



Liftcrane Boom Capacities

777 SERIES 2

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
 ANSI B30.5
 Requirements

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 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. 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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants, 142,000 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

| Deduct From Capacities When Jib Is Attached | |
|--|-------------|
| Jib length | Jib No. 134 |
| 30 Ft. | 3,900 Lbs. |
| 40 Ft. | 4,700 Lbs. |
| 50 Ft. | 5,600 Lbs. |
| 60 Ft. | 6,600 Lbs. |
| 70 Ft. | 7,600 Lbs. |
| 80 Ft. | 8,700 Lbs. |

Upper Boom Point Deduct
 Deduct 1,000 Lbs. from capacities
 when upper boom point is attached.

Auxiliary Drum Deduct
 Deduct 1,700 Lbs. from capacities when
 boom butt is equipped with auxiliary drum.



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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) 270 Ft. | --- | (a) 260 Ft. | --- | 230 Ft. | --- |
| (a) 260 Ft. | --- | 250 Ft. | --- | 220 Ft. | --- |
| 250 Ft. | --- | 240 Ft. | --- | 210 Ft. | 50 Ft. |
| 240 Ft. | 30 Ft. | 230 Ft. | 50 Ft. | 200 Ft. | 70 Ft. |
| 230 Ft. | 50 Ft. | 220 Ft. | 70 Ft. | 190 Ft. | 80 Ft. |
| 220 Ft. | 80 Ft. | 210 Ft. | 80 Ft. | | |

Load block, hook and weight ball on ground at start.
(a) Upper boom point cannot be used on 260 Ft. and 270 Ft. booms. Auxiliary drum in boom butt and wire rope guide in 10 Ft. insert cannot be used on 270 Ft. boom.

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

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|--------------------|----------------|-----------------------|----------------------|
| 60 ft. BOOM | | | |
| 13 | 82.4 | 66.8 | 352,800 * |
| 14 | 81.4 | 66.7 | 337,800 * |
| 15 | 80.5 | 66.5 | 316,700 * |
| 16 | 79.5 | 66.3 | 298,000 * |
| 17 | 78.5 | 66.1 | 281,300 * |
| 18 | 77.5 | 65.8 | 266,300 * |
| 19 | 76.5 | 65.6 | 252,800 * |
| 20 | 75.6 | 65.3 | 240,600 * |
| 22 | 73.6 | 64.7 | 219,200 * |
| 24 | 71.5 | 64.0 | 201,200 * |
| 26 | 69.5 | 63.2 | 185,800 * |
| 28 | 67.4 | 62.4 | 172,500 * |
| 30 | 65.3 | 61.4 | 160,900 * |
| 32 | 63.2 | 60.4 | 147,500 * |
| 34 | 61.0 | 59.3 | 135,000 * |
| 36 | 58.7 | 58.0 | 124,400 * |
| 38 | 56.4 | 56.7 | 115,100 * |
| 40 | 54.1 | 55.2 | 107,100 * |
| 45 | 47.8 | 50.9 | 90,800 * |
| 50 | 40.7 | 45.5 | 78,400 * |
| 55 | 32.4 | 38.4 | 68,600 * |
| 60 | 21.2 | 27.8 | 60,600 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|--------------------|----------------|-----------------------|----------------------|
| 70 ft. BOOM | | | |
| 14 | 82.7 | 76.8 | 309,900 * |
| 15 | 81.8 | 76.6 | 303,000 * |
| 16 | 81.0 | 76.5 | 294,100 * |
| 17 | 80.2 | 76.3 | 281,300 * |
| 18 | 79.3 | 76.1 | 266,300 * |
| 19 | 78.5 | 75.9 | 252,800 * |
| 20 | 77.7 | 75.6 | 240,600 * |
| 22 | 76.0 | 75.1 | 219,200 * |
| 24 | 74.3 | 74.5 | 201,200 * |
| 26 | 72.6 | 73.9 | 185,700 * |
| 28 | 70.8 | 73.2 | 172,500 * |
| 30 | 69.1 | 72.4 | 160,900 * |
| 32 | 67.3 | 71.5 | 148,100 * |
| 34 | 65.5 | 70.6 | 135,600 * |
| 36 | 63.6 | 69.6 | 124,900 * |
| 38 | 61.8 | 68.5 | 115,600 * |
| 40 | 59.9 | 67.3 | 107,600 * |
| 45 | 54.9 | 64.0 | 91,300 * |
| 50 | 49.7 | 59.9 | 78,900 * |
| 55 | 43.9 | 55.0 | 69,100 * |
| 60 | 37.5 | 48.9 | 61,300 * |
| 65 | 29.9 | 41.0 | 54,700 * |
| 70 | 19.5 | 29.5 | 49,200 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|--------------------|----------------|-----------------------|----------------------|
| 80 ft. BOOM | | | |
| 15 | 82.9 | 86.8 | 275,500 * |
| 16 | 82.1 | 86.6 | 267,600 * |
| 17 | 81.4 | 86.4 | 259,900 * |
| 18 | 80.7 | 86.3 | 252,900 * |
| 19 | 80.0 | 86.1 | 246,200 * |
| 20 | 79.2 | 85.9 | 239,900 * |
| 22 | 77.8 | 85.4 | 219,000 * |
| 24 | 76.3 | 84.9 | 201,000 * |
| 26 | 74.8 | 84.4 | 185,600 * |
| 28 | 73.3 | 83.8 | 172,300 * |
| 30 | 71.8 | 83.1 | 160,700 * |
| 32 | 70.3 | 82.3 | 148,500 * |
| 34 | 68.7 | 81.6 | 135,900 * |
| 36 | 67.2 | 80.7 | 125,200 * |
| 38 | 65.6 | 79.8 | 115,900 * |
| 40 | 64.0 | 78.8 | 107,800 * |
| 45 | 59.9 | 76.0 | 91,500 * |
| 50 | 55.6 | 72.7 | 79,100 * |
| 55 | 51.1 | 68.8 | 69,300 * |
| 60 | 46.2 | 64.2 | 61,500 * |
| 65 | 40.9 | 58.8 | 55,000 * |
| 70 | 34.9 | 52.1 | 49,500 * |
| 75 | 27.8 | 43.5 | 44,900 * |
| 80 | 18.2 | 31.0 | 40,800 * |



