

# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**67 860 kg Counterweight**  
**360 Degree Rating**

<p><b>Maximum Operating Wind Speeds</b> (includes all jib lengths)</p> <p>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 Boom</p>
---

## 999 SERIES 1

**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 boom length requires 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**.

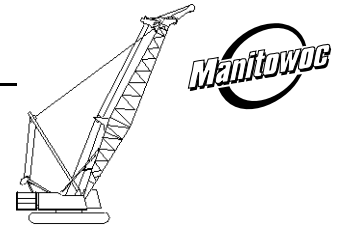
**MAX PERMISSIBLE SLEWING SPEED:** Slewing operation with working load shall not exceed 0.4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2.5 seconds.

**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 and 67 860 kg counterweight.

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



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**67 860 kg 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 Boom

## 999 SERIES 1

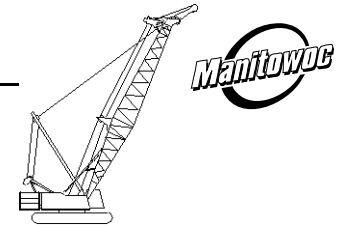
Maximum Boom and Jib Lengths Lifted Unassisted							
WITHOUT BOOM CATWALKS				WITH BOOM CATWALKS			
Over End of Blocked Crawlers		Over Side of Crawlers		Over End of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134
(c) 76.2m	—	(c) 67.1m	—	(a)(c) 76.2m	—	(a)(c) 67.1m	—
(c) 73.2m	—	64.0m	—	(a)(c) 73.2m	—	(a) 64.0m	—
70.1m	—	(c) 61.0m	9.1m - 12.2m	(a) 70.1m	—	(c) 61.0m	9.1m - 12.2m
(c) 67.1m	9.1m - 18.3m	(c) 57.9m	18.3m - 21.3m	(c) 67.1m	9.1m - 15.2m	(c) 57.9m	18.3m - 21.3m
(c) 64.0m	18.3m - 24.4m	57.9m	15.2m	(c) 64.0m	18.3m - 24.4m	57.9m	15.2m
64.0m	15.2m	54.9m	24.4m	64.0m	15.2m	54.9m	24.4m
61.0m	24.4m			(b) 61.0m	24.4m		
				61.0m	21.3m		
				57.9m	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.



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**67 860 kg Counterweight**  
**360 Degree Rating**

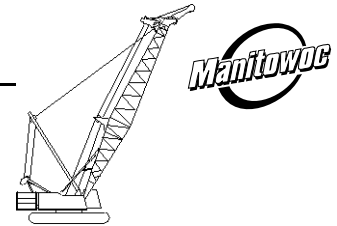
**Maximum Operating Wind Speeds**  
(includes all jib lengths)  
14 m/s with 21.3m thru 54.9m Boom  
10 m/s with 57.9m thru 73.2m Boom  
7 m/s with 76.2m Boom

