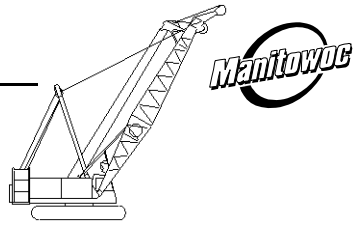
**Manitowoc Cranes, Inc.**
Manitowoc, Wisconsin 54220 U.S.A.



# Liftcrane Boom Capacities

**Meets ANSI B30.5 Requirements**

**Boom No. 84**
**44 680 kg Crane Counterweight**
**19 960 kg Carbody Counterweight**
**360 Degree Rating**

# 555 SERIES 2

**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 (*). Capacities indicated by (b) require 4 540 kg minimum weight. *To maintain boom and mast stability at high boom angles, a minimum of 4 parts hoist line is required when using rear drum on 15.2m thru 21.3m boom lengths.*

Upper boom point capacity for liftcrane service with single part whip line is 13 610 kg or 27 220 kg with two part whip line. When boom butt mounted auxiliary drum equipped for 26 mm wire rope 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.

Weight of upper boom point, 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. Refer to boom rigging **No. A00952** and Wire Rope Specification chart **No. 8443-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.

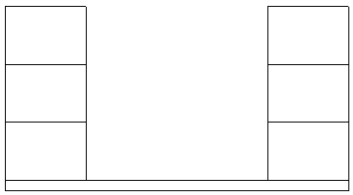
**MACHINE TRAVEL:** Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8445-A**.

**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 7 264 mm crawlers, 1 219 mm treads, 7 010 mm live mast, 16 part boom hoist reeving, boom support straps, rotating bed No. A01066[1] or No. A03188 (refer to I.D. plate at front of rotating bed), 44 680 kg crane counterweight and two 9 980 kg carbody counterweights.

[1]***WARNING:*** 570 kg front counterweight is required for cranes with rotating bed No. A01066 that do not have free-fall option. Counterweight can be removed only if crane has free-fall option on both front and rear drums.



44 680 kg Crane Counterweight
6 Side Boxes

REFERENCE ONLY!

| Maximum Boom and Jib Lengths Lifted Unassisted | | | |
|---|---|---|---|
| Over End of Blocked Crawlers | | Over Side of Crawlers | |
| Boom Length | Jib No. 134 | Boom Length | Jib No. 134 |
| (a,b) 76.2m | — | (b) 67.1m | — |
| (b) 73.2m | — | 64.0m | — |
| 70.1m | — | 61.0m | 9.1m |
| 67.1m | 12.2m | 57.9m | 15.2m |
| 64.0m | 18.3m | 54.9m | 24.4m |
| 61.0m | 24.4m | | |

Load block, hook and weight ball on ground at start.
(a) Upper boom point cannot be attached on 76.2m boom.
(b) Upper wire rope guide (No. A04352) for third line cannot be attached on 73.2m and 76.2m booms and cannot be lifted over side of crawlers on 67.1m boom.

| Upper Boom Point Deduct |
|---|
| Deduct 500 kg from capacities when upper boom point is attached. |

| Wire Rope Guide Deduct (For Third Line) |
|---|
| Deduct 270 kg from boom capacities when upper wire rope guide (No. A04352) for third line is attached. |

| Deduct From Capacities When Jib Is Attached | |
|---|---|
| Jib Length | Jib No. 134 |
| 9.1m | 1 770 kg |
| 12.2m | 2 130 kg |
| 15.2m | 2 540 kg |
| 18.3m | 2 990 kg |
| 21.3m | 3 450 kg |
| 24.4m | 3 950 kg |

Consult jib chart for jib capacities. Upper boom point and upper wire rope guide (No. A04352) for third line must be removed when jib is attached.

**Manitowoc Cranes, Inc.**
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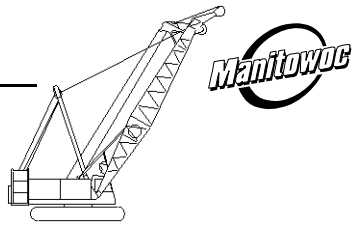
# Liftcrane Boom Capacities