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44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 90 ft. BOOM | | | |
| 16 | 83.0 | 96.7 | 256,700 * |
| 17 | 82.4 | 96.6 | 249,700 * |
| 18 | 81.7 | 96.4 | 243,100 * |
| 19 | 81.1 | 96.2 | 236,800 * |
| 20 | 80.4 | 96.1 | 230,700 * |
| 22 | 79.1 | 95.7 | 218,800 * |
| 24 | 77.8 | 95.2 | 200,800 * |
| 26 | 76.5 | 94.7 | 185,400 * |
| 28 | 75.2 | 94.2 | 172,100 * |
| 30 | 73.9 | 93.6 | 160,500 * |
| 32 | 72.5 | 93.0 | 148,500 |
| 34 | 71.2 | 92.3 | 135,900 |
| 36 | 69.8 | 91.5 | 125,200 |
| 38 | 68.5 | 90.7 | 115,900 |
| 40 | 67.1 | 89.9 | 107,800 |
| 45 | 63.6 | 87.5 | 91,500 |
| 50 | 59.9 | 84.7 | 79,100 |
| 55 | 56.1 | 81.4 | 69,400 |
| 60 | 52.1 | 77.7 | 61,600 |
| 65 | 47.9 | 73.3 | 55,100 |
| 70 | 43.4 | 68.2 | 49,700 |
| 75 | 38.4 | 62.3 | 45,100 |
| 80 | 32.8 | 55.0 | 41,100 |
| 85 | 26.1 | 45.8 | 37,600 |
| 90 | 17.1 | 32.5 | 34,400 |
| 100 ft. BOOM | | | |
| 18 | 82.6 | 106.5 | 221,400 * |
| 19 | 82.0 | 106.4 | 215,900 * |
| 20 | 81.4 | 106.2 | 210,700 * |
| 22 | 80.2 | 105.9 | 200,800 * |
| 24 | 79.1 | 105.5 | 191,700 * |
| 26 | 77.9 | 105.0 | 183,300 * |
| 28 | 76.7 | 104.5 | 171,800 * |
| 30 | 75.5 | 104.0 | 160,200 * |
| 32 | 74.4 | 103.4 | 148,600 |
| 34 | 73.2 | 102.8 | 136,000 |
| 36 | 71.9 | 102.2 | 125,200 |
| 38 | 70.7 | 101.5 | 115,900 |
| 40 | 69.5 | 100.7 | 107,800 |
| 45 | 66.4 | 98.6 | 91,500 |
| 50 | 63.2 | 96.1 | 79,100 |
| 55 | 59.9 | 93.3 | 69,300 |
| 60 | 56.5 | 90.1 | 61,500 |
| 65 | 53.0 | 86.4 | 55,000 |
| 70 | 49.2 | 82.3 | 49,600 |
| 75 | 45.3 | 77.5 | 45,000 |
| 80 | 41.0 | 72.0 | 41,000 |
| 85 | 36.3 | 65.5 | 37,500 |
| 90 | 31.0 | 57.8 | 34,500 |
| 95 | 24.7 | 48.0 | 31,700 |
| 100 | 16.1 | 33.9 | 29,200 |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 110 ft. BOOM | | | |
| 19 | 82.7 | 116.5 | 211,100 * |
| 20 | 82.2 | 116.3 | 205,700 * |
| 22 | 81.1 | 116.0 | 195,600 * |
| 24 | 80.1 | 115.7 | 186,300 * |
| 26 | 79.0 | 115.3 | 177,600 * |
| 28 | 78.0 | 114.8 | 167,700 * |
| 30 | 76.9 | 114.4 | 156,600 * |
| 32 | 75.8 | 113.8 | 147,100 * |
| 34 | 74.7 | 113.3 | 136,000 |
| 36 | 73.6 | 112.7 | 125,300 |
| 38 | 72.5 | 112.0 | 116,000 |
| 40 | 71.4 | 111.4 | 107,900 |
| 45 | 68.7 | 109.5 | 91,500 |
