

# Liftcrane Boom Capacities

**Boom No. 111 With Open Throat Top**  
**49,700 Lb. Crane Counterweight**  
**8,000 Lb. Carbody Counterweight**  
**19 Ft. 4 in. Crawlers Extended**  
**360 Degree Rating**

Meets  
 ANSI B30.5  
 Requirements

## 111 SERIES B

**LIFTING CAPACITIES:** 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 20,000 Lbs. 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 with crawlers fully extended (16 Ft. 1 in.) and gantry up. Refer to boom rigging **No. 911959** or **No. 912877** and Wire Rope Specification chart **No. 9144-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. 9142-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 19 Ft. 4 in. extendible crawlers, 35-1/2 in. treads, 15 Ft. 6 in. retractable gantry, 10 part boom hoist reeving, two 1-1/4 in. boom pendants, 1st crane counterweight = 28,500 Lbs., 2nd crane counterweight = 5,700 Lbs., 3rd crane counterweight = 15,500 Lbs. and carbody counterweight = 8,000 Lbs.

### Deduct From Capacities When Jib Is Attached

| Jib Length | Jib No. 111 |
|------------|-------------|
| 30 Ft.     | 1,600 Lbs.  |
| 40 Ft.     | 2,000 Lbs.  |
| 50 Ft.     | 2,500 Lbs.  |
| 60 Ft.     | 3,000 Lbs.  |

### Maximum Boom and Jib Lengths Lifted Unassisted

| Over End of<br>Blocked Crawlers                      |             | Over Side of<br>Extended Crawlers |             |
|------------------------------------------------------|-------------|-----------------------------------|-------------|
| Boom Length                                          | Jib No. 111 | Boom Length                       | Jib No. 111 |
| 190 Ft.                                              | ---         | 190 Ft.                           | ---         |
| 180 Ft.                                              | 50 Ft.      | 180 Ft.                           | ---         |
| 170 Ft.                                              | 60 Ft.      | 170 Ft.                           | 40 Ft.      |
|                                                      |             | 160 Ft.                           | 60 Ft.      |
| Load block, hook and weight ball on ground at start. |             |                                   |             |

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



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**49,700 Lb. Crane Counterweight**  
**8,000 Lb. Carbody Counterweight**  
**19 Ft. 4 in. Crawlers Extended**  
**360 Degree Rating**

