

# Liftcrane Boom Capacities

**Boom No. 78**  
**64 410 kg Crane Counterweight**  
**19 960 kg Carbody Counterweight**  
**360 Degree Rating**

Meets  
ANSI B30.5  
Requirements

## 777 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 (\*).

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.

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. Refer to boom rigging **No. 178288** and Wire Rope Specification chart **No. 7940-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. 7957-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 7 544 mm crawlers, 965 mm or 1 219 mm treads, two 305 mm boom hoist cylinders, 7 925 mm mast, four 32 mm boom pendants, 64 410 kg crane counterweight and two 9 980 kg carbody counterweights.

| Deduct From Capacities<br>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    |

| Upper Boom Point Deduct                                               |
|-----------------------------------------------------------------------|
| Deduct 450 kg from boom capacities when upper boom point is attached. |

| Auxiliary Drum Deduct                                                              |
|------------------------------------------------------------------------------------|
| Deduct 770 kg from boom capacities when boom butt is equipped with auxiliary drum. |

| Multi-Part Rope Guard Deduct                                                                                  |
|---------------------------------------------------------------------------------------------------------------|
| Deduct 230 kg from boom capacities when lower boom point is equipped with multi-part rope guard (No. A02744). |

| Wire Rope Guide Deduct<br>(For Third Line)                                                                |
|-----------------------------------------------------------------------------------------------------------|
| Deduct 230 kg from boom capacities when boom top wire rope guide (No. 192312) for third line is attached. |

Consult jib chart for jib capacities.

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| Maximum Boom and Jib Lengths Lifted Unassisted |             |                               |             |                       |             |
|------------------------------------------------|-------------|-------------------------------|-------------|-----------------------|-------------|
| Over Front of Blocked Crawlers                 |             | Over Rear of Blocked Crawlers |             | Over Side of Crawlers |             |
| Boom Length                                    | Jib No. 134 | Boom Length                   | Jib No. 134 | Boom Length           | Jib No. 134 |
| (a) 82.3m                                      | —           | (a) 79.2m                     | —           | (b) 70.1m             | —           |
| (a) 79.2m                                      | —           | 76.2m                         | —           | 67.1m                 | —           |
| 76.2m                                          | —           | 73.2m                         | —           | 64.0m                 | 15.2m       |
| 73.2m                                          | 9.1m        | 70.1m                         | 15.2m       | 61.0m                 | 21.3m       |
| 70.1m                                          | 15.2m       | 67.1m                         | 21.3m       | 57.9m                 | 24.4m       |
| 67.1m                                          | 24.4m       | 64.0m                         | 24.4m       |                       |             |

Load block, hook and weight ball on ground at start. (a) Upper boom point, multi-part rope guard (No. A02744) and boom top wire rope guide (No. 192312) for third line cannot be used on 79.2m and 82.3m booms. Auxiliary drum in boom butt and wire rope guide in 3.0m insert cannot be used on 82.3m boom. (b) When multi-part rope guard (No. A02744) is attached to lower boom point, 70.1m boom cannot be lifted over side of crawlers.

Upper boom point, multi-part rope guard (No. A02744) and boom top wire rope guide (No. 192312) for third line cannot be used when jib is attached.

| Oper. Rad. Meters                     | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|---------------------------------------|----------------|-------------------------|-------------------------|
| <b>7.6m (25 Ft.) BOOM<sup>1</sup></b> |                |                         |                         |
| 3.4                                   | 82.1           | 9.8                     | 181 400 *               |
| <b>18.3m (60 Ft.) BOOM</b>            |                |                         |                         |
| 4.0                                   | 82.4           | 20.4                    | 160 000 *               |
| 4.5                                   | 80.7           | 20.3                    | 146 100 *               |
| 5.0                                   | 79.1           | 20.2                    | 131 900 *               |
| 5.5                                   | 77.5           | 20.1                    | 120 500 *               |
| 6.0                                   | 75.9           | 19.9                    | 110 800 *               |
| 7.0                                   | 72.6           | 19.6                    | 95 200 *                |
| 8.0                                   | 69.2           | 19.2                    | 83 400 *                |
| 9.0                                   | 65.8           | 18.8                    | 74 100 *                |
| 10.0                                  | 62.3           | 18.3                    | 64 500                  |
| 11.0                                  | 58.6           | 17.7                    | 56 200                  |
| 12.0                                  | 54.8           | 17.0                    | 49 600                  |
| 14.0                                  | 46.5           | 15.2                    | 40 000                  |
| 16.0                                  | 36.8           | 12.9                    | 33 100                  |
| 18.0                                  | 23.8           | 9.2                     | 28 100                  |

| Oper. Rad. Meters          | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|----------------------------|----------------|-------------------------|-------------------------|
| <b>21.3m (70 Ft.) BOOM</b> |                |                         |                         |
| 4.3                        | 82.7           | 23.4                    | 140 500 *               |
| 4.5                        | 82.0           | 23.4                    | 138 100 *               |
| 5.0                        | 80.7           | 23.3                    | 131 200 *               |
| 5.5                        | 79.3           | 23.2                    | 120 500 *               |
| 6.0                        | 77.9           | 23.1                    | 110 800 *               |
| 7.0                        | 75.2           | 22.8                    | 95 200 *                |
| 8.0                        | 72.3           | 22.5                    | 83 400 *                |
| 9.0                        | 69.5           | 22.1                    | 74 100 *                |
| 10.0                       | 66.6           | 21.7                    | 64 800                  |
| 11.0                       | 63.6           | 21.2                    | 56 400                  |
| 12.0                       | 60.5           | 20.6                    | 49 800                  |
| 14.0                       | 54.0           | 19.3                    | 40 200                  |
| 16.0                       | 46.9           | 17.6                    | 33 400                  |
| 18.0                       | 38.8           | 15.3                    | 28 400                  |
| 20.0                       | 28.8           | 12.2                    | 24 400                  |