## 999 SERIES 1

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	203 600 *b
5.0	82.5	23.5	198 800 b
5.5	81.1	23.4	176 400 b
6.0	79.7	23.3	156 300 b
7.0	77.0	23.1	126 900 b
8.0	74.2	22.8	106 500
9.0	71.3	22.5	91 500
10.0	68.4	22.1	79 900
11.0	65.5	21.6	69 700
12.0	62.5	21.1	61 000
13.0	59.3	20.5	54 000
14.0	56.1	19.8	48 300
15.0	52.7	19.0	43 500
16.0	49.1	18.1	39 500
18.0	41.3	16.0	33 100
20.0	31.9	13.2	28 300
<b>24.4m (80 Ft.) BOOM</b>			
5.2	83.0	26.6	181 200 b
5.5	82.2	26.5	167 200 b
6.0	81.0	26.4	148 900 b
7.0	78.6	26.2	121 800 b
8.0	76.2	26.0	102 700
9.0	73.8	25.7	88 400
10.0	71.3	25.3	77 400
11.0	68.8	24.9	68 600
12.0	66.2	24.5	60 900
13.0	63.5	24.0	53 700
14.0	60.9	23.4	48 000
15.0	58.1	22.8	43 300
16.0	55.2	22.1	39 300
18.0	49.1	20.4	32 800
20.0	42.4	18.4	28 000
22.0	34.5	15.7	24 100
24.0	24.5	11.9	21 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>27.4m (90 Ft.) BOOM</b>			
5.8	82.5	29.6	148 900 b
6.0	82.0	29.5	142 400 b
7.0	79.9	29.3	117 200 b
8.0	77.8	29.1	99 200
9.0	75.6	28.9	85 700
10.0	73.4	28.6	75 200
11.0	71.2	28.2	66 800
12.0	69.0	27.8	59 900
13.0	66.7	27.4	53 800
14.0	64.4	26.9	48 000
15.0	62.0	26.4	43 200
16.0	59.6	25.8	39 200
18.0	54.5	24.4	32 700
20.0	49.1	22.7	27 800
22.0	43.2	20.7	24 000
24.0	36.4	18.2	20 900
26.0	28.3	14.9	18 400
<b>30.5m (100 Ft.) BOOM</b>			
6.1	82.7	32.6	133 500 b
7.0	80.9	32.5	112 700 b
8.0	79.0	32.3	95 900
9.0	77.1	32.0	83 100
10.0	75.1	31.7	73 100
11.0	73.2	31.4	65 000
12.0	71.2	31.1	58 400
13.0	69.2	30.7	52 900
14.0	67.1	30.3	47 900
15.0	65.1	29.8	43 100
16.0	62.9	29.3	39 100
18.0	58.6	28.1	32 600
20.0	54.0	26.7	27 700
22.0	49.1	25.0	23 800
24.0	43.8	23.1	20 700
26.0	37.9	20.6	18 200
28.0	31.0	17.6	16 100
30.0	22.2	13.4	14 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>33.5m (110 Ft.) BOOM</b>			
6.7	82.3	35.6	114 400
7.0	81.8	35.5	109 000
8.0	80.0	35.4	92 800
9.0	78.3	35.2	80 700
10.0	76.5	34.9	71 100
11.0	74.8	34.6	63 400
12.0	73.0	34.3	57 000
13.0	71.2	34.0	51 700
14.0	69.3	33.6	47 100
15.0	67.5	33.2	43 000
16.0	65.6	32.7	39 100
18.0	61.7	31.7	32 500
20.0	57.7	30.4	27 600
22.0	53.5	29.0	23 700
24.0	49.1	27.3	20 600
26.0	44.3	25.4	18 000
28.0	39.0	23.0	15 800
30.0	33.1	20.2	14 100
32.0	25.8	16.5	12 500
<b>36.6m (120 Ft.) BOOM</b>			
6.7	82.9	38.7	110 200
7.0	82.5	38.6	105 100
8.0	80.9	38.5	89 900
9.0	79.3	38.3	78 400
10.0	77.7	38.0	69 200
11.0	76.1	37.8	61 800
12.0	74.4	37.5	55 600
13.0	72.8	37.2	50 500
14.0	71.1	36.8	46 000
15.0	69.5	36.5	42 200
16.0	67.8	36.1	38 800
18.0	64.3	35.1	32 500
20.0	60.7	34.0	27 500
22.0	57.0	32.8	23 600
24.0	53.2	31.3	20 400
26.0	49.1	29.6	17 800
28.0	44.7	27.7	15 700
30.0	40.0	25.4	13 900
32.0	34.7	22.7	12 300
34.0	28.5	19.3	11 000
36.0	20.6	14.7	9 900



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**67 860 kg Counterweight**  
**360 Degree Rating**

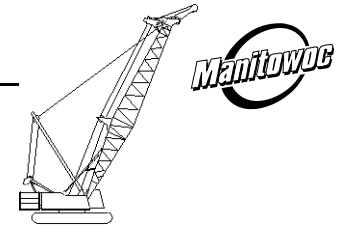
**Maximum Operating Wind Speeds**  
(includes all jib lengths)  
14 m/s with 21.3m thru 54.9m Boom  
10 m/s with 57.9m thru 73.2m Boom  
7 m/s with 76.2m Boom