**Meets**  
**ANSI B30.5**  
**Requirements**

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>40 Ft. BOOM</b>    |                      |                                |                            |
| 10                    | 81.4                 | 45.0                           | 160,000 *                  |
| 11                    | 79.9                 | 44.9                           | 150,000 *                  |
| 12                    | 78.4                 | 44.6                           | 150,000 *                  |
| 13                    | 77.0                 | 44.4                           | 150,000 *                  |
| 14                    | 75.5                 | 44.1                           | 150,000 *                  |
| 15                    | 74.0                 | 43.8                           | 139,500                    |
| 16                    | 72.5                 | 43.5                           | 124,200                    |
| 17                    | 71.0                 | 43.2                           | 111,900                    |
| 18                    | 69.4                 | 42.8                           | 101,700                    |
| 19                    | 67.9                 | 42.4                           | 93,300                     |
| 20                    | 66.3                 | 41.9                           | 86,000                     |
| 22                    | 63.1                 | 40.9                           | 74,500                     |
| 24                    | 59.8                 | 39.8                           | 65,500                     |
| 26                    | 56.4                 | 38.5                           | 58,500                     |
| 28                    | 52.8                 | 37.0                           | 52,800                     |
| 30                    | 49.1                 | 35.3                           | 48,000                     |
| 32                    | 45.1                 | 33.4                           | 44,000                     |
| 34                    | 40.8                 | 31.1                           | 40,600                     |
| 36                    | 36.0                 | 28.5                           | 37,700                     |
| 38                    | 30.7                 | 25.3                           | 35,100                     |
| 40                    | 24.2                 | 21.2                           | 32,800                     |
| <b>50 Ft. BOOM</b>    |                      |                                |                            |
| 11                    | 81.9                 | 55.0                           | 150,000 *                  |
| 12                    | 80.8                 | 54.8                           | 150,000 *                  |
| 13                    | 79.6                 | 54.7                           | 150,000 *                  |
| 14                    | 78.4                 | 54.4                           | 150,000 *                  |
| 15                    | 77.3                 | 54.2                           | 139,600                    |
| 16                    | 76.1                 | 54.0                           | 124,200                    |
| 17                    | 74.9                 | 53.7                           | 111,900                    |
| 18                    | 73.7                 | 53.4                           | 101,700                    |
| 19                    | 72.5                 | 53.1                           | 93,200                     |
| 20                    | 71.3                 | 52.7                           | 86,000                     |
| 22                    | 68.8                 | 51.9                           | 74,400                     |
| 24                    | 66.3                 | 51.1                           | 65,500                     |
| 26                    | 63.8                 | 50.1                           | 58,400                     |
| 28                    | 61.2                 | 49.0                           | 52,700                     |
| 30                    | 58.5                 | 47.8                           | 47,900                     |
| 32                    | 55.7                 | 46.5                           | 43,900                     |
| 34                    | 52.9                 | 45.0                           | 40,500                     |
| 36                    | 49.9                 | 43.3                           | 37,500                     |
| 38                    | 46.8                 | 41.5                           | 35,000                     |
| 40                    | 43.5                 | 39.4                           | 32,700                     |
| 45                    | 34.2                 | 33.0                           | 28,100                     |
| 50                    | 21.5                 | 23.2                           | 24,500                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>60 Ft. BOOM</b>    |                      |                                |                            |
| 13                    | 81.4                 | 64.8                           | 150,000 *                  |
| 14                    | 80.4                 | 64.6                           | 150,000 *                  |
| 15                    | 79.4                 | 64.5                           | 139,500                    |
| 16                    | 78.4                 | 64.2                           | 124,200                    |
| 17                    | 77.5                 | 64.0                           | 111,900                    |
| 18                    | 76.5                 | 63.8                           | 101,600                    |
| 19                    | 75.5                 | 63.5                           | 93,200                     |
| 20                    | 74.5                 | 63.2                           | 85,900                     |
| 22                    | 72.5                 | 62.6                           | 74,300                     |
| 24                    | 70.5                 | 61.9                           | 65,300                     |
| 26                    | 68.4                 | 61.1                           | 58,300                     |
| 28                    | 66.3                 | 60.3                           | 52,500                     |
| 30                    | 64.2                 | 59.3                           | 47,800                     |
| 32                    | 62.1                 | 58.2                           | 43,700                     |
| 34                    | 59.9                 | 57.1                           | 40,300                     |
| 36                    | 57.6                 | 55.9                           | 37,400                     |
| 38                    | 55.3                 | 54.5                           | 34,800                     |
| 40                    | 52.9                 | 53.0                           | 32,500                     |
| 45                    | 46.6                 | 48.6                           | 27,900                     |
| 50                    | 39.5                 | 43.1                           | 24,300                     |
| 55                    | 31.0                 | 35.9                           | 21,500                     |
| 60                    | 19.5                 | 24.9                           | 19,200                     |
| <b>70 Ft. BOOM</b>    |                      |                                |                            |
| 14                    | 81.8                 | 74.8                           | 149,300 *                  |