**Meets ANSI B30.5 Requirements**




**Boom No. 84**
**44 680 kg Crane Counterweight**
**19 960 kg Carbody Counterweight**
**360 Degree Rating**

## 555 SERIES 2

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **15.2m (50 Ft.) Boom** | | | |
| 4.6 | 80.6 | 16.8 | 136 000 ***b** |
| 5.0 | 78.9 | 16.7 | 125 000 ***b** |
| 5.5 | 77.0 | 16.6 | 114 100 ***b** |
| 6.0 | 75.0 | 16.4 | 104 900 ***b** |
| 7.0 | 71.1 | 16.1 | 88 300 **b** |
| 8.0 | 67.0 | 15.7 | 70 900 |
| 9.0 | 62.7 | 15.1 | 59 400 |
| 10.0 | 58.3 | 14.5 | 51 000 |
| 11.0 | 53.7 | 13.8 | 44 500 |
| 12.0 | 48.7 | 12.9 | 39 300 |
| 13.0 | 43.3 | 11.9 | 35 100 |
| 14.0 | 37.2 | 10.6 | 31 700 |
| 15.0 | 30.0 | 9.0 | 28 700 |
| **18.3m (60 Ft.) Boom** | | | |
| 4.6 | 82.2 | 19.9 | 135 600 ***b** |
| 5.0 | 80.8 | 19.8 | 125 000 ***b** |
| 5.5 | 79.2 | 19.7 | 114 100 ***b** |
| 6.0 | 77.6 | 19.6 | 104 900 ***b** |
| 7.0 | 74.3 | 19.3 | 88 700 **b** |
| 8.0 | 71.0 | 19.0 | 71 200 |
| 9.0 | 67.6 | 18.5 | 59 700 |
| 10.0 | 64.2 | 18.1 | 51 200 |
| 11.0 | 60.6 | 17.5 | 44 700 |
| 12.0 | 56.8 | 16.8 | 39 600 |
| 13.0 | 52.9 | 16.1 | 35 300 |
| 14.0 | 48.8 | 15.2 | 31 900 |
| 15.0 | 44.3 | 14.2 | 29 000 |
| 16.0 | 39.5 | 13.0 | 26 500 |
| 18.0 | 27.5 | 9.8 | 22 400 |
| **21.3m (70 Ft.) Boom** | | | |
| 4.9 | 82.5 | 22.9 | 125 800 ***b** |
| 5.0 | 82.1 | 22.9 | 123 700 ***b** |
| 5.5 | 80.8 | 22.8 | 114 000 ***b** |
| 6.0 | 79.4 | 22.7 | 104 800 ***b** |
| 7.0 | 76.6 | 22.5 | 88 600 **b** |
| 8.0 | 73.8 | 22.2 | 71 300 |
| 9.0 | 71.0 | 21.8 | 59 800 |
| 10.0 | 68.1 | 21.4 | 51 300 |
| 11.0 | 65.1 | 21.0 | 44 800 |
| 12.0 | 62.1 | 20.4 | 39 700 |
| 13.0 | 59.0 | 19.8 | 35 400 |
| 14.0 | 55.7 | 19.2 | 32 000 |
| 15.0 | 52.3 | 18.4 | 29 100 |
| 16.0 | 48.8 | 17.5 | 26 600 |
| 18.0 | 41.0 | 15.4 | 22 600 |
| 20.0 | 31.5 | 12.5 | 19 500 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **24.4m (80 Ft.) Boom** | | | |
| 5.2 | 82.7 | 26.0 | 119 700 ***b** |
| 5.5 | 81.9 | 25.9 | 114 000 ***b** |
| 6.0 | 80.7 | 25.8 | 104 800 ***b** |
| 7.0 | 78.3 | 25.6 | 88 700 **b** |
| 8.0 | 75.9 | 25.4 | 71 400 |
| 9.0 | 73.5 | 25.1 | 59 900 |
| 10.0 | 71.0 | 24.7 | 51 400 |
| 11.0 | 68.5 | 24.3 | 44 900 |
| 12.0 | 65.9 | 23.9 | 39 700 |
| 13.0 | 63.2 | 23.4 | 35 500 |
| 14.0 | 60.5 | 22.8 | 32 100 |
| 15.0 | 57.8 | 22.2 | 29 200 |
| 16.0 | 54.9 | 21.5 | 26 700 |
| 18.0 | 48.8 | 19.8 | 22 700 |
| 20.0 | 42.1 | 17.8 | 19 600 |
| 22.0 | 34.2 | 15.1 | 17 100 |
| 24.0 | 24.2 | 11.3 | 15 000 |
| **27.4m (90 Ft.) Boom** | | | |
| 5.5 | 82.9 | 29.0 | 110 200 ***b** |
| 6.0 | 81.8 | 28.9 | 105 000 ***b** |