## 999 SERIES 1

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>39.6m (130 Ft.) BOOM</b>			
7.3	82.6	41.7	96 500
8.0	81.6	41.6	87 200
9.0	80.1	41.4	76 200
10.0	78.6	41.2	67 500
11.0	77.2	40.9	60 300
12.0	75.7	40.7	54 400
13.0	74.2	40.4	49 400
14.0	72.6	40.1	45 100
15.0	71.1	39.7	41 400
16.0	69.6	39.4	38 100
18.0	66.4	38.5	32 400
20.0	63.2	37.5	27 400
22.0	59.9	36.4	23 500
24.0	56.4	35.1	20 400
26.0	52.8	33.6	17 800
28.0	49.1	31.9	15 600
30.0	45.1	30.0	13 800
32.0	40.7	27.8	12 200
34.0	36.0	25.2	10 800
36.0	30.5	22.0	9 700
38.0	24.0	18.0	8 700
<b>42.7m (140 Ft.) BOOM</b>			
7.9	82.3	44.7	85 300
8.0	82.2	44.6	84 500
9.0	80.8	44.5	74 000
10.0	79.5	44.3	65 600
11.0	78.1	44.1	58 700
12.0	76.7	43.8	53 000
13.0	75.3	43.6	48 100
14.0	73.9	43.3	44 000
15.0	72.5	43.0	40 300
16.0	71.1	42.6	37 200
18.0	68.2	41.8	31 900
20.0	65.3	40.9	27 200
22.0	62.2	39.9	23 300
24.0	59.1	38.7	20 100
26.0	55.9	37.4	17 500
28.0	52.6	35.9	15 300
30.0	49.1	34.2	13 500
32.0	45.4	32.3	11 900
34.0	41.4	30.1	10 600
36.0	37.0	27.6	9 400
38.0	32.2	24.6	8 300
40.0	26.6	20.9	7 500
42.0	19.4	16.0	6 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>45.7m (150 Ft.) BOOM</b>			
7.9	82.8	47.7	82 700
8.0	82.7	47.7	81 900
9.0	81.4	47.6	71 900
10.0	80.2	47.4	63 900
11.0	78.9	47.2	57 300
12.0	77.6	47.0	51 700
13.0	76.3	46.7	47 000
14.0	75.0	46.4	42 900
15.0	73.7	46.2	39 400
16.0	72.4	45.8	36 300
18.0	69.7	45.1	31 200
20.0	67.0	44.3	27 000
22.0	64.3	43.3	23 100
24.0	61.4	42.3	19 900
26.0	58.5	41.1	17 300
28.0	55.5	39.7	15 100
30.0	52.3	38.2	13 300
32.0	49.1	36.5	11 700
34.0	45.6	34.6	10 300
36.0	41.9	32.5	9 100
38.0	37.9	30.0	8 100
40.0	33.6	27.2	7 100
42.0	28.6	23.7	6 300
44.0	22.6	19.4	5 600
<b>48.8m (160 Ft.) BOOM</b>			
8.5	82.5	50.7	74 100
9.0	82.0	50.7	70 000
10.0	80.8	50.5	62 200
11.0	79.6	50.3	55 900
12.0	78.4	50.1	50 500
13.0	77.2	49.9	46 000
14.0	76.0	49.6	42 000
15.0	74.8	49.3	38 600
16.0	73.5	49.0	35 600
18.0	71.1	48.4	30 500
20.0	68.5	47.6	26 500
22.0	66.0	46.7	23 000
24.0	63.4	45.7	19 800
26.0	60.7	44.6	17 200
28.0	57.9	43.4	15 000
30.0	55.1	42.1	13 100
32.0	52.1	40.5	11 500
34.0	49.1	38.8	10 200
36.0	45.8	37.0	8 900
38.0	42.4	34.8	7 900
40.0	38.7	32.4	6 900
42.0	34.7	29.7	6 100
44.0	30.2	26.4	5 400
46.0	25.0	22.5	4 700
48.0	18.5	17.3	4 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>51.8m (170 Ft.) BOOM</b>			
8.5	83.0	53.8	72 000
9.0	82.5	53.7	68 000
10.0	81.3	53.6	60 600
11.0	80.2	53.4	54 500
12.0	79.1	53.2	49 300
13.0	78.0	53.0	44 800
14.0	76.8	52.8	41 000
15.0	75.7	52.5	37 700
16.0	74.5	52.2	34 700
18.0	72.2	51.6	29 800
20.0	69.9	50.9	25 800
22.0	67.5	50.1	22 600
24.0	65.1	49.2	19 600
26.0	62.6	48.1	17 000
28.0	60.0	47.0	14 800
30.0	57.4	45.8	12 900
32.0	54.7	44.4	11 300
34.0	52.0	42.8	9 900
36.0	49.1	41.1	8 700
38.0	46.0	39.3	7 600
40.0	42.8	37.2	6 700
42.0	39.4	34.8	5 800
44.0	35.7	32.1	5 100
46.0	31.6	29.1	4 400
48.0	27.0	25.4	3 800
50.0	21.5	20.8	3 300
<b>54.9m (180 Ft.) BOOM</b>			
9.1	82.7	56.8	65 100
10.0	81.8	56.7	59 100
11.0	80.8	56.5	53 100
12.0	79.7	56.3	48 100
13.0	78.6	56.1	43 900
14.0	77.6	55.9	40 200
15.0	76.5	55.6	36 900
16.0	75.4	55.4	34 000
18.0	73.2	54.8	29 200
20.0	71.0	54.1	25 300
22.0	68.8	53.4	22 100
24.0	66.5	52.5	19 400
26.0	64.2	51.6	16 800
28.0	61.9	50.5	14 700
30.0	59.5	49.4	12 800
32.0	57.0	48.1	11 200