| 15                    | 81.0                 | 74.6                           | 137,900 *                  |
| 16                    | 80.1                 | 74.4                           | 124,100                    |
| 17                    | 79.3                 | 74.2                           | 111,800                    |
| 18                    | 78.4                 | 74.0                           | 101,500                    |
| 19                    | 77.6                 | 73.8                           | 93,100                     |
| 20                    | 76.8                 | 73.6                           | 85,800                     |
| 22                    | 75.1                 | 73.0                           | 74,200                     |
| 24                    | 73.4                 | 72.5                           | 65,200                     |
| 26                    | 71.6                 | 71.8                           | 58,200                     |
| 28                    | 69.9                 | 71.1                           | 52,400                     |
| 30                    | 68.1                 | 70.3                           | 47,600                     |
| 32                    | 66.4                 | 69.4                           | 43,600                     |
| 34                    | 64.5                 | 68.5                           | 40,200                     |
| 36                    | 62.7                 | 67.5                           | 37,300                     |
| 38                    | 60.8                 | 66.3                           | 34,700                     |
| 40                    | 58.9                 | 65.2                           | 32,400                     |
| 45                    | 54.0                 | 61.8                           | 27,800                     |
| 50                    | 48.7                 | 57.7                           | 24,200                     |
| 55                    | 42.9                 | 52.7                           | 21,300                     |
| 60                    | 36.4                 | 46.5                           | 19,100                     |
| 65                    | 28.6                 | 38.4                           | 17,200                     |
| 70                    | 18.0                 | 26.5                           | 15,600                     |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>80 Ft. BOOM</b>    |                      |                                |                            |
| 16                    | 81.4                 | 84.6                           | 122,600 *                  |
| 17                    | 80.6                 | 84.4                           | 111,700                    |
| 18                    | 79.9                 | 84.2                           | 101,400                    |
| 19                    | 79.2                 | 84.0                           | 92,900                     |
| 20                    | 78.5                 | 83.8                           | 85,700                     |
| 22                    | 77.0                 | 83.4                           | 74,100                     |
| 24                    | 75.5                 | 82.9                           | 65,100                     |
| 26                    | 74.0                 | 82.3                           | 58,000                     |
| 28                    | 72.5                 | 81.7                           | 52,200                     |
| 30                    | 71.0                 | 81.0                           | 47,400                     |
| 32                    | 69.5                 | 80.3                           | 43,400                     |
| 34                    | 67.9                 | 79.4                           | 40,000                     |
| 36                    | 66.4                 | 78.6                           | 37,100                     |
| 38                    | 64.8                 | 77.6                           | 34,500                     |
| 40                    | 63.2                 | 76.6                           | 32,200                     |
| 45                    | 59.1                 | 73.8                           | 27,600                     |
| 50                    | 54.8                 | 70.5                           | 24,000                     |
| 55                    | 50.2                 | 66.6                           | 21,100                     |
| 60                    | 45.3                 | 61.9                           | 18,900                     |
| 65                    | 40.0                 | 56.4                           | 17,000                     |
| 70                    | 33.9                 | 49.6                           | 15,400                     |
| 75                    | 26.7                 | 40.8                           | 14,000                     |
| 80                    | 16.8                 | 27.9                           | 12,800                     |
| <b>90 Ft. BOOM</b>    |                      |                                |                            |
| 17                    | 81.7                 | 94.6                           | 111,600 *                  |
| 18                    | 81.0                 | 94.4                           | 101,300                    |
| 19                    | 80.4                 | 94.2                           | 92,900                     |
| 20                    | 79.8                 | 94.0                           | 85,600                     |
| 22                    | 78.5                 | 93.6                           | 74,000                     |
| 24                    | 77.1                 | 93.2                           | 65,000                     |
| 26                    | 75.8                 | 92.7                           | 57,900                     |
| 28                    | 74.5                 | 92.1                           | 52,100                     |
| 30                    | 73.2                 | 91.5                           | 47,300                     |
| 32                    | 71.8                 | 90.9                           | 43,300                     |
| 34                    | 70.5                 | 90.2                           | 39,900                     |
| 36                    | 69.1                 | 89.4                           | 37,000                     |
| 38                    | 67.8                 | 88.6                           | 34,400                     |
| 40                    | 66.4                 | 87.7                           | 32,100                     |
| 45                    | 62.8                 | 85.3                           | 27,400                     |
| 50                    | 59.2                 | 82.5                           | 23,900                     |
| 55                    | 55.4                 | 79.2                           | 21,000                     |
| 60                    | 51.4                 | 75.4                           | 18,800                     |
| 65                    | 47.1                 | 71.0                           | 16,900                     |
| 70                    | 42.6                 | 65.9                           | 15,300                     |
| 75                    | 37.6                 | 59.9                           | 13,900                     |
| 80                    | 31.9                 | 52.5                           | 12,700                     |
| 85                    | 25.1                 | 43.1                           | 11,700                     |
| 90                    | 15.8                 | 29.3                           | 10,800                     |