| 7.0 | 79.7 | 28.7 | 88 500 **b** |
| 8.0 | 77.5 | 28.5 | 71 400 |
| 9.0 | 75.4 | 28.2 | 59 800 |
| 10.0 | 73.2 | 27.9 | 51 300 |
| 11.0 | 71.0 | 27.6 | 44 800 |
| 12.0 | 68.7 | 27.2 | 39 700 |
| 13.0 | 66.4 | 26.8 | 35 500 |
| 14.0 | 64.1 | 26.3 | 32 000 |
| 15.0 | 61.8 | 25.7 | 29 100 |
| 16.0 | 59.3 | 25.2 | 26 600 |
| 18.0 | 54.3 | 23.8 | 22 700 |
| 20.0 | 48.8 | 22.1 | 19 600 |
| 22.0 | 42.9 | 20.1 | 17 100 |
| 24.0 | 36.2 | 17.6 | 15 000 |
| 26.0 | 28.0 | 14.2 | 13 300 |
| **30.5m (100 Ft.) Boom** | | | |
| 5.8 | 83.0 | 32.0 | 104 700 ***b** |
| 6.0 | 82.6 | 32.0 | 103 500 ***b** |
| 7.0 | 80.7 | 31.8 | 88 500 **b** |
| 8.0 | 78.8 | 31.6 | 71 500 |
| 9.0 | 76.9 | 31.4 | 59 900 |
| 10.0 | 74.9 | 31.1 | 51 400 |
| 11.0 | 72.9 | 30.8 | 44 900 |
| 12.0 | 71.0 | 30.5 | 39 700 |
| 13.0 | 68.9 | 30.1 | 35 500 |
| 14.0 | 66.9 | 29.7 | 32 100 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **30.5m (100 Ft.) Boom** | | | |
| 15.0 | 64.8 | 29.2 | 29 200 |
| 16.0 | 62.7 | 28.7 | 26 700 |
| 18.0 | 58.3 | 27.5 | 22 700 |
| 20.0 | 53.7 | 26.1 | 19 600 |
| 22.0 | 48.9 | 24.4 | 17 100 |
| 24.0 | 43.6 | 22.4 | 15 100 |
| 26.0 | 37.6 | 20.0 | 13 400 |
| 28.0 | 30.8 | 17.0 | 12 000 |
| 30.0 | 22.0 | 12.7 | 10 800 |
| **33.5m (110 Ft.) Boom** | | | |
| 6.7 | 82.1 | 35.0 | 92 600 * |
| 7.0 | 81.6 | 34.9 | 87 600 |
| 8.0 | 79.8 | 34.7 | 71 500 |
| 9.0 | 78.1 | 34.5 | 59 900 |
| 10.0 | 76.3 | 34.3 | 51 400 |
| 11.0 | 74.5 | 34.0 | 44 800 |
| 12.0 | 72.8 | 33.7 | 39 600 |
| 13.0 | 70.9 | 33.4 | 35 400 |
| 14.0 | 69.1 | 33.0 | 32 000 |
| 15.0 | 67.3 | 32.6 | 29 100 |
| 16.0 | 65.4 | 32.1 | 26 600 |
| 18.0 | 61.5 | 31.1 | 22 600 |
| 20.0 | 57.5 | 29.8 | 19 600 |
| 22.0 | 53.3 | 28.4 | 17 100 |
| 24.0 | 48.9 | 26.7 | 15 000 |
| 26.0 | 44.1 | 24.8 | 13 400 |
| 28.0 | 38.8 | 22.4 | 11 900 |
| 30.0 | 32.8 | 19.6 | 10 700 |
| 32.0 | 25.6 | 15.8 | 9 700 |
| **36.6m (120 Ft.) Boom** | | | |
| 6.7 | 82.7 | 38.1 | 88 100 * |
| 7.0 | 82.3 | 38.0 | 85 200 |
| 8.0 | 80.7 | 37.8 | 71 400 |
| 9.0 | 79.1 | 37.7 | 59 800 |
| 10.0 | 77.5 | 37.4 | 51 300 |
| 11.0 | 75.9 | 37.2 | 44 800 |
| 12.0 | 74.2 | 36.9 | 39 600 |
| 13.0 | 72.6 | 36.6 | 35 400 |
| 14.0 | 70.9 | 36.2 | 31 900 |
| 15.0 | 69.3 | 35.9 | 29 000 |
| 16.0 | 67.6 | 35.4 | 26 600 |
| 18.0 | 64.1 | 34.5 | 22 600 |
| 20.0 | 60.5 | 33.4 | 19 500 |
| 22.0 | 56.8 | 32.2 | 17 000 |
| 24.0 | 53.0 | 30.7 | 15 000 |
| 26.0 | 48.9 | 29.0 | 13 300 |
| 28.0 | 44.5 | 27.1 | 11 900 |
| 30.0 | 39.8 | 24.8 | 10 700 |
| 32.0 | 34.5 | 22.1 | 9 600 |
| 34.0 | 28.3 | 18.7 | 8 700 |
| 36.0 | 20.4 | 14.1 | 7 900 |