| Oper. Rad. Meters          | Boom Ang. Deg. | Boom Point Elev. Meters | Boom Capacity Kilograms |
|----------------------------|----------------|-------------------------|-------------------------|
| <b>24.4m (80 Ft.) BOOM</b> |                |                         |                         |
| 4.6                        | 82.9           | 26.4                    | 124 900 *               |
| 5.0                        | 81.9           | 26.4                    | 119 900 *               |
| 5.5                        | 80.7           | 26.3                    | 114 500 *               |
| 6.0                        | 79.5           | 26.2                    | 109 600 *               |
| 7.0                        | 77.1           | 26.0                    | 95 200 *                |
| 8.0                        | 74.6           | 25.7                    | 83 300 *                |
| 9.0                        | 72.2           | 25.4                    | 74 000 *                |
| 10.0                       | 69.6           | 25.0                    | 65 000                  |
| 11.0                       | 67.1           | 24.6                    | 56 500                  |
| 12.0                       | 64.5           | 24.1                    | 49 900                  |
| 14.0                       | 59.1           | 23.0                    | 40 300                  |
| 16.0                       | 53.4           | 21.6                    | 33 500                  |
| 18.0                       | 47.2           | 19.9                    | 28 400                  |
| 20.0                       | 40.2           | 17.7                    | 24 600                  |
| 22.0                       | 32.0           | 14.8                    | 21 400                  |
| 24.0                       | 21.0           | 10.6                    | 18 900                  |

<sup>1</sup> Note: Requires additional rigging components.