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**8,000 Lb. Carbody Counterweight**  
**19 Ft. 4 in. Crawlers Extended**  
**360 Degree Rating**

Meets  
ANSI B30.5  
Requirements

## 111 SERIES B

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>100 Ft. BOOM</b>   |                      |                                |                            |
| 18                    | 81.9                 | 104.5                          | 101,100 *                  |
| 19                    | 81.4                 | 104.4                          | 92,700                     |
| 20                    | 80.8                 | 104.2                          | 85,400                     |
| 22                    | 79.6                 | 103.8                          | 73,800                     |
| 24                    | 78.5                 | 103.4                          | 64,800                     |
| 26                    | 77.3                 | 103.0                          | 57,800                     |
| 28                    | 76.1                 | 102.5                          | 52,000                     |
| 30                    | 74.9                 | 102.0                          | 47,200                     |
| 32                    | 73.7                 | 101.4                          | 43,100                     |
| 34                    | 72.5                 | 100.8                          | 39,700                     |
| 36                    | 71.3                 | 100.1                          | 36,800                     |
| 38                    | 70.1                 | 99.4                           | 34,200                     |
| 40                    | 68.9                 | 98.6                           | 31,900                     |
| 45                    | 65.7                 | 96.5                           | 27,300                     |
| 50                    | 62.6                 | 94.0                           | 23,700                     |
| 55                    | 59.3                 | 91.1                           | 20,800                     |
| 60                    | 55.8                 | 87.9                           | 18,600                     |
| 65                    | 52.3                 | 84.2                           | 16,700                     |
| 70                    | 48.5                 | 80.0                           | 15,100                     |
| 75                    | 44.6                 | 75.2                           | 13,700                     |
| 80                    | 40.3                 | 69.6                           | 12,500                     |
| 85                    | 35.6                 | 63.1                           | 11,500                     |
| 90                    | 30.2                 | 55.2                           | 10,600                     |
| 95                    | 23.8                 | 45.2                           | 9,800                      |
| 100                   | 14.9                 | 30.6                           | 9,100                      |
| <b>110 Ft. BOOM</b>   |                      |                                |                            |
| 20                    | 81.6                 | 114.3                          | 85,300                     |
| 22                    | 80.6                 | 114.0                          | 73,700                     |
| 24                    | 79.5                 | 113.6                          | 64,600                     |
| 26                    | 78.5                 | 113.2                          | 57,600                     |
| 28                    | 77.4                 | 112.8                          | 51,800                     |
| 30                    | 76.3                 | 112.3                          | 47,000                     |
| 32                    | 75.2                 | 111.8                          | 42,900                     |
| 34                    | 74.2                 | 111.2                          | 39,500                     |
| 36                    | 73.1                 | 110.6                          | 36,600                     |
| 38                    | 72.0                 | 110.0                          | 34,000                     |
| 40                    | 70.9                 | 109.3                          | 31,700                     |
| 45                    | 68.1                 | 107.4                          | 27,100                     |
| 50                    | 65.2                 | 105.2                          | 23,500                     |
| 55                    | 62.3                 | 102.7                          | 20,600                     |
| 60                    | 59.3                 | 99.8                           | 18,400                     |
| 65                    | 56.2                 | 96.6                           | 16,500                     |
| 70                    | 53.0                 | 93.0                           | 14,900                     |
| 75                    | 49.7                 | 88.9                           | 13,500                     |
| 80                    | 46.1                 | 84.3                           | 12,300                     |
| 85                    | 42.4                 | 79.1                           | 11,300                     |
| 90                    | 38.3                 | 73.2                           | 10,400                     |
| 95                    | 33.8                 | 66.2                           | 9,500                      |
| 100                   | 28.8                 | 57.8                           | 8,800                      |
| 105                   | 22.7                 | 47.2                           | 8,200                      |
| 110                   | 14.2                 | 31.8                           | 7,600                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>120 Ft. BOOM</b>   |                      |                                |                            |
| 22                    | 81.4                 | 124.1                          | 73,500                     |
| 24                    | 80.4                 | 123.8                          | 64,500                     |
| 26                    | 79.4                 | 123.4                          | 57,500                     |
| 28                    | 78.5                 | 123.0                          | 51,600                     |
| 30                    | 77.5                 | 122.6                          | 46,800                     |
| 32                    | 76.5                 | 122.1                          | 42,800                     |
| 34                    | 75.5                 | 121.6                          | 39,300                     |
| 36                    | 74.5                 | 121.0                          | 36,500                     |
| 38                    | 73.5                 | 120.5                          | 33,900                     |
| 40                    | 72.5                 | 119.8                          | 31,600                     |
| 45                    | 70.0                 | 118.1                          | 26,900                     |
| 50                    | 67.4                 | 116.1                          | 23,300                     |
| 55                    | 64.8                 | 113.9                          | 20,500                     |
| 60                    | 62.1                 | 111.3                          | 18,300                     |
| 65                    | 59.4                 | 108.5                          | 16,400                     |