| 50 | 65.8 | 107.3 | 79,100 |
| 55 | 62.9 | 104.8 | 69,300 |
| 60 | 59.9 | 102.0 | 61,500 |
| 65 | 56.8 | 98.8 | 55,000 |
| 70 | 53.6 | 95.2 | 49,600 |
| 75 | 50.3 | 91.2 | 45,000 |
| 80 | 46.8 | 86.6 | 41,000 |
| 85 | 43.0 | 81.5 | 37,600 |
| 90 | 39.0 | 75.6 | 34,500 |
| 95 | 34.5 | 68.7 | 31,800 |
| 100 | 29.5 | 60.4 | 29,400 |
| 105 | 23.5 | 50.0 | 27,200 |
| 110 | 15.3 | 35.2 | 25,200 |
| 120 ft. BOOM | | | |
| 20 | 82.9 | 126.4 | 192,200 * |
| 22 | 81.9 | 126.2 | 183,700 * |
| 24 | 80.9 | 125.8 | 175,900 * |
| 26 | 79.9 | 125.5 | 168,600 * |
| 28 | 79.0 | 125.1 | 161,800 * |
| 30 | 78.0 | 124.6 | 152,200 * |
| 32 | 77.0 | 124.2 | 142,800 * |
| 34 | 76.0 | 123.6 | 134,700 * |
| 36 | 75.0 | 123.1 | 125,400 |
| 38 | 74.0 | 122.5 | 116,000 |
| 40 | 73.0 | 121.9 | 107,900 |
| 45 | 70.5 | 120.2 | 91,500 |
| 50 | 68.0 | 118.2 | 79,100 |
| 55 | 65.3 | 116.0 | 69,300 |
| 60 | 62.7 | 113.5 | 61,500 |
| 65 | 59.9 | 110.6 | 55,000 |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 120 ft. BOOM | | | |
| 70 | 57.1 | 107.5 | 49,600 |
| 75 | 54.2 | 104.0 | 45,000 |
| 80 | 51.2 | 100.0 | 41,000 |
| 85 | 48.0 | 95.7 | 37,600 |
| 90 | 44.6 | 90.8 | 34,500 |
| 95 | 41.1 | 85.2 | 31,800 |
| 100 | 37.2 | 78.9 | 29,400 |
| 105 | 33.0 | 71.6 | 27,300 |
| 110 | 28.2 | 62.9 | 25,300 |
| 115 | 22.5 | 52.0 | 23,500 |
| 130 ft. BOOM | | | |
| 22 | 82.5 | 136.3 | 176,100 * |
| 24 | 81.6 | 136.0 | 168,300 * |
| 26 | 80.7 | 135.6 | 161,100 * |
| 28 | 79.8 | 135.3 | 154,400 * |
| 30 | 78.9 | 134.9 | 148,100 * |
| 32 | 78.0 | 134.4 | 139,100 * |
| 34 | 77.1 | 134.0 | 131,100 * |
| 36 | 76.2 | 133.5 | 124,000 * |
| 38 | 75.3 | 132.9 | 116,000 |
| 40 | 74.4 | 132.4 | 107,800 |
| 45 | 72.1 | 130.8 | 91,400 |
| 50 | 69.7 | 129.0 | 79,000 |
| 55 | 67.4 | 127.0 | 69,200 |
| 60 | 64.9 | 124.7 | 61,400 |
| 65 | 62.5 | 122.1 | 54,900 |
| 70 | 59.9 | 119.3 | 49,500 |
| 75 | 57.3 | 116.2 | 44,900 |
| 80 | 54.7 | 112.7 | 40,900 |
| 85 | 51.9 | 108.9 | 37,400 |
| 90 | 49.0 | 104.6 | 34,400 |
| 95 | 46.0 | 99.9 | 31,700 |
| 100 | 42.8 | 94.7 | 29,300 |
| 105 | 39.4 | 88.8 | 27,200 |
| 110 | 35.7 | 82.1 | 25,200 |
| 115 | 31.6 | 74.4 | 23,400 |
| 120 | 27.0 | 65.3 | 21,800 |
| 125 | 21.5 | 53.8 | 20,300 |