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**67 860 kg Counterweight**  
**360 Degree Rating**

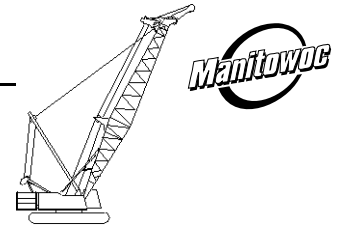
**Maximum Operating Wind Speeds**  
(includes all jib lengths)  
**14 m/s with 21.3m thru 54.9m Boom**  
**10 m/s with 57.9m thru 73.2m Boom**  
**7 m/s with 76.2m Boom**

## 999 SERIES 1

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>54.9m (180 Ft.) BOOM</b>			
34.0	54.4	46.7	9 800
36.0	51.8	45.1	8 500
38.0	49.0	43.4	7 500
40.0	46.2	41.6	6 500
42.0	43.2	39.5	5 700
44.0	40.0	37.2	4 900
46.0	36.6	34.6	4 200
48.0	32.8	31.6	3 600
50.0	28.6	28.2	3 100
52.0	23.8	24.0	2 600
<b>57.9m (190 Ft.) BOOM</b>			
9.8	82.5	59.8	59 100
10.0	82.3	59.8	57 500
11.0	81.3	59.6	51 700
12.0	80.3	59.4	46 900
13.0	79.2	59.2	42 700
14.0	78.2	59.0	39 100
15.0	77.2	58.8	35 900
16.0	76.2	58.5	33 100
18.0	74.2	58.0	28 400
20.0	72.1	57.3	24 600
22.0	70.0	56.6	21 400
24.0	67.8	55.8	18 800
26.0	65.7	54.9	16 500
28.0	63.5	54.0	14 300
30.0	61.2	52.9	12 500
32.0	58.9	51.7	10 800
34.0	56.6	50.4	9 400
36.0	54.1	49.0	8 200
38.0	51.6	47.4	7 100
40.0	49.0	45.7	6 200
42.0	46.3	43.9	5 300
44.0	43.5	41.8	4 600
46.0	40.5	39.6	3 800
48.0	37.3	37.0	3 200
50.0	33.9	34.2	2 700
52.0	30.0	30.9	2 200
<b>61.0m (200 Ft.) BOOM</b>			
9.8	82.9	62.9	57 600
10.0	82.7	62.8	56 100
11.0	81.7	62.7	50 600
12.0	80.7	62.5	45 900
13.0	79.8	62.3	41 800
14.0	78.8	62.1	38 300
15.0	77.9	61.9	35 200
16.0	76.9	61.7	32 500
18.0	75.0	61.2	27 800
20.0	73.0	60.6	24 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>61.0m (200 Ft.) BOOM</b>			
22.0	71.0	59.9	21 000
24.0	69.0	59.1	18 400
26.0	67.0	58.3	16 100
28.0	64.9	57.4	14 200
30.0	62.8	56.4	12 400
32.0	60.7	55.3	10 700
34.0	58.5	54.1	9 300
36.0	56.2	52.7	8 100
38.0	53.9	51.3	7 000
40.0	51.5	49.7	6 000
42.0	49.0	48.0	5 200
44.0	46.5	46.2	4 400
46.0	43.8	44.2	3 700
48.0	41.0	41.9	3 100
50.0	38.0	39.4	2 500
<b>64.0m (210 Ft.) BOOM</b>			
10.4	82.7	65.9	52 600
11.0	82.1	65.8	49 300
12.0	81.2	65.6	44 700
13.0	80.3	65.4	40 800
14.0	79.4	65.2	37 300
15.0	78.5	65.0	34 300
16.0	77.5	64.8	31 600
18.0	75.7	64.3	27 200
20.0	73.8	63.7	23 400
22.0	72.0	63.1	20 400
24.0	70.1	62.4	17 800
26.0	68.1	61.6	15 600
28.0	66.2	60.7	13 700
30.0	64.2	59.8	12 100
32.0	62.2	58.8	10 500
34.0	60.1	57.6	9 100
36.0	58.0	56.4	7 800
38.0	55.9	55.1	6 800
40.0	53.7	53.6	5 800
42.0	51.4	52.0	4 900
44.0	49.0	50.3	4 100
46.0	46.6	48.5	3 400
48.0	44.1	46.5	2 800
50.0	41.4	44.3	2 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>67.1m (220 Ft.) BOOM</b>			
10.4	83.0	68.9	51 200
11.0	82.5	68.8	48 000
12.0	81.6	68.7	43 500
13.0	80.7	68.5	39 700
14.0	79.9	68.3	36 400
15.0	79.0	68.2	33 500
16.0	78.1	67.9	30 800
18.0	76.4	67.5	26 400
20.0	74.6	66.9	22 800
22.0	72.8	66.3	19 800
24.0	71.0	65.6	17 300
26.0	69.2	64.9	15 100
28.0	67.3	64.1	13 200
30.0	65.5	63.2	11 600
32.0	63.6	62.2	10 100
34.0	61.6	61.1	8 800
36.0	59.6	60.0	7 500
38.0	57.6	58.7	6 400
40.0	55.6	57.4	5 500
42.0	53.5	55.9	4 600
44.0	51.3	54.4	3 800
46.0	49.0	52.6	3 100
48.0	46.7	50.8	2 500
50.0	44.3	48.8	1 900
<b>70.1m (230 Ft.) BOOM</b>			
11.0	82.8	71.9	47 000
12.0	82.0	71.8	42 600
13.0	81.1	71.6	38 900
14.0	80.3	71.4	35 600
15.0	79.5	71.3	32 800
16.0	78.6	71.1	30 200
18.0	77.0	70.6	25 900
20.0	75.3	70.1	22 300
22.0	73.6	69.5	19 300
24.0	71.9	68.9	16 900
26.0	70.1	68.2	14 700
28.0	68.4	67.4	12 900
30.0	66.6	66.5	11 200
32.0	64.8	65.6	9 800
34.0	63.0	64.6	8 600
36.0	61.1	63.5	7 400
38.0	59.2	62.3	6 300
40.0	57.3	61.1	5 400
42.0	55.3	59.7	4 500
44.0	53.3	58.2	3 700
46.0	51.2	56.7	3 000
48.0	49.0	54.9	2 300