| 70                    | 56.6                 | 105.3                          | 14,700                     |
| 75                    | 53.6                 | 101.8                          | 13,300                     |
| 80                    | 50.6                 | 97.8                           | 12,200                     |
| 85                    | 47.4                 | 93.4                           | 11,100                     |
| 90                    | 44.0                 | 88.5                           | 10,200                     |
| 95                    | 40.5                 | 82.9                           | 9,400                      |
| 100                   | 36.6                 | 76.5                           | 8,700                      |
| 105                   | 32.3                 | 69.1                           | 8,000                      |
| 110                   | 27.5                 | 60.3                           | 7,400                      |
| 115                   | 21.7                 | 49.1                           | 6,900                      |
| 120                   | 13.6                 | 33.0                           | 6,400                      |
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 81.1                 | 133.9                          | 64,300                     |
| 26                    | 80.3                 | 133.6                          | 57,300                     |
| 28                    | 79.4                 | 133.2                          | 51,500                     |
| 30                    | 78.5                 | 132.8                          | 46,600                     |
| 32                    | 77.6                 | 132.4                          | 42,600                     |
| 34                    | 76.6                 | 131.9                          | 39,300                     |
| 36                    | 75.7                 | 131.4                          | 36,300                     |
| 38                    | 74.8                 | 130.9                          | 33,700                     |
| 40                    | 73.9                 | 130.3                          | 31,400                     |
| 45                    | 71.6                 | 128.7                          | 26,700                     |
| 50                    | 69.3                 | 126.9                          | 23,100                     |
| 55                    | 66.9                 | 124.8                          | 20,300                     |
| 60                    | 64.4                 | 122.5                          | 18,100                     |
| 65                    | 62.0                 | 120.0                          | 16,200                     |
| 70                    | 59.4                 | 117.1                          | 14,500                     |
| 75                    | 56.8                 | 114.0                          | 13,200                     |
| 80                    | 54.1                 | 110.5                          | 12,000                     |
| 85                    | 51.4                 | 106.6                          | 10,900                     |
| 90                    | 48.5                 | 102.4                          | 10,000                     |
| 95                    | 45.4                 | 97.6                           | 9,200                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>130 Ft. BOOM</b>   |                      |                                |                            |
| 100                   | 42.2                 | 92.4                           | 8,500                      |
| 105                   | 38.8                 | 86.4                           | 7,800                      |
| 110                   | 35.1                 | 79.7                           | 7,200                      |
| 115                   | 31.0                 | 71.9                           | 6,700                      |
| 120                   | 26.4                 | 62.6                           | 6,200                      |
| 125                   | 20.8                 | 51.0                           | 5,800                      |
| 130                   | 13.0                 | 34.2                           | 5,400                      |
| <b>140 Ft. BOOM</b>   |                      |                                |                            |
| 24                    | 81.8                 | 144.1                          | 64,100                     |
| 26                    | 81.0                 | 143.8                          | 57,100                     |
| 28                    | 80.1                 | 143.4                          | 51,300                     |
| 30                    | 79.3                 | 143.0                          | 46,500                     |
| 32                    | 78.5                 | 142.6                          | 42,400                     |
| 34                    | 77.6                 | 142.2                          | 39,100                     |
| 36                    | 76.8                 | 141.7                          | 36,100                     |
| 38                    | 75.9                 | 141.2                          | 33,500                     |
| 40                    | 75.1                 | 140.7                          | 31,200                     |
| 45                    | 73.0                 | 139.2                          | 26,500                     |
| 50                    | 70.8                 | 137.6                          | 22,900                     |
| 55                    | 68.6                 | 135.7                          | 20,000                     |
| 60                    | 66.4                 | 133.6                          | 17,900                     |
| 65                    | 64.1                 | 131.2                          | 15,900                     |
| 70                    | 61.8                 | 128.6                          | 14,300                     |
| 75                    | 59.5                 | 125.8                          | 12,900                     |
| 80                    | 57.1                 | 122.7                          | 11,700                     |
| 85                    | 54.6                 | 119.2                          | 10,700                     |
| 90                    | 52.0                 | 115.4                          | 9,800                      |
| 95                    | 49.4                 | 111.3                          | 9,000                      |
| 100                   | 46.6                 | 106.7                          | 8,200                      |
| 105                   | 43.7                 | 101.7                          | 7,600                      |
| 110                   | 40.6                 | 96.1                           | 7,000                      |
| 115                   | 37.3                 | 89.9                           | 6,500                      |
| 120                   | 33.8                 | 82.8                           | 6,000                      |
| 125                   | 29.9                 | 74.6                           | 5,500                      |
| 130                   | 25.4                 | 64.9                           | 5,100                      |
| 135                   | 20.0                 | 52.7                           | 4,800                      |
| 140                   | 12.6                 | 35.2                           | 4,400                      |