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| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>27.4m (90 Ft.) BOOM</b>  |                      |                                  |                               |
| 4.9                         | 83.0                 | 29.5                             | 116 400 *                     |
| 5.0                         | 82.8                 | 29.5                             | 115 100 *                     |
| 5.5                         | 81.7                 | 29.4                             | 110 100 *                     |
| 6.0                         | 80.6                 | 29.3                             | 105 500 *                     |
| 7.0                         | 78.5                 | 29.1                             | 95 600 *                      |
| 8.0                         | 76.4                 | 28.9                             | 83 300 *                      |
| 9.0                         | 74.2                 | 28.6                             | 73 900 *                      |
| 10.0                        | 72.0                 | 28.3                             | 65 000                        |
| 11.0                        | 69.8                 | 27.9                             | 56 500                        |
| 12.0                        | 67.5                 | 27.5                             | 49 900                        |
| 14.0                        | 62.9                 | 26.5                             | 40 300                        |
| 16.0                        | 58.0                 | 25.3                             | 33 500                        |
| 18.0                        | 52.9                 | 23.9                             | 28 500                        |
| 20.0                        | 47.4                 | 22.2                             | 24 600                        |
| 22.0                        | 41.3                 | 20.0                             | 21 500                        |
| 24.0                        | 34.3                 | 17.4                             | 19 000                        |
| 26.0                        | 25.7                 | 13.8                             | 16 900                        |
| <b>30.5m (100 Ft.) BOOM</b> |                      |                                  |                               |
| 5.5                         | 82.6                 | 32.5                             | 100 400 *                     |
| 6.0                         | 81.6                 | 32.4                             | 96 300 *                      |
| 7.0                         | 79.7                 | 32.2                             | 89 000 *                      |
| 8.0                         | 77.8                 | 32.0                             | 82 500 *                      |
| 9.0                         | 75.8                 | 31.7                             | 73 900 *                      |
| 10.0                        | 73.9                 | 31.5                             | 65 100                        |
| 11.0                        | 71.9                 | 31.1                             | 56 500                        |
| 12.0                        | 69.9                 | 30.8                             | 49 900                        |
| 14.0                        | 65.8                 | 29.9                             | 40 300                        |
| 16.0                        | 61.6                 | 28.9                             | 33 500                        |
| 18.0                        | 57.2                 | 27.7                             | 28 400                        |
| 20.0                        | 52.5                 | 26.2                             | 24 600                        |
| 22.0                        | 47.5                 | 24.5                             | 21 500                        |
| 24.0                        | 42.1                 | 22.4                             | 19 000                        |
| 26.0                        | 36.0                 | 19.8                             | 16 900                        |
| 28.0                        | 28.8                 | 16.6                             | 15 100                        |
| 30.0                        | 19.3                 | 11.9                             | 13 500                        |
| <b>33.5m (110 Ft.) BOOM</b> |                      |                                  |                               |
| 5.8                         | 82.7                 | 35.5                             | 95 700 *                      |
| 6.0                         | 82.4                 | 35.5                             | 94 000 *                      |
| 7.0                         | 80.6                 | 35.3                             | 86 600 *                      |
| 8.0                         | 78.9                 | 35.1                             | 80 000 *                      |
| 9.0                         | 77.1                 | 34.9                             | 72 200 *                      |
| 10.0                        | 75.4                 | 34.6                             | 64 700                        |
| 11.0                        | 73.6                 | 34.3                             | 56 600                        |
| 12.0                        | 71.8                 | 34.0                             | 50 000                        |
| 14.0                        | 68.1                 | 33.2                             | 40 300                        |
| 16.0                        | 64.4                 | 32.3                             | 33 500                        |
| 18.0                        | 60.5                 | 31.3                             | 28 400                        |
| 20.0                        | 56.4                 | 30.0                             | 24 600                        |
| 22.0                        | 52.2                 | 28.5                             | 21 500                        |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>33.5m (110 Ft.) BOOM</b> |                      |                                  |                               |
| 24.0                        | 47.7                 | 26.8                             | 19 000                        |
| 26.0                        | 42.8                 | 24.7                             | 16 900                        |
| 28.0                        | 37.4                 | 22.3                             | 15 100                        |
| 30.0                        | 31.2                 | 19.3                             | 13 600                        |
| 32.0                        | 23.5                 | 15.3                             | 12 300                        |
| <b>36.6m (120 Ft.) BOOM</b> |                      |                                  |                               |
| 6.1                         | 82.9                 | 38.5                             | 87 100 *                      |
| 7.0                         | 81.4                 | 38.4                             | 81 500 *                      |
| 8.0                         | 79.8                 | 38.2                             | 76 000 *                      |
| 9.0                         | 78.2                 | 38.0                             | 70 100 *                      |
| 10.0                        | 76.6                 | 37.8                             | 63 200 *                      |
| 11.0                        | 75.0                 | 37.5                             | 56 600                        |
| 12.0                        | 73.4                 | 37.2                             | 50 000                        |
| 14.0                        | 70.1                 | 36.5                             | 40 300                        |
| 16.0                        | 66.7                 | 35.7                             | 33 500                        |
| 18.0                        | 63.2                 | 34.7                             | 28 400                        |
| 20.0                        | 59.6                 | 33.6                             | 24 600                        |
| 22.0                        | 55.8                 | 32.3                             | 21 500                        |
| 24.0                        | 51.9                 | 30.8                             | 19 000                        |