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Meets
ANSI B30.5
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360 Degree Rating

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 140 ft. BOOM | | | |
| 24 | 82.2 | 146.1 | 157,900 * |
| 26 | 81.4 | 145.8 | 151,800 * |
| 28 | 80.6 | 145.4 | 146,000 * |
| 30 | 79.7 | 145.1 | 140,600 * |
| 32 | 78.9 | 144.7 | 135,400 * |
| 34 | 78.1 | 144.2 | 127,500 * |
| 36 | 77.2 | 143.8 | 120,500 * |
| 38 | 76.4 | 143.3 | 114,300 * |
| 40 | 75.5 | 142.7 | 107,700 * |
| 45 | 73.4 | 141.3 | 91,300 * |
| 50 | 71.3 | 139.6 | 78,800 * |
| 55 | 69.1 | 137.8 | 69,000 * |
| 60 | 66.8 | 135.7 | 61,100 * |
| 65 | 64.6 | 133.4 | 54,600 * |
| 70 | 62.3 | 130.8 | 49,200 * |
| 75 | 59.9 | 128.0 | 44,600 * |
| 80 | 57.5 | 124.8 | 40,600 * |
| 85 | 55.0 | 121.4 | 37,200 * |
| 90 | 52.5 | 117.7 | 34,100 * |
| 95 | 49.8 | 113.6 | 31,400 * |
| 100 | 47.1 | 109.0 | 29,000 * |
| 105 | 44.2 | 104.0 | 26,900 * |
| 110 | 41.1 | 98.5 | 25,000 * |
| 115 | 37.9 | 92.3 | 23,200 * |
| 120 | 34.3 | 85.2 | 21,600 * |
| 125 | 30.4 | 77.2 | 20,100 * |
| 130 | 26.0 | 67.6 | 18,700 * |
| 135 | 20.7 | 55.6 | 17,400 * |
| 150 ft. BOOM | | | |
| 24 | 82.8 | 156.2 | 152,500 * |
| 26 | 82.0 | 155.9 | 146,300 * |
| 28 | 81.2 | 155.6 | 140,500 * |
| 30 | 80.4 | 155.2 | 135,000 * |
| 32 | 79.7 | 154.9 | 129,900 * |
| 34 | 78.9 | 154.5 | 124,200 * |
| 36 | 78.1 | 154.0 | 117,300 * |
| 38 | 77.3 | 153.6 | 111,300 * |
| 40 | 76.5 | 153.1 | 105,800 * |
| 45 | 74.5 | 151.7 | 91,100 * |
| 50 | 72.5 | 150.2 | 78,600 * |
| 55 | 70.5 | 148.5 | 68,800 * |
| 60 | 68.5 | 146.5 | 60,900 * |
| 65 | 66.4 | 144.4 | 54,400 * |
| 70 | 64.3 | 142.0 | 49,000 * |
| 75 | 62.1 | 139.5 | 44,400 * |
| 80 | 59.9 | 136.6 | 40,400 * |
| 85 | 57.7 | 133.5 | 37,000 * |
| 90 | 55.4 | 130.1 | 33,900 * |
| 95 | 53.0 | 126.4 | 31,200 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 150 ft. BOOM | | | |
| 100 | 50.6 | 122.4 | 28,800 * |
| 105 | 48.0 | 118.0 | 26,700 * |
| 110 | 45.4 | 113.2 | 24,800 * |
| 115 | 42.6 | 107.9 | 23,000 * |
| 120 | 39.7 | 102.1 | 21,400 * |
| 125 | 36.5 | 95.6 | 19,900 * |
| 130 | 33.1 | 88.2 | 18,600 * |
| 135 | 29.4 | 79.8 | 17,300 * |
| 140 | 25.1 | 69.8 | 16,100 * |
| 145 | 20.0 | 57.4 | 15,000 * |
