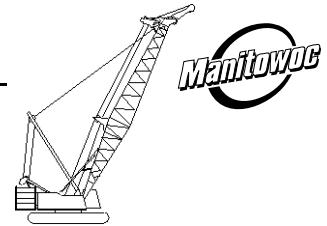
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7 m/s with 76.2m thru 88.4m Boom

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>57.9m (190 Ft.) BOOM</b>			
26.0	65.7	54.9	22 900
28.0	63.5	54.0	20 200
30.0	61.2	52.9	17 900
32.0	58.9	51.7	15 900
34.0	56.6	50.4	14 100
36.0	54.1	49.0	12 600
38.0	51.6	47.4	11 300
40.0	49.0	45.7	10 100
42.0	46.3	43.9	9 000
44.0	43.5	41.8	8 100
46.0	40.5	39.6	7 200
48.0	37.3	37.0	6 500
50.0	33.9	34.2	5 800
52.0	30.0	30.9	5 200
54.0	25.7	27.0	4 600
56.0	20.5	22.1	4 100
<b>61.0m (200 Ft.) BOOM</b>			
9.8	82.9	62.9	73 600
10.0	82.7	62.8	71 800
11.0	81.7	62.7	64 900
12.0	80.7	62.5	59 200
13.0	79.8	62.3	54 200
14.0	78.8	62.1	49 900
15.0	77.9	61.9	46 100
16.0	76.9	61.7	42 700
18.0	75.0	61.2	37 000
20.0	73.0	60.6	32 400
22.0	71.0	59.9	28 700
24.0	69.0	59.1	25 400
26.0	67.0	58.3	22 700
28.0	64.9	57.4	20 100
30.0	62.8	56.4	17 700
32.0	60.7	55.3	15 800
34.0	58.5	54.1	14 000
36.0	56.2	52.7	12 500
38.0	53.9	51.3	11 200
40.0	51.5	49.7	10 000
42.0	49.0	48.0	8 900
44.0	46.5	46.2	7 900
46.0	43.8	44.2	7 100
48.0	41.0	41.9	6 300
50.0	38.0	39.4	5 600
52.0	34.8	36.6	4 900
54.0	31.2	33.5	4 300
56.0	27.3	29.8	3 800
58.0	22.8	25.4	3 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>64.0m (210 Ft.) BOOM</b>			
10.4	82.7	65.9	67 400
11.0	82.1	65.8	63 400
12.0	81.2	65.6	57 800
13.0	80.3	65.4	53 000
14.0	79.4	65.2	48 800
15.0	78.5	65.0	45 100
16.0	77.5	64.8	41 800
18.0	75.7	64.3	36 300
20.0	73.8	63.7	31 700
22.0	72.0	63.1	28 000
24.0	70.1	62.4	24 800
26.0	68.1	61.6	22 100
28.0	66.2	60.7	19 800
30.0	64.2	59.8	17 500
32.0	62.2	58.8	15 500
34.0	60.1	57.6	13 800
36.0	58.0	56.4	12 300
38.0	55.9	55.1	10 900
40.0	53.7	53.6	9 700
42.0	51.4	52.0	8 600
44.0	49.0	50.3	7 700
46.0	46.6	48.5	6 800
48.0	44.1	46.5	6 000
50.0	41.4	44.3	5 300
52.0	38.6	41.8	4 700
54.0	35.6	39.1	4 100
56.0	32.3	36.1	3 500
58.0	28.7	32.6	3 100
60.0	24.6	28.5	2 600
62.0	19.7	23.4	2 200
<b>67.1m (220 Ft.) BOOM</b>			
10.4	83.0	68.9	65 800
11.0	82.5	68.8	61 800
12.0	81.6	68.7	56 400
13.0	80.7	68.5	51 700
14.0	79.9	68.3	47 700
15.0	79.0	68.2	44 100
16.0	78.1	67.9	40 900
18.0	76.4	67.5	35 400
20.0	74.6	66.9	31 000
22.0	72.8	66.3	27 300
24.0	71.0	65.6	24 200
26.0	69.2	64.9	21 500
28.0	67.3	64.1	19 200
30.0	65.5	63.2	17 200
32.0	63.6	62.2	15 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>67.1m (220 Ft.) BOOM</b>			
34.0	61.6	61.1	13 500
36.0	59.6	60.0	12 000
38.0	57.6	58.7	10 600
40.0	55.6	57.4	9 400
42.0	53.5	55.9	8 400
44.0	51.3	54.4	7 400
46.0	49.0	52.6	6 500
48.0	46.7	50.8	5 700
50.0	44.3	48.8	5 000
52.0	41.8	46.6	4 300
54.0	39.1	44.2	3 800
56.0	36.3	41.6	3 200
58.0	33.2	38.6	2 700
60.0	29.9	35.3	2 300
62.0	26.2	31.4	1 900
<b>70.1m (230 Ft.) BOOM</b>			
11.0	82.8	71.9	60 700
12.0	82.0	71.8	55 300
13.0	81.1	71.6	50 700
14.0	80.3	71.4	46 700
15.0	79.5	71.3	43 200
16.0	78.6	71.1	40 100
18.0	77.0	70.6	34 800
20.0	75.3	70.1	30 400
22.0	73.6	69.5	26 800
24.0	71.9	68.9	23 800
26.0	70.1	68.2	21 100
28.0	68.4	67.4	18 800
30.0	66.6	66.5	16 900
32.0	64.8	65.6	15 100
34.0	63.0	64.6	13 400
36.0	61.1	63.5	11 800
38.0	59.2	62.3	10 500
40.0	57.3	61.1	9 300
42.0	55.3	59.7	8 200
44.0	53.3	58.2	7 200
46.0	51.2	56.7	6 400
48.0	49.0	54.9	5 500
50.0	46.8	53.1	4 800
52.0	44.5	51.1	4 200
54.0	42.1	48.9	3 600
56.0	39.6	46.6	3 000
58.0	36.9	44.0	2 500
60.0	34.0	41.1	2 000