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**49,700 Lb. Crane Counterweight**  
**8,000 Lb. Carbody Counterweight**  
**19 Ft. 4 in. Crawlers Extended**  
**360 Degree Rating**

Meets  
ANSI B30.5  
Requirements

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>150 Ft. BOOM</b>   |                      |                                |                            |
| 26                    | 81.6                 | 153.9                          | 55,100 *                   |
| 28                    | 80.8                 | 153.6                          | 51,100                     |
| 30                    | 80.0                 | 153.2                          | 46,300                     |
| 32                    | 79.2                 | 152.8                          | 42,200                     |
| 34                    | 78.5                 | 152.4                          | 38,900                     |
| 36                    | 77.7                 | 152.0                          | 35,900                     |
| 38                    | 76.9                 | 151.5                          | 33,300                     |
| 40                    | 76.1                 | 151.0                          | 31,000                     |
| 45                    | 74.1                 | 149.7                          | 26,300                     |
| 50                    | 72.1                 | 148.1                          | 22,700                     |
| 55                    | 70.1                 | 146.4                          | 19,800                     |
| 60                    | 68.1                 | 144.4                          | 17,700                     |
| 65                    | 66.0                 | 142.3                          | 15,800                     |
| 70                    | 63.9                 | 139.9                          | 14,200                     |
| 75                    | 61.7                 | 137.3                          | 12,800                     |
| 80                    | 59.5                 | 134.5                          | 11,600                     |
| 85                    | 57.3                 | 131.3                          | 10,500                     |
| 90                    | 54.9                 | 127.9                          | 9,600                      |
| 95                    | 52.6                 | 124.2                          | 8,800                      |
| 100                   | 50.1                 | 120.2                          | 8,100                      |
| 105                   | 47.6                 | 115.8                          | 7,400                      |
| 110                   | 44.9                 | 110.9                          | 6,800                      |
| 115                   | 42.1                 | 105.6                          | 6,300                      |
| 120                   | 39.2                 | 99.7                           | 5,800                      |
| 125                   | 36.0                 | 93.1                           | 5,400                      |
| 130                   | 32.6                 | 85.7                           | 5,000                      |
| 135                   | 28.8                 | 77.2                           | 4,600                      |
| 140                   | 24.5                 | 67.1                           | 4,200                      |
| 145                   | 19.3                 | 54.5                           | 3,900                      |
| 150                   | 12.1                 | 36.3                           | 3,500 *                    |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>160 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 81.4                 | 163.7                          | 46,900 *                   |
| 30                    | 80.6                 | 163.4                          | 46,100                     |
| 32                    | 79.9                 | 163.0                          | 42,000                     |
| 34                    | 79.2                 | 162.6                          | 38,700                     |
| 36                    | 78.5                 | 162.2                          | 35,700                     |
| 38                    | 77.7                 | 161.8                          | 33,100                     |
| 40                    | 77.0                 | 161.3                          | 30,800                     |
| 45                    | 75.1                 | 160.1                          | 26,100                     |
| 50                    | 73.3                 | 158.6                          | 22,500                     |
| 55                    | 71.4                 | 157.0                          | 19,600                     |
| 60                    | 69.5                 | 155.2                          | 17,500                     |
| 65                    | 67.6                 | 153.2                          | 15,600                     |
| 70                    | 65.6                 | 151.0                          | 13,900                     |
| 75                    | 63.6                 | 148.6                          | 12,600                     |