| 160 ft. BOOM | | | |
| 26 | 82.5 | 166.0 | 139,000 * |
| 28 | 81.8 | 165.7 | 133,400 * |
| 30 | 81.0 | 165.4 | 128,100 * |
| 32 | 80.3 | 165.0 | 123,100 * |
| 34 | 79.6 | 164.7 | 118,400 * |
| 36 | 78.8 | 164.3 | 114,000 * |
| 38 | 78.1 | 163.8 | 108,500 * |
| 40 | 77.4 | 163.4 | 103,200 * |
| 45 | 75.5 | 162.1 | 91,000 * |
| 50 | 73.7 | 160.7 | 78,500 * |
| 55 | 71.8 | 159.1 | 68,700 * |
| 60 | 69.9 | 157.3 | 60,800 * |
| 65 | 68.0 | 155.3 | 54,300 * |
| 70 | 66.0 | 153.1 | 48,900 * |
| 75 | 64.0 | 150.7 | 44,200 * |
| 80 | 62.0 | 148.1 | 40,300 * |
| 85 | 59.9 | 145.3 | 36,800 * |
| 90 | 57.8 | 142.2 | 33,800 * |
| 95 | 55.7 | 138.8 | 31,100 * |
| 100 | 53.5 | 135.2 | 28,700 * |
| 105 | 51.2 | 131.3 | 26,500 * |
| 110 | 48.8 | 127.0 | 24,600 * |
| 115 | 46.4 | 122.3 | 22,800 * |
| 120 | 43.8 | 117.3 | 21,200 * |
| 125 | 41.2 | 111.7 | 19,800 * |
| 130 | 38.3 | 105.6 | 18,400 * |
| 135 | 35.3 | 98.7 | 17,200 * |
| 140 | 32.0 | 91.1 | 16,000 * |
| 145 | 28.4 | 82.3 | 14,900 * |
| 150 | 24.3 | 71.9 | 13,900 * |
| 155 | 19.3 | 59.1 | 12,900 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 170 ft. BOOM | | | |
| 26 | 82.9 | 176.1 | 133,600 * |
| 28 | 82.2 | 175.8 | 128,200 * |
| 30 | 81.6 | 175.5 | 123,000 * |
| 32 | 80.9 | 175.2 | 118,100 * |
| 34 | 80.2 | 174.8 | 113,400 * |
| 36 | 79.5 | 174.5 | 109,100 * |
| 38 | 78.8 | 174.0 | 105,000 * |
| 40 | 78.1 | 173.6 | 100,500 * |
| 45 | 76.4 | 172.4 | 89,400 * |
| 50 | 74.7 | 171.1 | 78,300 * |
| 55 | 72.9 | 169.6 | 68,500 * |
| 60 | 71.1 | 167.9 | 60,600 * |
| 65 | 69.3 | 166.1 | 54,100 * |
| 70 | 67.5 | 164.0 | 48,600 * |
| 75 | 65.7 | 161.8 | 44,000 * |
| 80 | 63.8 | 159.4 | 40,000 * |
| 85 | 61.9 | 156.8 | 36,600 * |
| 90 | 59.9 | 153.9 | 33,500 * |
| 95 | 58.0 | 150.9 | 30,800 * |
| 100 | 55.9 | 147.5 | 28,400 * |
| 105 | 53.9 | 144.0 | 26,300 * |
| 110 | 51.7 | 140.1 | 24,400 * |
| 115 | 49.5 | 135.9 | 22,600 * |
| 120 | 47.3 | 131.4 | 21,000 * |
| 125 | 44.9 | 126.5 | 19,500 * |
| 130 | 42.5 | 121.2 | 18,200 * |
| 135 | 39.9 | 115.3 | 16,900 * |
| 140 | 37.1 | 108.9 | 15,800 * |
| 145 | 34.2 | 101.8 | 14,700 * |
| 150 | 31.0 | 93.8 | 13,700 * |
| 155 | 27.5 | 84.7 | 12,800 * |
| 160 | 23.5 | 74.0 | 11,900 * |
| 165 | 18.7 | 60.7 | 11,000 * |