| 26.0                        | 47.8                 | 29.1                             | 16 900                        |
| 28.0                        | 43.3                 | 27.1                             | 15 100                        |
| 30.0                        | 38.5                 | 24.7                             | 13 600                        |
| 32.0                        | 33.0                 | 21.8                             | 12 300                        |
| 34.0                        | 26.6                 | 18.2                             | 11 200                        |
| <b>39.6m (130 Ft.) BOOM</b> |                      |                                  |                               |
| 6.7                         | 82.5                 | 41.5                             | 79 800 *                      |
| 7.0                         | 82.1                 | 41.5                             | 78 100 *                      |
| 8.0                         | 80.6                 | 41.3                             | 72 600 *                      |
| 9.0                         | 79.1                 | 41.1                             | 67 800 *                      |
| 10.0                        | 77.7                 | 40.9                             | 61 500 *                      |
| 11.0                        | 76.2                 | 40.7                             | 56 000                        |
| 12.0                        | 74.7                 | 40.4                             | 50 000                        |
| 14.0                        | 71.6                 | 39.8                             | 40 200                        |
| 16.0                        | 68.6                 | 39.0                             | 33 400                        |
| 18.0                        | 65.4                 | 38.1                             | 28 400                        |
| 20.0                        | 62.2                 | 37.1                             | 24 500                        |
| 22.0                        | 58.8                 | 36.0                             | 21 400                        |
| 24.0                        | 55.3                 | 34.6                             | 18 900                        |
| 26.0                        | 51.7                 | 33.1                             | 16 800                        |
| 28.0                        | 47.9                 | 31.4                             | 15 100                        |
| 30.0                        | 43.8                 | 29.4                             | 13 600                        |
| 32.0                        | 39.4                 | 27.1                             | 12 300                        |
| 34.0                        | 34.5                 | 24.3                             | 11 100                        |
| 36.0                        | 28.9                 | 21.0                             | 10 100                        |
| 38.0                        | 21.9                 | 16.7                             | 9 200                         |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>42.7m (140 Ft.) BOOM</b> |                      |                                  |                               |
| 7.3                         | 82.2                 | 44.5                             | 71 600 *                      |
| 8.0                         | 81.3                 | 44.4                             | 68 500 *                      |
| 9.0                         | 79.9                 | 44.2                             | 64 300 *                      |
| 10.0                        | 78.6                 | 44.0                             | 60 100 *                      |
| 11.0                        | 77.2                 | 43.8                             | 54 500 *                      |
| 12.0                        | 75.8                 | 43.6                             | 49 800                        |
| 14.0                        | 73.0                 | 43.0                             | 40 200                        |
| 16.0                        | 70.2                 | 42.3                             | 33 300                        |
| 18.0                        | 67.3                 | 41.5                             | 28 300                        |
| 20.0                        | 64.3                 | 40.6                             | 24 400                        |
| 22.0                        | 61.3                 | 39.5                             | 21 300                        |
| 24.0                        | 58.1                 | 38.3                             | 18 800                        |
| 26.0                        | 54.9                 | 36.9                             | 16 700                        |
| 28.0                        | 51.5                 | 35.4                             | 14 900                        |
| 30.0                        | 48.0                 | 33.7                             | 13 400                        |
| 32.0                        | 44.2                 | 31.7                             | 12 200                        |
| 34.0                        | 40.1                 | 29.4                             | 11 000                        |
| 36.0                        | 35.7                 | 26.8                             | 10 000                        |
| 38.0                        | 30.7                 | 23.7                             | 9 100                         |
| 40.0                        | 24.8                 | 19.8                             | 8 300                         |
| <b>45.7m (150 Ft.) BOOM</b> |                      |                                  |                               |
| 7.3                         | 82.8                 | 47.6                             | 69 100 *                      |
| 8.0                         | 81.9                 | 47.5                             | 66 000 *                      |
| 9.0                         | 80.6                 | 47.3                             | 61 800 *                      |
| 10.0                        | 79.3                 | 47.2                             | 57 900 *                      |
| 11.0                        | 78.1                 | 46.9                             | 53 000 *                      |
| 12.0                        | 76.8                 | 46.7                             | 48 700 *                      |
| 14.0                        | 74.2                 | 46.2                             | 40 100                        |
| 16.0                        | 71.5                 | 45.5                             | 33 200                        |
| 18.0                        | 68.9                 | 44.8                             | 28 200                        |
| 20.0                        | 66.1                 | 43.9                             | 24 300                        |
| 22.0                        | 63.4                 | 43.0                             | 21 200                        |
| 24.0                        | 60.5                 | 41.9                             | 18 700                        |
| 26.0                        | 57.6                 | 40.6                             | 16 600                        |
| 28.0                        | 54.5                 | 39.3                             | 14 800                        |
| 30.0                        | 51.3                 | 37.7                             | 13 300                        |
| 32.0                        | 48.0                 | 36.0                             | 12 100                        |
| 34.0                        | 44.5                 | 34.0                             | 10 900                        |
| 36.0                        | 40.8                 | 31.8                             | 9 900                         |
| 38.0                        | 36.7                 | 29.3                             | 9 000                         |
| 40.0                        | 32.2                 | 26.3                             | 8 200                         |
| 42.0                        | 27.1                 | 22.7                             | 7 500                         |
| 44.0                        | 20.7                 | 18.0                             | 6 800                         |