| 80                    | 61.6                 | 146.0                          | 11,400                     |
| 85                    | 59.5                 | 143.1                          | 10,300                     |
| 90                    | 57.4                 | 140.0                          | 9,400                      |
| 95                    | 55.3                 | 136.6                          | 8,600                      |
| 100                   | 53.1                 | 133.0                          | 7,900                      |
| 105                   | 50.8                 | 129.0                          | 7,200                      |
| 110                   | 48.4                 | 124.7                          | 6,600                      |
| 115                   | 46.0                 | 120.1                          | 6,100                      |
| 120                   | 43.4                 | 114.9                          | 5,600                      |
| 125                   | 40.7                 | 109.3                          | 5,200                      |
| 130                   | 37.9                 | 103.2                          | 4,700                      |
| 135                   | 34.8                 | 96.3                           | 4,400                      |
| 140                   | 31.5                 | 88.6                           | 4,000                      |
| 145                   | 27.9                 | 79.7                           | 3,700                      |
| 150                   | 23.7                 | 69.2                           | 3,400                      |
| 155                   | 18.7                 | 56.1                           | 3,100                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>170 Ft. BOOM</b>   |                      |                                |                            |
| 28                    | 81.9                 | 173.8                          | 40,800 *                   |
| 30                    | 81.2                 | 173.5                          | 40,400 *                   |
| 32                    | 80.5                 | 173.2                          | 40,000 *                   |
| 34                    | 79.8                 | 172.8                          | 38,600                     |
| 36                    | 79.1                 | 172.4                          | 35,500                     |
| 38                    | 78.5                 | 172.0                          | 32,900                     |
| 40                    | 77.8                 | 171.6                          | 30,600                     |
| 45                    | 76.0                 | 170.4                          | 25,900                     |
| 50                    | 74.3                 | 169.0                          | 22,300                     |
| 55                    | 72.5                 | 167.5                          | 19,400                     |
| 60                    | 70.8                 | 165.8                          | 17,300                     |
| 65                    | 69.0                 | 164.0                          | 15,400                     |
| 70                    | 67.1                 | 161.9                          | 13,700                     |
| 75                    | 65.3                 | 159.7                          | 12,300                     |
| 80                    | 63.4                 | 157.3                          | 11,100                     |
| 85                    | 61.5                 | 154.6                          | 10,100                     |
| 90                    | 59.6                 | 151.8                          | 9,200                      |
| 95                    | 57.6                 | 148.7                          | 8,400                      |
| 100                   | 55.6                 | 145.4                          | 7,600                      |
| 105                   | 53.5                 | 141.8                          | 7,000                      |
| 110                   | 51.3                 | 137.9                          | 6,400                      |
| 115                   | 49.1                 | 133.7                          | 5,900                      |
| 120                   | 46.9                 | 129.1                          | 5,400                      |
| 125                   | 44.5                 | 124.2                          | 4,900                      |
| 130                   | 42.0                 | 118.8                          | 4,500                      |
| 135                   | 39.4                 | 113.0                          | 4,100                      |
| 140                   | 36.7                 | 106.5                          | 3,800                      |
| 145                   | 33.7                 | 99.3                           | 3,500                      |
| 150                   | 30.5                 | 91.3                           | 3,200                      |

# Liftcrane Boom Capacities

**Boom No. 111 With Open Throat Top**  
**49,700 Lb. Crane Counterweight**  
**8,000 Lb. Carbody Counterweight**  
**19 Ft. 4 in. Crawlers Extended**  
**360 Degree Rating**