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44,000 Lb. Carbody Counterweight
360 Degree Rating

Meets
ANSI B30.5
Requirements

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 180 ft. BOOM | | | |
| 28 | 82.7 | 185.9 | 122,000 * |
| 30 | 82.0 | 185.6 | 117,400 * |
| 32 | 81.4 | 185.3 | 113,000 * |
| 34 | 80.7 | 185.0 | 108,800 * |
| 36 | 80.1 | 184.6 | 104,700 * |
| 38 | 79.5 | 184.2 | 100,600 * |
| 40 | 78.8 | 183.8 | 96,800 * |
| 45 | 77.2 | 182.7 | 87,100 * |
| 50 | 75.5 | 181.5 | 78,000 |
| 55 | 73.9 | 180.1 | 68,200 |
| 60 | 72.2 | 178.5 | 60,300 |
| 65 | 70.5 | 176.8 | 53,800 |
| 70 | 68.8 | 174.9 | 48,300 |
| 75 | 67.1 | 172.8 | 43,700 |
| 80 | 65.4 | 170.5 | 39,700 |
| 85 | 63.6 | 168.1 | 36,200 |
| 90 | 61.8 | 165.4 | 33,200 |
| 95 | 60.0 | 162.6 | 30,500 |
| 100 | 58.1 | 159.5 | 28,100 |
| 105 | 56.2 | 156.2 | 25,900 |
| 110 | 54.2 | 152.7 | 24,000 |
| 115 | 52.2 | 148.9 | 22,300 |
| 120 | 50.2 | 144.8 | 20,600 |
| 125 | 48.1 | 140.4 | 19,200 |
| 130 | 45.9 | 135.6 | 17,800 |
| 135 | 43.6 | 130.5 | 16,600 |
| 140 | 41.2 | 124.9 | 15,400 |
| 145 | 38.7 | 118.8 | 14,400 |
| 150 | 36.0 | 112.2 | 13,400 |
| 155 | 33.2 | 104.8 | 12,400 |
| 160 | 30.1 | 96.5 | 11,600 |
| 165 | 26.7 | 87.1 | 10,700 |
| 170 | 22.8 | 76.0 | 9,900 |
| 175 | 18.2 | 62.3 | 9,200 |
| 190 ft. BOOM | | | |
| 30 | 82.5 | 195.7 | 116,600 * |
| 32 | 81.9 | 195.4 | 113,200 * |
| 34 | 81.2 | 195.1 | 109,900 * |
| 36 | 80.6 | 194.8 | 106,500 * |
| 38 | 80.0 | 194.4 | 101,200 * |
| 40 | 79.4 | 194.0 | 96,000 * |
| 45 | 77.9 | 193.0 | 85,200 * |
| 50 | 76.3 | 191.8 | 76,500 * |
| 55 | 74.8 | 190.5 | 67,700 |
| 60 | 73.2 | 189.0 | 59,800 |
| 65 | 71.6 | 187.4 | 53,300 |
| 70 | 70.0 | 185.6 | 47,800 |
| 75 | 68.4 | 183.6 | 43,200 |
| 80 | 66.7 | 181.5 | 39,200 |
| 85 | 65.1 | 179.2 | 35,700 |
| 90 | 63.4 | 176.8 | 32,700 |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 190 ft. BOOM | | | |
| 95 | 61.7 | 174.1 | 30,000 |
| 100 | 60.0 | 171.3 | 27,600 |
| 105 | 58.2 | 168.2 | 25,400 |
| 110 | 56.4 | 164.9 | 23,500 |
| 115 | 54.5 | 161.4 | 21,700 |
| 120 | 52.7 | 157.7 | 20,100 |
| 125 | 50.7 | 153.7 | 18,700 |
| 130 | 48.7 | 149.4 | 17,300 |
| 135 | 46.7 | 144.7 | 16,100 |
| 140 | 44.6 | 139.8 | 14,900 |
| 145 | 42.3 | 134.4 | 13,800 |
| 150 | 40.0 | 128.6 | 12,800 |
| 155 | 37.6 | 122.3 | 11,900 |
| 160 | 35.0 | 115.3 | 11,000 |
| 165 | 32.3 | 107.7 | 10,200 |
| 170 | 29.3 | 99.1 | 9,400 |
| 175 | 26.0 | 89.4 | 8,700 |
| 180 | 22.2 | 77.9 | 8,000 |
| 185 | 17.7 | 63.8 | 7,300 |