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**19 960 kg Carbody Counterweight**  
**360 Degree Rating**

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>48.8m (160 Ft.) BOOM</b> |                      |                                  |                               |
| 7.9                         | 82.5                 | 50.6                             | 63 000 *                      |
| 8.0                         | 82.4                 | 50.6                             | 62 700 *                      |
| 9.0                         | 81.2                 | 50.4                             | 58 600 *                      |
| 10.0                        | 80.0                 | 50.3                             | 54 900 *                      |
| 11.0                        | 78.8                 | 50.1                             | 51 600 *                      |
| 12.0                        | 77.6                 | 49.8                             | 47 500 *                      |
| 14.0                        | 75.2                 | 49.3                             | 40 200                        |
| 16.0                        | 72.7                 | 48.7                             | 33 200                        |
| 18.0                        | 70.3                 | 48.0                             | 28 100                        |
| 20.0                        | 67.7                 | 47.3                             | 24 300                        |
| 22.0                        | 65.1                 | 46.4                             | 21 200                        |
| 24.0                        | 62.5                 | 45.4                             | 18 600                        |
| 26.0                        | 59.8                 | 44.2                             | 16 600                        |
| 28.0                        | 57.0                 | 43.0                             | 14 800                        |
| 30.0                        | 54.2                 | 41.6                             | 13 300                        |
| 32.0                        | 51.2                 | 40.0                             | 12 000                        |
| 34.0                        | 48.1                 | 38.3                             | 10 900                        |
| 36.0                        | 44.8                 | 36.3                             | 9 800                         |
| 38.0                        | 41.3                 | 34.2                             | 9 000                         |
| 40.0                        | 37.6                 | 31.7                             | 8 200                         |
| 42.0                        | 33.5                 | 28.8                             | 7 400                         |
| 44.0                        | 28.9                 | 25.4                             | 6 800                         |
| 46.0                        | 23.4                 | 21.3                             | 6 200                         |
| <b>51.8m (170 Ft.) BOOM</b> |                      |                                  |                               |
| 7.9                         | 82.9                 | 53.7                             | 60 500 *                      |
| 8.0                         | 82.8                 | 53.7                             | 60 200 *                      |
| 9.0                         | 81.7                 | 53.5                             | 56 300 *                      |
| 10.0                        | 80.6                 | 53.4                             | 52 600 *                      |
| 11.0                        | 79.5                 | 53.2                             | 49 400 *                      |
| 12.0                        | 78.4                 | 53.0                             | 46 200 *                      |
| 14.0                        | 76.1                 | 52.5                             | 39 600                        |
| 16.0                        | 73.8                 | 51.9                             | 33 200                        |
| 18.0                        | 71.5                 | 51.3                             | 28 000                        |
| 20.0                        | 69.1                 | 50.5                             | 24 200                        |
| 22.0                        | 66.7                 | 49.7                             | 21 000                        |
| 24.0                        | 64.3                 | 48.8                             | 18 500                        |
| 26.0                        | 61.8                 | 47.7                             | 16 500                        |
| 28.0                        | 59.2                 | 46.6                             | 14 700                        |
| 30.0                        | 56.6                 | 45.3                             | 13 200                        |
| 32.0                        | 53.9                 | 43.9                             | 11 900                        |
| 34.0                        | 51.1                 | 42.3                             | 10 800                        |
| 36.0                        | 48.1                 | 40.6                             | 9 700                         |
| 38.0                        | 45.1                 | 38.7                             | 8 800                         |
| 40.0                        | 41.8                 | 36.5                             | 8 100                         |
| 42.0                        | 38.4                 | 34.1                             | 7 300                         |
| 44.0                        | 34.6                 | 31.3                             | 6 700                         |
| 46.0                        | 30.4                 | 28.1                             | 6 100                         |
| 48.0                        | 25.6                 | 24.3                             | 5 600                         |
| 50.0                        | 19.7                 | 19.4                             | 5 000                         |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>54.9m (180 Ft.) BOOM</b> |                      |                                  |                               |
| 8.5                         | 82.7                 | 56.7                             | 55 300 *                      |
| 9.0                         | 82.2                 | 56.6                             | 53 700 *                      |
| 10.0                        | 81.1                 | 56.4                             | 50 400 *                      |
| 11.0                        | 80.1                 | 56.3                             | 47 400 *                      |
| 12.0                        | 79.0                 | 56.1                             | 44 400 *                      |
| 14.0                        | 76.9                 | 55.6                             | 38 700                        |
| 16.0                        | 74.7                 | 55.1                             | 33 200                        |
| 18.0                        | 72.5                 | 54.5                             | 27 900                        |
| 20.0                        | 70.3                 | 53.8                             | 24 000                        |
| 22.0                        | 68.1                 | 53.0                             | 20 900                        |
| 24.0                        | 65.8                 | 52.2                             | 18 400                        |
| 26.0                        | 63.5                 | 51.2                             | 16 300                        |
| 28.0                        | 61.1                 | 50.1                             | 14 500                        |
| 30.0                        | 58.7                 | 48.9                             | 13 000                        |