REFERENCE ONLY

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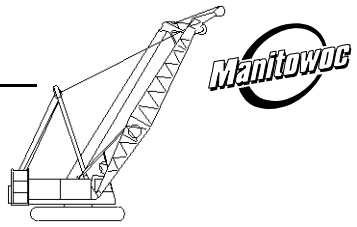


# Liftcrane Boom Capacities

**Meets ANSI B30.5 Requirements**

**Boom No. 84**
**44 680 kg Crane Counterweight**
**19 960 kg Carbody Counterweight**
**360 Degree Rating**

## 555 SERIES 2

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **39.6m (130 Ft.) Boom** | | | |
| 7.3 | 82.4 | 41.0 | 78 400 * |
| 8.0 | 81.4 | 40.9 | 71 600 |
| 9.0 | 79.9 | 40.8 | 59 800 |
| 10.0 | 78.5 | 40.6 | 51 200 |
| 11.0 | 77.0 | 40.3 | 44 700 |
| 12.0 | 75.5 | 40.1 | 39 500 |
| 13.0 | 74.0 | 39.8 | 35 300 |
| 14.0 | 72.5 | 39.5 | 31 900 |
| 15.0 | 70.9 | 39.1 | 29 000 |
| 16.0 | 69.4 | 38.7 | 26 500 |
| 18.0 | 66.2 | 37.9 | 22 500 |
| 20.0 | 63.0 | 36.9 | 19 400 |
| 22.0 | 59.7 | 35.8 | 16 900 |
| 24.0 | 56.3 | 34.5 | 14 900 |
| 26.0 | 52.7 | 33.0 | 13 200 |
| 28.0 | 48.9 | 31.3 | 11 800 |
| 30.0 | 44.9 | 29.4 | 10 600 |
| 32.0 | 40.5 | 27.2 | 9 500 |
| 34.0 | 35.8 | 24.6 | 8 600 |
| 36.0 | 30.4 | 21.4 | 7 800 |
| 38.0 | 23.8 | 17.3 | 7 100 |
| **42.7m (140 Ft.) Boom** | | | |
| 7.3 | 83.0 | 44.1 | 73 700 * |
| 8.0 | 82.0 | 44.0 | 70 800 |
| 9.0 | 80.7 | 43.9 | 59 800 |
| 10.0 | 79.3 | 43.7 | 51 200 |
| 11.0 | 77.9 | 43.5 | 44 700 |
| 12.0 | 76.5 | 43.2 | 39 500 |
| 13.0 | 75.2 | 42.9 | 35 200 |
| 14.0 | 73.8 | 42.7 | 31 800 |
| 15.0 | 72.3 | 42.3 | 28 900 |
| 16.0 | 70.9 | 42.0 | 26 400 |
| 18.0 | 68.0 | 41.2 | 22 400 |
| 20.0 | 65.1 | 40.3 | 19 300 |
| 22.0 | 62.1 | 39.3 | 16 800 |
| 24.0 | 59.0 | 38.1 | 14 800 |
| 26.0 | 55.8 | 36.8 | 13 200 |
| 28.0 | 52.4 | 35.3 | 11 800 |
| 30.0 | 48.9 | 33.6 | 10 500 |
| 32.0 | 45.2 | 31.7 | 9 500 |
| 34.0 | 41.2 | 29.5 | 8 600 |
| 36.0 | 36.9 | 27.0 | 7 700 |
| 38.0 | 32.0 | 24.0 | 7 000 |
| 40.0 | 26.4 | 20.3 | 6 400 |
| 42.0 | 19.2 | 15.4 | 5 800 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **45.7m (150 Ft.) Boom** | | | |
| 7.9 | 82.7 | 47.1 | 67 800 * |
| 8.0 | 82.6 | 47.1 | 67 400 |
| 9.0 | 81.3 | 47.0 | 60 000 |
| 10.0 | 80.0 | 46.8 | 51 100 |
| 11.0 | 78.7 | 46.6 | 44 600 |
| 12.0 | 77.5 | 46.4 | 39 400 |
| 13.0 | 76.2 | 46.1 | 35 200 |
| 14.0 | 74.9 | 45.8 | 31 700 |
| 15.0 | 73.6 | 45.5 | 28 800 |