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**83 730 kg Crane Counterweight**  
**19 960 kg Carbody Counterweight**  
**360 Degree Rating**

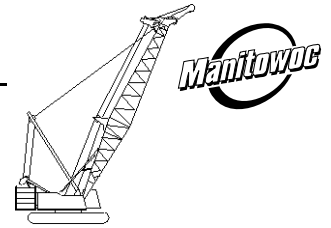
**Maximum Operating Wind Speeds**  
(includes all jib lengths)  
14 m/s with 21.3m thru 54.9m Boom  
10 m/s with 57.9m thru 73.2m Boom  
7 m/s with 76.2m thru 88.4m Boom

## 999 SERIES 2

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>73.2m (240 Ft.) BOOM</b>			
11.6	82.6	74.9	56 000
12.0	82.3	74.9	54 000
13.0	81.5	74.7	49 600
14.0	80.7	74.5	45 700
15.0	79.9	74.4	42 200
16.0	79.1	74.2	39 200
18.0	77.5	73.7	34 000
20.0	75.9	73.2	29 700
22.0	74.3	72.7	26 100
24.0	72.6	72.1	23 100
26.0	71.0	71.4	20 500
28.0	69.3	70.7	18 300
30.0	67.6	69.8	16 300
32.0	65.9	69.0	14 600
34.0	64.2	68.0	13 000
36.0	62.4	67.0	11 600
38.0	60.6	65.9	10 200
40.0	58.8	64.7	9 000
42.0	56.9	63.4	7 900
44.0	55.0	62.0	6 900
46.0	53.1	60.5	6 000
48.0	51.1	59.0	5 200
50.0	49.0	57.2	4 500
52.0	46.9	55.4	3 900
54.0	44.7	53.4	3 200
56.0	42.4	51.3	2 700
58.0	40.0	49.0	2 200
<b>76.2m (250 Ft.) BOOM</b>			
11.6	82.9	78.0	51 900 *
12.0	82.6	77.9	51 800 *
13.0	81.9	77.8	49 200
14.0	81.1	77.6	45 300
15.0	80.3	77.5	41 900
16.0	79.6	77.3	38 900
18.0	78.0	76.9	33 800
20.0	76.5	76.4	29 700
22.0	74.9	75.9	26 200
24.0	73.4	75.3	23 200
26.0	71.8	74.6	20 700
28.0	70.2	73.9	18 400
30.0	68.6	73.1	16 500
32.0	66.9	72.3	14 800
34.0	65.3	71.4	13 300
36.0	63.6	70.4	11 900
38.0	61.9	69.4	10 500
40.0	60.2	68.2	9 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>76.2m (250 Ft.) BOOM</b>			
42.0	58.4	67.0	8 200
44.0	56.6	65.7	7 300
46.0	54.8	64.3	6 400
48.0	52.9	62.8	5 600
50.0	51.0	61.3	4 900
52.0	49.0	59.5	4 200
54.0	47.0	57.7	3 600
56.0	44.9	55.7	3 000
58.0	42.7	53.6	2 500
60.0	40.4	51.3	2 000
<b>79.2m (260 Ft.) BOOM</b>			
12.2	82.8	81.0	47 300 *
13.0	82.2	80.9	46 900
14.0	81.4	80.7	44 300
15.0	80.7	80.6	41 000
16.0	80.0	80.4	38 000
18.0	78.5	80.0	33 100
20.0	77.0	79.5	28 900
22.0	75.5	79.0	25 500
24.0	74.0	78.5	22 600
26.0	72.5	77.8	20 100
28.0	71.0	77.2	17 900
30.0	69.4	76.4	16 000
32.0	67.9	75.6	14 300
34.0	66.3	74.8	12 800
36.0	64.7	73.8	11 400