| 32.0                        | 56.2                 | 47.6                             | 11 700                        |
| 34.0                        | 53.6                 | 46.2                             | 10 600                        |
| 36.0                        | 51.0                 | 44.6                             | 9 600                         |
| 38.0                        | 48.2                 | 42.9                             | 8 700                         |
| 40.0                        | 45.3                 | 41.0                             | 7 900                         |
| 42.0                        | 42.3                 | 38.8                             | 7 200                         |
| 44.0                        | 39.0                 | 36.5                             | 6 500                         |
| 46.0                        | 35.5                 | 33.8                             | 5 900                         |
| 48.0                        | 31.7                 | 30.7                             | 5 400                         |
| 50.0                        | 27.4                 | 27.1                             | 4 900                         |
| 52.0                        | 22.3                 | 22.7                             | 4 400                         |
| <b>57.9m (190 Ft.) BOOM</b> |                      |                                  |                               |
| 9.1                         | 82.5                 | 59.7                             | 52 800 *                      |
| 10.0                        | 81.6                 | 59.5                             | 50 700 *                      |
| 11.0                        | 80.6                 | 59.4                             | 48 200 *                      |
| 12.0                        | 79.6                 | 59.2                             | 44 200 *                      |
| 14.0                        | 77.6                 | 58.8                             | 37 800 *                      |
| 16.0                        | 75.5                 | 58.3                             | 32 700                        |
| 18.0                        | 73.5                 | 57.7                             | 27 700                        |
| 20.0                        | 71.4                 | 57.0                             | 23 800                        |
| 22.0                        | 69.3                 | 56.3                             | 20 700                        |
| 24.0                        | 67.1                 | 55.5                             | 18 200                        |
| 26.0                        | 65.0                 | 54.6                             | 16 100                        |
| 28.0                        | 62.8                 | 53.6                             | 14 300                        |
| 30.0                        | 60.5                 | 52.5                             | 12 800                        |
| 32.0                        | 58.2                 | 51.3                             | 11 500                        |
| 34.0                        | 55.8                 | 49.9                             | 10 400                        |
| 36.0                        | 53.4                 | 48.5                             | 9 300                         |
| 38.0                        | 50.9                 | 46.9                             | 8 500                         |
| 40.0                        | 48.2                 | 45.2                             | 7 700                         |
| 42.0                        | 45.5                 | 43.3                             | 6 900                         |
| 44.0                        | 42.6                 | 41.2                             | 6 300                         |
| 46.0                        | 39.6                 | 38.8                             | 5 700                         |
| 48.0                        | 36.3                 | 36.2                             | 5 100                         |
| 50.0                        | 32.8                 | 33.3                             | 4 600                         |
| 52.0                        | 28.9                 | 29.9                             | 4 200                         |
| 54.0                        | 24.4                 | 25.8                             | 3 800                         |
| 56.0                        | 18.9                 | 20.7                             | 3 300                         |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>61.0m (200 Ft.) BOOM</b> |                      |                                  |                               |
| 9.1                         | 82.8                 | 62.7                             | 49 700 *                      |
| 10.0                        | 82.0                 | 62.6                             | 47 600 *                      |
| 11.0                        | 81.1                 | 62.5                             | 45 200 *                      |
| 12.0                        | 80.1                 | 62.3                             | 42 800 *                      |
| 14.0                        | 78.2                 | 61.9                             | 36 700 *                      |
| 16.0                        | 76.3                 | 61.4                             | 32 000 *                      |
| 18.0                        | 74.3                 | 60.9                             | 27 700                        |
| 20.0                        | 72.4                 | 60.3                             | 23 700                        |
| 22.0                        | 70.4                 | 59.6                             | 20 600                        |
| 24.0                        | 68.4                 | 58.8                             | 18 100                        |
| 26.0                        | 66.3                 | 57.9                             | 16 000                        |
| 28.0                        | 64.2                 | 57.0                             | 14 200                        |
| 30.0                        | 62.1                 | 56.0                             | 12 700                        |
| 32.0                        | 60.0                 | 54.8                             | 11 400                        |
| 34.0                        | 57.8                 | 53.6                             | 10 200                        |
| 36.0                        | 55.5                 | 52.3                             | 9 200                         |
| 38.0                        | 53.2                 | 50.8                             | 8 300                         |
| 40.0                        | 50.8                 | 49.2                             | 7 600                         |
| 42.0                        | 48.3                 | 47.5                             | 6 800                         |
| 44.0                        | 45.7                 | 45.6                             | 6 200                         |
| 46.0                        | 43.0                 | 43.5                             | 5 600                         |
| 48.0                        | 40.1                 | 41.2                             | 5 100                         |
| 50.0                        | 37.1                 | 38.7                             | 4 600                         |
| 52.0                        | 33.8                 | 35.8                             | 4 100                         |
| 54.0                        | 30.2                 | 32.5                             | 3 700                         |
| 56.0                        | 26.1                 | 28.7                             | 3 300                         |
| 58.0                        | 21.4                 | 24.1                             | 2 900                         |