| 16.0 | 72.2 | 45.2 | 26 300 |
| 18.0 | 69.6 | 44.5 | 22 300 |
| 20.0 | 66.9 | 43.7 | 19 200 |
| 22.0 | 64.1 | 42.7 | 16 700 |
| 24.0 | 61.3 | 41.7 | 14 700 |
| 26.0 | 58.3 | 40.5 | 13 000 |
| 28.0 | 55.3 | 39.1 | 11 600 |
| 30.0 | 52.2 | 37.6 | 10 400 |
| 32.0 | 48.9 | 35.9 | 9 400 |
| 34.0 | 45.4 | 34.0 | 8 500 |
| 36.0 | 41.8 | 31.9 | 7 700 |
| 38.0 | 37.8 | 29.4 | 6 900 |
| 40.0 | 33.4 | 26.5 | 6 300 |
| 42.0 | 28.4 | 23.1 | 5 700 |
| 44.0 | 22.4 | 18.8 | 5 100 |
| **48.8m (160 Ft.) Boom** | | | |
| 8.5 | 82.4 | 50.1 | 59 800 * |
| 9.0 | 81.8 | 50.0 | 58 600 |
| 10.0 | 80.6 | 49.9 | 51 000 |
| 11.0 | 79.5 | 49.7 | 44 500 |
| 12.0 | 78.3 | 49.5 | 39 300 |
| 13.0 | 77.0 | 49.2 | 35 100 |
| 14.0 | 75.8 | 49.0 | 31 600 |
| 15.0 | 74.6 | 48.7 | 28 700 |
| 16.0 | 73.4 | 48.4 | 26 200 |
| 18.0 | 70.9 | 47.8 | 22 200 |
| 20.0 | 68.4 | 47.0 | 19 100 |
| 22.0 | 65.8 | 46.1 | 16 600 |
| 24.0 | 63.2 | 45.1 | 14 600 |
| 26.0 | 60.5 | 44.0 | 12 900 |
| 28.0 | 57.8 | 42.8 | 11 500 |
| 30.0 | 54.9 | 41.4 | 10 300 |
| 32.0 | 52.0 | 39.9 | 9 300 |
| 34.0 | 48.9 | 38.2 | 8 400 |
| 36.0 | 45.7 | 36.3 | 7 500 |
| 38.0 | 42.2 | 34.2 | 6 800 |
| 40.0 | 38.6 | 31.8 | 6 200 |
| 42.0 | 34.6 | 29.1 | 5 600 |
| 44.0 | 30.1 | 25.8 | 5 000 |
| 46.0 | 24.9 | 21.9 | 4 600 |
| 48.0 | 18.3 | 16.6 | 4 100 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **51.8m (170 Ft.) Boom** | | | |
| 8.5 | 82.8 | 53.2 | 57 600 * |
| 9.0 | 82.3 | 53.1 | 56 400 * |
| 10.0 | 81.2 | 53.0 | 51 200 |
| 11.0 | 80.1 | 52.8 | 44 400 |
| 12.0 | 79.0 | 52.6 | 39 200 |
| 13.0 | 77.8 | 52.4 | 35 000 |
| 14.0 | 76.7 | 52.1 | 31 500 |
| 15.0 | 75.5 | 51.9 | 28 600 |
| 16.0 | 74.4 | 51.6 | 26 100 |
| 18.0 | 72.1 | 51.0 | 22 100 |
| 20.0 | 69.7 | 50.3 | 19 000 |
| 22.0 | 67.3 | 49.4 | 16 500 |
| 24.0 | 64.9 | 48.5 | 14 400 |
| 26.0 | 62.4 | 47.5 | 12 800 |
| 28.0 | 59.9 | 46.4 | 11 400 |
| 30.0 | 57.3 | 45.1 | 10 200 |
| 32.0 | 54.6 | 43.8 | 9 100 |
| 34.0 | 51.8 | 42.2 | 8 200 |
| 36.0 | 48.9 | 40.5 | 7 400 |
| 38.0 | 45.9 | 38.7 | 6 700 |
| 40.0 | 42.7 | 36.6 | 6 000 |
| 42.0 | 39.3 | 34.2 | 5 500 |
| 44.0 | 35.6 | 31.5 | 4 900 |
| 46.0 | 31.5 | 28.4 | 4 400 |
| 48.0 | 26.9 | 24.8 | 4 000 |
| 50.0 | 21.3 | 20.2 | 3 600 |