# Liftcrane Boom Capacities

**Boom No. 82 or 22EL**  
**67 860 kg 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 Boom**

## 999 SERIES 1

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	43 100
12.0	82.3	74.9	41 500
13.0	81.5	74.7	37 900
14.0	80.7	74.5	34 700
15.0	79.9	74.4	31 900
16.0	79.1	74.2	29 400
18.0	77.5	73.7	25 200
20.0	75.9	73.2	21 600
22.0	74.3	72.7	18 800
24.0	72.6	72.1	16 300
26.0	71.0	71.4	14 200
28.0	69.3	70.7	12 300
30.0	67.6	69.8	10 700
32.0	65.9	69.0	9 300
34.0	64.2	68.0	8 100
36.0	62.4	67.0	7 000
38.0	60.6	65.9	5 900
40.0	58.8	64.7	5 000
42.0	56.9	63.4	4 200
44.0	55.0	62.0	3 400
46.0	53.1	60.5	2 700
48.0	51.1	59.0	2 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
<b>76.2m (250 Ft.) BOOM</b>			
11.6	82.9	78.0	42 700
12.0	82.6	77.9	41 100
13.0	81.9	77.8	37 500
14.0	81.1	77.6	34 400
15.0	80.3	77.5	31 700
16.0	79.6	77.3	29 300
18.0	78.0	76.9	25 100
20.0	76.5	76.4	21 700
22.0	74.9	75.9	18 800
24.0	73.4	75.3	16 400
26.0	71.8	74.6	14 300
28.0	70.2	73.9	12 500
30.0	68.6	73.1	11 000
32.0	66.9	72.3	9 600
34.0	65.3	71.4	8 300
36.0	63.6	70.4	7 200
38.0	61.9	69.4	6 200
40.0	60.2	68.2	5 300
42.0	58.4	67.0	4 500
44.0	56.6	65.7	3 700
46.0	54.8	64.3	3 000
48.0	52.9	62.8	2 400

REFRANCO ONLY!