# Liftcrane Boom Capacities

Meets  
ANSI B30.5  
Requirements

## 777 SERIES 2

**Boom No. 78**  
**64 410 kg Crane Counterweight**  
**19 960 kg Carbody Counterweight**  
**360 Degree Rating**

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>64.0m (210 Ft.) BOOM</b> |                      |                                  |                               |
| 9.8                         | 82.6                 | 65.7                             | 47 900 *                      |
| 10.0                        | 82.4                 | 65.7                             | 47 300 *                      |
| 11.0                        | 81.5                 | 65.5                             | 44 400 *                      |
| 12.0                        | 80.6                 | 65.4                             | 41 300 *                      |
| 14.0                        | 78.8                 | 65.0                             | 35 600 *                      |
| 16.0                        | 76.9                 | 64.6                             | 31 300 *                      |
| 18.0                        | 75.1                 | 64.0                             | 27 400                        |
| 20.0                        | 73.2                 | 63.5                             | 23 600                        |
| 22.0                        | 71.3                 | 62.8                             | 20 400                        |
| 24.0                        | 69.4                 | 62.1                             | 17 900                        |
| 26.0                        | 67.5                 | 61.3                             | 15 800                        |
| 28.0                        | 65.5                 | 60.4                             | 14 100                        |
| 30.0                        | 63.6                 | 59.4                             | 12 600                        |
| 32.0                        | 61.5                 | 58.3                             | 11 200                        |
| 34.0                        | 59.5                 | 57.2                             | 10 100                        |
| 36.0                        | 57.4                 | 55.9                             | 9 100                         |
| 38.0                        | 55.2                 | 54.6                             | 8 200                         |
| 40.0                        | 53.0                 | 53.1                             | 7 400                         |
| 42.0                        | 50.7                 | 51.5                             | 6 700                         |
| 44.0                        | 48.3                 | 49.8                             | 6 100                         |
| 46.0                        | 45.8                 | 47.9                             | 5 500                         |
| 48.0                        | 43.3                 | 45.8                             | 4 900                         |
| 50.0                        | 40.6                 | 43.6                             | 4 500                         |
| 52.0                        | 37.7                 | 41.1                             | 4 000                         |
| 54.0                        | 34.6                 | 38.3                             | 3 600                         |
| 56.0                        | 31.3                 | 35.2                             | 3 200                         |
| 58.0                        | 27.6                 | 31.6                             | 2 800                         |
| 60.0                        | 23.4                 | 27.3                             | 2 500                         |
| 62.0                        | 18.3                 | 21.9                             | 2 100                         |
| <b>67.1m (220 Ft.) BOOM</b> |                      |                                  |                               |
| 9.8                         | 83.0                 | 68.8                             | 47 600 *                      |
| 10.0                        | 82.8                 | 68.8                             | 47 100 *                      |
| 11.0                        | 81.9                 | 68.6                             | 43 700 *                      |
| 12.0                        | 81.0                 | 68.5                             | 40 000 *                      |
| 14.0                        | 79.3                 | 68.1                             | 34 400 *                      |
| 16.0                        | 77.5                 | 67.7                             | 30 200 *                      |
| 18.0                        | 75.8                 | 67.2                             | 26 800 *                      |
| 20.0                        | 74.0                 | 66.6                             | 23 500                        |
| 22.0                        | 72.2                 | 66.0                             | 20 300                        |
| 24.0                        | 70.4                 | 65.3                             | 17 800                        |
| 26.0                        | 68.6                 | 64.6                             | 15 700                        |
| 28.0                        | 66.7                 | 63.7                             | 13 900                        |
| 30.0                        | 64.9                 | 62.8                             | 12 400                        |
| 32.0                        | 62.9                 | 61.8                             | 11 100                        |
| 34.0                        | 61.0                 | 60.7                             | 9 900                         |
| 36.0                        | 59.0                 | 59.6                             | 9 000                         |
| 38.0                        | 57.0                 | 58.3                             | 8 100                         |
| 40.0                        | 54.9                 | 56.9                             | 7 200                         |
| 42.0                        | 52.8                 | 55.4                             | 6 500                         |
| 44.0                        | 50.6                 | 53.8                             | 5 900                         |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>67.1m (220 Ft.) BOOM</b> |                      |                                  |                               |
| 46.0                        | 48.3                 | 52.1                             | 5 300                         |
| 48.0                        | 46.0                 | 50.2                             | 4 800                         |
| 50.0                        | 43.5                 | 48.2                             | 4 300                         |
| 52.0                        | 41.0                 | 45.9                             | 3 800                         |
| 54.0                        | 38.3                 | 43.5                             | 3 400                         |
| 56.0                        | 35.4                 | 40.8                             | 3 000                         |
| 58.0                        | 32.3                 | 37.7                             | 2 700                         |
| 60.0                        | 28.9                 | 34.3                             | 2 300                         |
| 62.0                        | 25.1                 | 30.3                             | 2 000                         |
| <b>70.1m (230 Ft.) BOOM</b> |                      |                                  |                               |
| 10.4                        | 82.8                 | 71.8                             | 44 000 *                      |
| 11.0                        | 82.2                 | 71.7                             | 42 600 *                      |
| 12.0                        | 81.4                 | 71.6                             | 39 000 *                      |
| 14.0                        | 79.8                 | 71.2                             | 33 500 *                      |
| 16.0                        | 78.1                 | 70.8                             | 29 300 *                      |
| 18.0                        | 76.4                 | 70.3                             | 26 000 *                      |
| 20.0                        | 74.7                 | 69.8                             | 23 100                        |
| 22.0                        | 73.0                 | 69.2                             | 20 200                        |
| 24.0                        | 71.3                 | 68.6                             | 17 700                        |
| 26.0                        | 69.6                 | 67.8                             | 15 600                        |
| 28.0                        | 67.8                 | 67.0                             | 13 800                        |
| 30.0                        | 66.0                 | 66.2                             | 12 300                        |
| 32.0                        | 64.2                 | 65.2                             | 10 900                        |
| 34.0                        | 62.4                 | 64.2                             | 9 800                         |
| 36.0                        | 60.5                 | 63.1                             | 8 800                         |
| 38.0                        | 58.6                 | 61.9                             | 7 900                         |
| 40.0                        | 56.7                 | 60.6                             | 7 100                         |
| 42.0                        | 54.7                 | 59.2                             | 6 400                         |
| 44.0                        | 52.6                 | 57.7                             | 5 700                         |
| 46.0                        | 50.5                 | 56.1                             | 5 100                         |
| 48.0                        | 48.4                 | 54.4                             | 4 600                         |
| 50.0                        | 46.1                 | 52.5                             | 4 100                         |
| 52.0                        | 43.8                 | 50.5                             | 3 700                         |
| 54.0                        | 41.4                 | 48.3                             | 3 300                         |
| 56.0                        | 38.8                 | 45.9                             | 2 800                         |
| 58.0                        | 36.1                 | 43.2                             | 2 500                         |
| 60.0                        | 33.2                 | 40.3                             | 2 200                         |
| 62.0                        | 30.0                 | 37.0                             | 1 800                         |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>73.2m (240 Ft.) BOOM</b> |                      |                                  |                               |
| 11.0                        | 82.6                 | 74.8                             | 40 100 *                      |
| 12.0                        | 81.8                 | 74.6                             | 38 200 *                      |
| 14.0                        | 80.2                 | 74.3                             | 32 500 *                      |
| 16.0                        | 78.6                 | 73.9                             | 28 400 *                      |
| 18.0                        | 77.0                 | 73.5                             | 25 300 *                      |
| 20.0                        | 75.4                 | 73.0                             | 22 600 *                      |
| 22.0                        | 73.8                 | 72.4                             | 20 100                        |
| 24.0                        | 72.1                 | 71.8                             | 17 500                        |
| 26.0                        | 70.5                 | 71.1                             | 15 400                        |
| 28.0                        | 68.8                 | 70.3                             | 13 600                        |
| 30.0                        | 67.1                 | 69.5                             | 12 100                        |
| 32.0                        | 65.4                 | 68.6                             | 10 800                        |
| 34.0                        | 63.6                 | 67.6                             | 9 700                         |
| 36.0                        | 61.9                 | 66.6                             | 8 700                         |
| 38.0                        | 60.1                 | 65.5                             | 7 700                         |
| 40.0                        | 58.2                 | 64.2                             | 7 000                         |
| 42.0                        | 56.4                 | 62.9                             | 6 300                         |
| 44.0                        | 54.4                 | 61.5                             | 5 600                         |
| 46.0                        | 52.5                 | 60.0                             | 5 000                         |
| 48.0                        | 50.5                 | 58.4                             | 4 500                         |
| 50.0                        | 48.4                 | 56.7                             | 4 000                         |
| 52.0                        | 46.3                 | 54.8                             | 3 500                         |
| 54.0                        | 44.0                 | 52.8                             | 3 100                         |
| 56.0                        | 41.7                 | 50.6                             | 2 700                         |
| 58.0                        | 39.3                 | 48.2                             | 2 300                         |
| 60.0                        | 36.7                 | 45.6                             | 2 000                         |