REFERENCE ONLY

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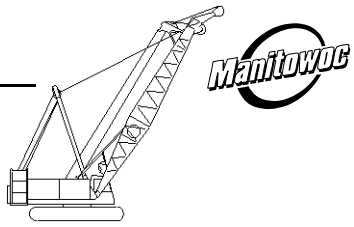
Manitowoc, Wisconsin 54220 U.S.A.

# Liftcrane Boom Capacities

**Meets ANSI B30.5 Requirements**



**Boom No. 84**
**44 680 kg Crane Counterweight**
**19 960 kg Carbody Counterweight**
**360 Degree Rating**

## 555 SERIES 2

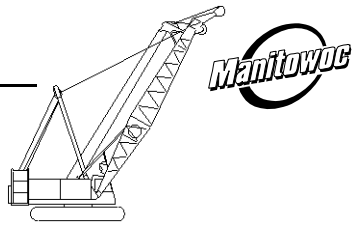
| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **54.9m (180 Ft.) Boom** | | | |
| 9.1 | 82.6 | 56.2 | 52 900 * |
| 10.0 | 81.7 | 56.1 | 50 500 |
| 11.0 | 80.6 | 55.9 | 44 300 |
| 12.0 | 79.6 | 55.7 | 39 100 |
| 13.0 | 78.5 | 55.5 | 34 900 |
| 14.0 | 77.4 | 55.3 | 31 400 |
| 15.0 | 76.4 | 55.0 | 28 500 |
| 16.0 | 75.3 | 54.8 | 26 000 |
| 18.0 | 73.1 | 54.2 | 22 000 |
| 20.0 | 70.9 | 53.5 | 18 900 |
| 22.0 | 68.7 | 52.7 | 16 400 |
| 24.0 | 66.4 | 51.9 | 14 400 |
| 26.0 | 64.1 | 51.0 | 12 700 |
| 28.0 | 61.7 | 49.9 | 11 300 |
| 30.0 | 59.3 | 48.7 | 10 100 |
| 32.0 | 56.8 | 47.5 | 9 000 |
| 34.0 | 54.3 | 46.1 | 8 100 |
| 36.0 | 51.7 | 44.5 | 7 300 |
| 38.0 | 48.9 | 42.8 | 6 600 |
| 40.0 | 46.1 | 41.0 | 6 000 |
| 42.0 | 43.0 | 38.9 | 5 400 |
| 44.0 | 39.9 | 36.6 | 4 900 |
| 46.0 | 36.4 | 34.0 | 4 400 |
| 48.0 | 32.7 | 31.0 | 3 900 |
| 50.0 | 28.5 | 27.5 | 3 500 |
| 52.0 | 23.7 | 23.4 | 3 100 |
| **57.9m (190 Ft.) Boom** | | | |
| 9.8 | 82.4 | 59.2 | 44 900 * |
| 10.0 | 82.1 | 59.1 | 44 900 * |
| 11.0 | 81.1 | 59.0 | 44 300 |
| 12.0 | 80.1 | 58.8 | 39 000 |
| 13.0 | 79.1 | 58.6 | 34 800 |
| 14.0 | 78.1 | 58.4 | 31 300 |
| 15.0 | 77.1 | 58.2 | 28 400 |
| 16.0 | 76.1 | 57.9 | 25 900 |
| 18.0 | 74.0 | 57.4 | 21 800 |
| 20.0 | 71.9 | 56.7 | 18 700 |
| 22.0 | 69.8 | 56.0 | 16 300 |
| 24.0 | 67.7 | 55.2 | 14 300 |
| 26.0 | 65.6 | 54.3 | 12 600 |
| 28.0 | 63.3 | 53.4 | 11 100 |
| 30.0 | 61.1 | 52.3 | 10 000 |
| 32.0 | 58.8 | 51.1 | 8 900 |
| 34.0 | 56.4 | 49.8 | 8 000 |
| 36.0 | 54.0 | 48.4 | 7 200 |
| 38.0 | 51.5 | 46.8 | 6 500 |
| 40.0 | 48.9 | 45.1 | 5 800 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **57.9m (190 Ft.) Boom** | | | |
| 42.0 | 46.2 | 43.3 | 5 200 |
| 44.0 | 43.4 | 41.2 | 4 700 |
| 46.0 | 40.4 | 38.9 | 4 200 |
| 48.0 | 37.2 | 36.4 | 3 800 |
| 50.0 | 33.7 | 33.5 | 3 400 |
| 52.0 | 29.9 | 30.2 | 3 000 |
| 54.0 | 25.6 | 26.3 | 2 700 |
| 56.0 | 20.4 | 21.5 | 2 300 |
| **61.0m (200 Ft.) Boom** | | | |
| 10.4 | 82.2 | 62.2 | 43 200 * |
| 11.0 | 81.6 | 62.1 | 42 000 * |
| 12.0 | 80.6 | 61.9 | 39 100 |
| 13.0 | 79.7 | 61.7 | 34 700 |
| 14.0 | 78.7 | 61.5 | 31 200 |