Meets  
ANSI B30.5  
Requirements

## 111 SERIES B

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>180 Ft. BOOM</b>   |                      |                                |                            |
| 30                    | 81.7                 | 183.6                          | 35,000 *                   |
| 32                    | 81.0                 | 183.3                          | 34,700 *                   |
| 34                    | 80.4                 | 183.0                          | 34,200 *                   |
| 36                    | 79.8                 | 182.6                          | 33,700 *                   |
| 38                    | 79.1                 | 182.2                          | 32,500 *                   |
| 40                    | 78.5                 | 181.8                          | 30,400                     |
| 45                    | 76.8                 | 180.7                          | 25,700                     |
| 50                    | 75.2                 | 179.4                          | 22,100                     |
| 55                    | 73.5                 | 178.0                          | 19,500                     |
| 60                    | 71.9                 | 176.4                          | 17,100                     |
| 65                    | 70.2                 | 174.7                          | 15,200                     |
| 70                    | 68.5                 | 172.8                          | 13,500                     |
| 75                    | 66.7                 | 170.7                          | 12,200                     |
| 80                    | 65.0                 | 168.4                          | 11,000                     |
| 85                    | 63.2                 | 165.9                          | 9,900                      |
| 90                    | 61.4                 | 163.3                          | 9,000                      |
| 95                    | 59.6                 | 160.4                          | 8,200                      |
| 100                   | 57.7                 | 157.4                          | 7,500                      |
| 105                   | 55.8                 | 154.1                          | 6,800                      |
| 110                   | 53.9                 | 150.5                          | 6,200                      |
| 115                   | 51.9                 | 146.7                          | 5,700                      |
| 120                   | 49.8                 | 142.6                          | 5,200                      |
| 125                   | 47.7                 | 138.1                          | 4,700                      |
| 130                   | 45.5                 | 133.4                          | 4,300                      |
| 135                   | 43.2                 | 128.2                          | 3,900                      |
| 140                   | 40.8                 | 122.6                          | 3,600                      |
| 145                   | 38.3                 | 116.5                          | 3,300                      |
| 150                   | 35.6                 | 109.7                          | 3,000                      |

| Oper.<br>Rad.<br>Feet | Boom<br>Ang.<br>Deg. | Boom<br>Point<br>Elev.<br>Feet | Boom<br>Capacity<br>Pounds |
|-----------------------|----------------------|--------------------------------|----------------------------|
| <b>190 Ft. BOOM</b>   |                      |                                |                            |
| 32                    | 81.5                 | 193.4                          | 30,000 *                   |
| 34                    | 80.9                 | 193.1                          | 29,600 *                   |
| 36                    | 80.3                 | 192.8                          | 29,100 *                   |
| 38                    | 79.7                 | 192.4                          | 29,000 *                   |
| 40                    | 79.1                 | 192.0                          | 27,900 *                   |
| 45                    | 77.5                 | 191.0                          | 25,500                     |
| 50                    | 76.0                 | 189.8                          | 21,900                     |
| 55                    | 74.4                 | 188.4                          | 19,300                     |
| 60                    | 72.8                 | 186.9                          | 16,900                     |
| 65                    | 71.3                 | 185.3                          | 15,000                     |
| 70                    | 69.7                 | 183.5                          | 13,300                     |
| 75                    | 68.0                 | 181.5                          | 12,000                     |
| 80                    | 66.4                 | 179.4                          | 10,700                     |
| 85                    | 64.7                 | 177.1                          | 9,700                      |
| 90                    | 63.1                 | 174.6                          | 8,800                      |
| 95                    | 61.3                 | 172.0                          | 8,000                      |
| 100                   | 59.6                 | 169.1                          | 7,200                      |
| 105                   | 57.8                 | 166.0                          | 6,600                      |
| 110                   | 56.0                 | 162.7                          | 6,000                      |
| 115                   | 54.2                 | 159.2                          | 5,400                      |
| 120                   | 52.3                 | 155.5                          | 5,000                      |
| 125                   | 50.4                 | 151.4                          | 4,500                      |
| 130                   | 48.4                 | 147.1                          | 4,100                      |
| 135                   | 46.3                 | 142.4                          | 3,700                      |
| 140                   | 44.2                 | 137.4                          | 3,400                      |
| 145                   | 42.0                 | 132.1                          | 3,100                      |