38.0	63.1	72.8	10 200
40.0	61.5	71.7	9 100
42.0	59.8	70.6	8 000
44.0	58.1	69.4	7 000
46.0	56.4	68.1	6 100
48.0	54.6	66.7	5 300
50.0	52.8	65.2	4 500
52.0	50.9	63.6	3 900
54.0	49.0	61.8	3 300
56.0	47.1	60.0	2 700
58.0	45.0	58.1	2 200
<b>82.3m (270 Ft.) BOOM</b>			
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	83.6	40 100
16.0	80.3	83.5	37 200
18.0	78.9	83.1	32 300
20.0	77.5	82.7	28 200
22.0	76.1	82.2	24 800
24.0	74.6	81.6	22 000
26.0	73.2	81.0	19 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>82.3m (270 Ft.) BOOM</b>			
28.0	71.7	80.4	17 300
30.0	70.2	79.7	15 400
32.0	68.7	78.9	13 700
34.0	67.2	78.1	12 300
36.0	65.7	77.2	10 900
38.0	64.2	76.2	9 700
40.0	62.6	75.2	8 600
42.0	61.0	74.1	7 600
44.0	59.4	72.9	6 700
46.0	57.8	71.7	5 800
48.0	56.1	70.4	5 000
50.0	54.4	69.0	4 200
52.0	52.6	67.5	3 600
54.0	50.9	65.9	2 900
56.0	49.0	64.1	2 400
<b>85.3m (280 Ft.) BOOM</b>			
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	37 000
18.0	79.3	86.2	31 800
20.0	78.0	85.8	27 800
22.0	76.6	85.3	24 400
24.0	75.2	84.8	21 600
26.0	73.8	84.2	19 200
28.0	72.4	83.6	17 000
30.0	71.0	82.9	15 200
32.0	69.5	82.2	13 500
34.0	68.1	81.4	12 000
36.0	66.6	80.5	10 700
38.0	65.2	79.6	9 500
40.0	63.7	78.6	8 400
42.0	62.1	77.6	7 400
44.0	60.6	76.5	6 500
46.0	59.1	75.3	5 700
48.0	57.5	74.0	4 900
50.0	55.9	72.7	4 200
52.0	54.2	71.3	3 500
54.0	52.5	69.8	2 900
56.0	50.8	68.2	2 300



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**83 730 kg Crane Counterweight**  
**19 960 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 2

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>88.4m (290 Ft.) BOOM</b>			
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	34 500
18.0	79.7	89.3	31 200
20.0	78.4	88.9	27 100
22.0	77.1	88.4	23 900
24.0	75.7	87.9	21 000
26.0	74.4	87.4	18 600
28.0	73.0	86.8	16 500
30.0	71.7	86.1	14 700
32.0	70.3	85.4	13 100
34.0	68.9	84.7	11 600
36.0	67.5	83.9	10 300
38.0	66.1	83.0	9 100
40.0	64.6	82.0	8 000
42.0	63.2	81.0	7 000
44.0	61.7	80.0	6 100
46.0	60.2	78.8	5 300
48.0	58.7	77.6	4 600
50.0	57.2	76.4	3 800
52.0	55.6	75.0	3 200
54.0	54.0	73.6	2 600
56.0	52.4	72.1	2 000

REFERENCE ONLY!