| 15.0 | 77.8 | 61.3 | 28 200 |
| 16.0 | 76.8 | 61.1 | 25 700 |
| 18.0 | 74.8 | 60.5 | 21 700 |
| 20.0 | 72.9 | 59.9 | 18 600 |
| 22.0 | 70.9 | 59.3 | 16 100 |
| 24.0 | 68.9 | 58.5 | 14 100 |
| 26.0 | 66.9 | 57.7 | 12 400 |
| 28.0 | 64.8 | 56.8 | 11 000 |
| 30.0 | 62.7 | 55.7 | 9 800 |
| 32.0 | 60.5 | 54.6 | 8 800 |
| 34.0 | 58.3 | 53.4 | 7 900 |
| 36.0 | 56.1 | 52.1 | 7 100 |
| 38.0 | 53.8 | 50.7 | 6 300 |
| 40.0 | 51.4 | 49.1 | 5 700 |
| 42.0 | 48.9 | 47.4 | 5 100 |
| 44.0 | 46.4 | 45.6 | 4 600 |
| 46.0 | 43.7 | 43.5 | 4 100 |
| 48.0 | 40.9 | 41.3 | 3 700 |
| 50.0 | 37.9 | 38.8 | 3 300 |
| 52.0 | 34.6 | 36.0 | 2 900 |
| 54.0 | 31.1 | 32.9 | 2 600 |
| 56.0 | 27.2 | 29.2 | 2 200 |
| **64.0m (210 Ft.) Boom** | | | |
| 11.0 | 82.0 | 65.2 | 39 600 * |
| 12.0 | 81.1 | 65.0 | 37 900 * |
| 13.0 | 80.2 | 64.8 | 35 100 |
| 14.0 | 79.3 | 64.6 | 31 100 |
| 15.0 | 78.3 | 64.4 | 28 100 |
| 16.0 | 77.4 | 64.2 | 25 600 |
| 18.0 | 75.6 | 63.7 | 21 600 |
| 20.0 | 73.7 | 63.1 | 18 500 |
| 22.0 | 71.8 | 62.5 | 16 000 |
| 24.0 | 69.9 | 61.8 | 14 000 |
| 26.0 | 68.0 | 61.0 | 12 300 |
| 28.0 | 66.1 | 60.1 | 10 900 |
| 30.0 | 64.1 | 59.2 | 9 700 |
| 32.0 | 62.1 | 58.1 | 8 600 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| **64.0m (210 Ft.) Boom** | | | |
| 34.0 | 60.0 | 57.0 | 7 700 |
| 36.0 | 57.9 | 55.8 | 6 900 |
| 38.0 | 55.8 | 54.4 | 6 200 |
| 40.0 | 53.6 | 53.0 | 5 500 |
| 42.0 | 51.3 | 51.4 | 5 000 |
| 44.0 | 48.9 | 49.7 | 4 400 |
| 46.0 | 46.5 | 47.9 | 4 000 |
| 48.0 | 43.9 | 45.9 | 3 500 |
| 50.0 | 41.3 | 43.6 | 3 100 |
| 52.0 | 38.4 | 41.2 | 2 700 |
| 54.0 | 35.4 | 38.5 | 2 400 |
| 56.0 | 32.2 | 35.5 | 2 100 |
| **67.1m (220 Ft.) Boom** | | | |
| 11.0 | 82.4 | 68.2 | 37 200 * |
| 12.0 | 81.5 | 68.1 | 35 600 * |
| 13.0 | 80.6 | 67.9 | 33 700 |
| 14.0 | 79.8 | 67.7 | 31 100 |
| 15.0 | 78.9 | 67.5 | 28 200 |
| 16.0 | 78.0 | 67.3 | 25 500 |
| 18.0 | 76.3 | 66.8 | 21 500 |
| 20.0 | 74.5 | 66.3 | 18 400 |
| 22.0 | 72.7 | 65.7 | 15 900 |
| 24.0 | 70.9 | 65.0 | 13 900 |
| 26.0 | 69.1 | 64.3 | 12 200 |
| 28.0 | 67.2 | 63.5 | 10 800 |
| 30.0 | 65.3 | 62.6 | 9 600 |
| 32.0 | 63.4 | 61.6 | 8 500 |
| 34.0 | 61.5 | 60.5 | 7 600 |
| 36.0 | 59.5 | 59.4 | 6 800 |
| 38.0 | 57.5 | 58.1 | 6 100 |
| 40.0 | 55.5 | 56.8 | 5 400 |
| 42.0 | 53.3 | 55.3 | 4 800 |
| 44.0 | 51.2 | 53.7 | 4 300 |
| 46.0 | 48.9 | 52.0 | 3 900 |
| 48.0 | 46.6 | 50.2 | 3 400 |
| 50.0 | 44.2 | 48.2 | 3 000 |
| 52.0 | 41.7 | 46.0 | 2 600 |
| 54.0 | 39.0 | 43.6 | 2 300 |
| 56.0 | 36.1 | 41.0 | 2 000 |