# Liftcrane Boom Capacities

Meets  
ANSI B30.5  
Requirements

## 777 SERIES 2

**Boom No. 78**  
**64 410 kg Crane Counterweight**  
**19 960 kg Carbody Counterweight**  
**360 Degree Rating**

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>76.2m (250 Ft.) BOOM</b> |                      |                                  |                               |
| 11.6                        | 82.4                 | 77.8                             | 38 500 *                      |
| 12.0                        | 82.1                 | 77.7                             | 37 100 *                      |
| 14.0                        | 80.6                 | 77.4                             | 31 600 *                      |
| 16.0                        | 79.1                 | 77.0                             | 27 600 *                      |
| 18.0                        | 77.5                 | 76.6                             | 24 500 *                      |
| 20.0                        | 76.0                 | 76.1                             | 21 900 *                      |
| 22.0                        | 74.4                 | 75.6                             | 19 600                        |
| 24.0                        | 72.8                 | 75.0                             | 17 400                        |
| 26.0                        | 71.3                 | 74.3                             | 15 200                        |
| 28.0                        | 69.7                 | 73.6                             | 13 500                        |
| 30.0                        | 68.0                 | 72.8                             | 12 000                        |
| 32.0                        | 66.4                 | 72.0                             | 10 700                        |
| 34.0                        | 64.8                 | 71.0                             | 9 500                         |
| 36.0                        | 63.1                 | 70.0                             | 8 500                         |
| 38.0                        | 61.4                 | 69.0                             | 7 600                         |
| 40.0                        | 59.6                 | 67.8                             | 6 800                         |
| 42.0                        | 57.9                 | 66.6                             | 6 100                         |
| 44.0                        | 56.1                 | 65.3                             | 5 500                         |
| 46.0                        | 54.2                 | 63.9                             | 4 900                         |
| 48.0                        | 52.3                 | 62.3                             | 4 300                         |
| 50.0                        | 50.4                 | 60.7                             | 3 800                         |
| 52.0                        | 48.4                 | 59.0                             | 3 400                         |
| 54.0                        | 46.4                 | 57.1                             | 2 900                         |
| 56.0                        | 44.2                 | 55.1                             | 2 600                         |
| 58.0                        | 42.0                 | 53.0                             | 2 200                         |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>79.2m (260 Ft.) BOOM</b> |                      |                                  |                               |
| 12.2                        | 82.3                 | 80.8                             | 35 000 *                      |
| 14.0                        | 81.0                 | 80.5                             | 30 500 *                      |
| 16.0                        | 79.5                 | 80.1                             | 26 500 *                      |
| 18.0                        | 78.0                 | 79.7                             | 23 500 *                      |
| 20.0                        | 76.5                 | 79.3                             | 21 100 *                      |
| 22.0                        | 75.0                 | 78.7                             | 18 900 *                      |
| 24.0                        | 73.5                 | 78.2                             | 17 000 *                      |
| 26.0                        | 72.0                 | 77.5                             | 15 100                        |
| 28.0                        | 70.5                 | 76.8                             | 13 300                        |
| 30.0                        | 68.9                 | 76.1                             | 11 800                        |
| 32.0                        | 67.4                 | 75.3                             | 10 500                        |
| 34.0                        | 65.8                 | 74.4                             | 9 400                         |
| 36.0                        | 64.2                 | 73.4                             | 8 300                         |
| 38.0                        | 62.6                 | 72.4                             | 7 400                         |
| 40.0                        | 60.9                 | 71.3                             | 6 700                         |
| 42.0                        | 59.3                 | 70.2                             | 5 900                         |
| 44.0                        | 57.5                 | 68.9                             | 5 300                         |
| 46.0                        | 55.8                 | 67.6                             | 4 700                         |
| 48.0                        | 54.0                 | 66.2                             | 4 100                         |
| 50.0                        | 52.2                 | 64.6                             | 3 600                         |
| 52.0                        | 50.4                 | 63.0                             | 3 200                         |
| 54.0                        | 48.4                 | 61.3                             | 2 800                         |
| 56.0                        | 46.5                 | 59.4                             | 2 300 *                       |

| Oper.<br>Radius<br>Meters   | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Meters | Boom<br>Capacity<br>Kilograms |
|-----------------------------|----------------------|----------------------------------|-------------------------------|
| <b>82.3m (270 Ft.) BOOM</b> |                      |                                  |                               |
| 13.7                        | 81.5                 | 83.6                             | 30 200 *                      |
| 14.0                        | 81.3                 | 83.6                             | 29 600 *                      |
| 16.0                        | 79.9                 | 83.2                             | 25 600 *                      |
| 18.0                        | 78.5                 | 82.8                             | 22 700 *                      |
| 20.0                        | 77.0                 | 82.4                             | 20 300 *                      |
| 22.0                        | 75.6                 | 81.9                             | 18 200 *                      |
| 24.0                        | 74.2                 | 81.3                             | 16 400 *                      |
| 26.0                        | 72.7                 | 80.7                             | 14 800                        |
| 28.0                        | 71.2                 | 80.1                             | 13 100                        |
| 30.0                        | 69.8                 | 79.4                             | 11 600                        |
| 32.0                        | 68.3                 | 78.6                             | 10 300                        |
| 34.0                        | 66.7                 | 77.7                             | 9 200                         |
| 36.0                        | 65.2                 | 76.8                             | 8 200                         |
| 38.0                        | 63.7                 | 75.9                             | 7 300                         |
| 40.0                        | 62.1                 | 74.8                             | 6 500                         |
| 42.0                        | 60.5                 | 73.7                             | 5 700                         |
| 44.0                        | 58.9                 | 72.5                             | 5 100                         |
| 46.0                        | 57.2                 | 71.3                             | 4 500                         |
| 48.0                        | 55.6                 | 69.9                             | 4 000                         |
| 50.0                        | 53.9                 | 68.5                             | 3 500                         |
| 52.0                        | 52.1                 | 67.0                             | 2 900 *                       |
| 54.0                        | 50.3                 | 65.3                             | 2 500 *                       |
| 56.0                        | 48.5                 | 63.6                             | 2 000 *                       |