| 200 ft. BOOM | | | |
| 30 | 82.8 | 205.8 | 109,700 * |
| 32 | 82.3 | 205.5 | 106,300 * |
| 34 | 81.7 | 205.2 | 103,000 * |
| 36 | 81.1 | 204.9 | 99,900 * |
| 38 | 80.5 | 204.6 | 96,900 * |
| 40 | 79.9 | 204.2 | 93,400 * |
| 45 | 78.5 | 203.2 | 82,700 * |
| 50 | 77.0 | 202.1 | 74,300 * |
| 55 | 75.5 | 200.8 | 67,400 * |
| 60 | 74.0 | 199.4 | 59,600 |
| 65 | 72.5 | 197.9 | 53,100 |
| 70 | 71.0 | 196.2 | 47,600 |
| 75 | 69.5 | 194.4 | 42,900 |
| 80 | 68.0 | 192.4 | 39,000 |
| 85 | 66.4 | 190.2 | 35,500 |
| 90 | 64.8 | 187.9 | 32,400 |
| 95 | 63.2 | 185.4 | 29,700 |
| 100 | 61.6 | 182.8 | 27,300 |
| 105 | 60.0 | 179.9 | 25,200 |
| 110 | 58.3 | 176.9 | 23,200 |
| 115 | 56.6 | 173.6 | 21,500 |
| 120 | 54.8 | 170.2 | 19,900 |
| 125 | 53.0 | 166.5 | 18,400 |
| 130 | 51.2 | 162.5 | 17,100 |
| 135 | 49.3 | 158.3 | 15,800 |
| 140 | 47.4 | 153.8 | 14,700 |
| 145 | 45.4 | 148.9 | 13,600 |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 200 ft. BOOM | | | |
| 150 | 43.4 | 143.7 | 12,600 |
| 155 | 41.2 | 138.2 | 11,700 |
| 160 | 39.0 | 132.1 | 10,800 |
| 165 | 36.6 | 125.6 | 10,000 |
| 170 | 34.1 | 118.4 | 9,200 |
| 175 | 31.4 | 110.5 | 8,500 |
| 180 | 28.5 | 101.7 | 7,800 |
| 185 | 25.3 | 91.6 | 7,200 |
| 190 | 21.6 | 79.8 | 6,500 |
| 195 | 17.2 | 65.3 | 5,900 |
| 210 ft. BOOM | | | |
| 32 | 82.6 | 215.6 | 105,700 * |
| 34 | 82.1 | 215.4 | 102,700 * |
| 36 | 81.5 | 215.1 | 98,200 * |
| 38 | 81.0 | 214.7 | 94,300 * |
| 40 | 80.4 | 214.4 | 89,700 * |
| 45 | 79.0 | 213.4 | 80,100 * |
| 50 | 77.6 | 212.4 | 72,500 * |
| 55 | 76.2 | 211.2 | 65,800 * |
| 60 | 74.8 | 209.8 | 59,300 |
| 65 | 73.4 | 208.4 | 52,800 |
| 70 | 72.0 | 206.8 | 47,300 |
| 75 | 70.5 | 205.0 | 42,700 |
| 80 | 69.1 | 203.2 | 38,700 |
| 85 | 67.6 | 201.1 | 35,200 |
| 90 | 66.1 | 198.9 | 32,200 |
| 95 | 64.6 | 196.6 | 29,500 |
| 100 | 63.1 | 194.1 | 27,100 |
| 105 | 61.5 | 191.4 | 24,900 |
| 110 | 60.0 | 188.6 | 23,000 |
| 115 | 58.4 | 185.5 | 21,200 |
| 120 | 56.7 | 182.3 | 19,600 |
| 125 | 55.1 | 178.9 | 18,200 |
| 130 | 53.4 | 175.2 | 16,800 |
| 135 | 51.7 | 171.3 | 15,600 |
| 140 | 49.9 | 167.2 | 14,400 |
| 145 | 48.1 | 162.8 | 13,400 |
| 150 | 46.2 | 158.0 | 12,400 |
| 155 | 44.3 | 153.0 | 11,400 |
| 160 | 42.3 | 147.6 | 10,600 |
| 165 | 40.2 | 141.8 | 9,800 |
| 170 | 38.0 | 135.6 | 9,000 |
| 175 | 35.7 | 128.8 | 8,300 |
| 180 | 33.2 | 121.4 | 7,600 |
| 185 | 30.6 | 113.2 | 7,000 |
| 190 | 27.8 | 104.1 | 6,300 |
| 195 | 24.7 | 93.8 | 5,800 |
| 200 | 21.1 | 81.7 | 5,200 |
| 205 | 16.8 | 66.7 | 4,600 |