REFERENCE ONLY

**Manitowoc Cranes, Inc.**
Manitowoc, Wisconsin 54220 U.S.A.



# Liftcrane Boom Capacities

**Meets ANSI B30.5 Requirements**

**Boom No. 84**
**44 680 kg Crane Counterweight**
**19 960 kg Carbody Counterweight**
**360 Degree Rating**

## 555 SERIES 2

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| 70.1m (230 Ft.) Boom | | | |
| 11.6 | 82.2 | 71.2 | 35 500 * |
| 12.0 | 81.9 | 71.2 | 35 300 * |
| 13.0 | 81.0 | 71.0 | 34 000 |
| 14.0 | 80.2 | 70.8 | 31 000 |
| 15.0 | 79.4 | 70.6 | 28 000 |
| 16.0 | 78.5 | 70.4 | 25 400 |
| 18.0 | 76.9 | 70.0 | 21 300 |
| 20.0 | 75.2 | 69.5 | 18 200 |
| 22.0 | 73.5 | 68.9 | 15 700 |
| 24.0 | 71.8 | 68.3 | 13 700 |
| 26.0 | 70.0 | 67.5 | 12 000 |
| 28.0 | 68.3 | 66.8 | 10 600 |
| 30.0 | 66.5 | 65.9 | 9 400 |
| 32.0 | 64.7 | 65.0 | 8 300 |
| 34.0 | 62.9 | 64.0 | 7 400 |
| 36.0 | 61.0 | 62.9 | 6 600 |
| 38.0 | 59.1 | 61.7 | 5 900 |
| 40.0 | 57.2 | 60.5 | 5 300 |
| 42.0 | 55.2 | 59.1 | 4 700 |
| 44.0 | 53.2 | 57.6 | 4 200 |
| 46.0 | 51.1 | 56.0 | 3 700 |
| 48.0 | 48.9 | 54.3 | 3 200 |
| 50.0 | 46.7 | 52.5 | 2 900 |
| 52.0 | 44.4 | 50.5 | 2 500 |
| 54.0 | 42.0 | 48.3 | 2 100 |
| 56.0 | 39.5 | 46.0 | 1 800 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| 73.2m (240 Ft.) Boom | | | |
| 11.6 | 82.5 | 74.3 | 29 900 * |
| 12.0 | 82.2 | 74.2 | 29 900 * |
| 13.0 | 81.4 | 74.1 | 29 900 * |
| 14.0 | 80.6 | 73.9 | 29 400 |
| 15.0 | 79.8 | 73.7 | 27 600 |
| 16.0 | 79.0 | 73.6 | 25 500 |
| 18.0 | 77.4 | 73.1 | 21 200 |
| 20.0 | 75.8 | 72.6 | 18 100 |
| 22.0 | 74.2 | 72.1 | 15 600 |
| 24.0 | 72.5 | 71.5 | 13 600 |
| 26.0 | 70.9 | 70.8 | 11 900 |
| 28.0 | 69.2 | 70.0 | 10 500 |
| 30.0 | 67.5 | 69.2 | 9 300 |
| 32.0 | 65.8 | 68.3 | 8 200 |
| 34.0 | 64.1 | 67.4 | 7 300 |
| 36.0 | 62.3 | 66.4 | 6 500 |
| 38.0 | 60.5 | 65.3 | 5 800 |
| 40.0 | 58.7 | 64.1 | 5 100 |
| 42.0 | 56.8 | 62.8 | 4 500 |
| 44.0 | 54.9 | 61.4 | 4 000 |
| 46.0 | 53.0 | 59.9 | 3 600 |
| 48.0 | 51.0 | 58.3 | 3 100 |
| 50.0 | 48.9 | 56.6 | 2 700 |
| 52.0 | 46.8 | 54.8 | 2 400 |
| 54.0 | 44.6 | 52.8 | 2 000 |

| Oper. Rad. Meters | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---|---|---|---|
| 76.2m (250 Ft.) Boom | | | |
| 12.2 | 82.4 | 77.3 | 28 700 * |
| 13.0 | 81.8 | 77.2 | 28 400 * |
| 14.0 | 81.0 | 77.0 | 28 100 |
| 15.0 | 80.2 | 76.8 | 27 200 |
| 16.0 | 79.5 | 76.7 | 25 500 |
| 18.0 | 77.9 | 76.2 | 21 100 |
| 20.0 | 76.4 | 75.8 | 18 000 |
| 22.0 | 74.8 | 75.2 | 15 500 |
| 24.0 | 73.3 | 74.7 | 13 400 |
| 26.0 | 71.7 | 74.0 | 11 800 |
| 28.0 | 70.1 | 73.3 | 10 300 |
| 30.0 | 68.5 | 72.5 | 9 100 |
| 32.0 | 66.8 | 71.7 | 8 100 |
| 34.0 | 65.2 | 70.8 | 7 100 |
| 36.0 | 63.5 | 69.8 | 6 300 |
| 38.0 | 61.8 | 68.8 | 5 600 |
| 40.0 | 60.1 | 67.6 | 5 000 |
| 42.0 | 58.3 | 66.4 | 4 400 |
| 44.0 | 56.5 | 65.1 | 3 900 |
| 46.0 | 54.7 | 63.7 | 3 400 |
| 48.0 | 52.8 | 62.2 | 3 000 |
| 50.0 | 50.9 | 60.6 | 2 600 |
| 52.0 | 48.9 | 58.9 | 2 200 |

REFERENCE ONLY