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 220 ft. BOOM | | | |
| 32 | 83.0 | 225.7 | 105,100 * |
| 34 | 82.4 | 225.5 | 102,400 * |
| 36 | 81.9 | 225.2 | 96,600 * |
| 38 | 81.4 | 224.9 | 91,500 * |
| 40 | 80.9 | 224.5 | 86,900 * |
| 45 | 79.5 | 223.6 | 77,500 * |
| 50 | 78.2 | 222.6 | 70,000 * |
| 55 | 76.9 | 221.5 | 63,700 * |
| 60 | 75.5 | 220.2 | 58,100 * |
| 65 | 74.2 | 218.8 | 52,500 |
| 70 | 72.8 | 217.3 | 47,000 |
| 75 | 71.4 | 215.6 | 42,400 |
| 80 | 70.1 | 213.9 | 38,400 |
| 85 | 68.7 | 211.9 | 34,900 |
| 90 | 67.3 | 209.9 | 31,800 |
| 95 | 65.8 | 207.7 | 29,100 |
| 100 | 64.4 | 205.3 | 26,700 |
| 105 | 62.9 | 202.8 | 24,600 |
| 110 | 61.5 | 200.1 | 22,600 |
| 115 | 60.0 | 197.2 | 20,900 |
| 120 | 58.4 | 194.2 | 19,300 |
| 125 | 56.9 | 191.0 | 17,800 |
| 130 | 55.3 | 187.6 | 16,400 |
| 135 | 53.7 | 184.0 | 15,200 |
| 140 | 52.1 | 180.1 | 14,000 |
| 145 | 50.4 | 176.0 | 13,000 |
| 150 | 48.7 | 171.7 | 12,000 |
| 155 | 46.9 | 167.1 | 11,100 |
| 160 | 45.1 | 162.2 | 10,200 |
| 165 | 43.2 | 157.0 | 9,400 |
| 170 | 41.2 | 151.4 | 8,600 |
| 175 | 39.2 | 145.4 | 7,900 |
| 180 | 37.1 | 138.9 | 7,200 |
| 185 | 34.8 | 131.9 | 6,600 |
| 190 | 32.4 | 124.3 | 6,000 |
| 195 | 29.9 | 115.9 | 5,400 |
| 200 | 27.1 | 106.5 | 4,800 |
| 205 | 24.1 | 95.9 | 4,300 |
| 230 ft. BOOM | | | |
| 34 | 82.8 | 235.6 | 97,100 * |
| 36 | 82.3 | 235.3 | 94,300 * |
| 38 | 81.8 | 235.0 | 89,300 * |
| 40 | 81.3 | 234.7 | 84,700 * |
| 45 | 80.0 | 233.8 | 75,400 * |
| 50 | 78.7 | 232.8 | 68,000 * |
| 55 | 77.5 | 231.7 | 61,900 * |
| 60 | 76.2 | 230.5 | 56,400 * |
| 65 | 74.9 | 229.2 | 51,700 * |
| 70 | 73.6 | 227.8 | 46,700 |
| 75 | 72.3 | 226.2 | 42,100 |
| 80 | 71.0 | 224.5 | 38,100 |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 230 ft. BOOM | | | |
| 85 | 69.6 | 222.7 | 34,600 |
| 90 | 68.3 | 220.7 | 31,500 |
| 95 | 67.0 | 218.6 | 28,800 |
| 100 | 65.6 | 216.4 | 26,400 |
| 105 | 64.2 | 214.0 | 24,200 |
| 110 | 62.8 | 211.4 | 22,300 |
| 115 | 61.4 | 208.8 | 20,500 |
| 120 | 60.0 | 205.9 | 18,900 |
| 125 | 58.5 | 202.9 | 17,500 |
| 130 | 57.0 | 199.7 | 16,100 |
| 135 | 55.5 | 196.3 | 14,900 |
| 140 | 54.0 | 192.7 | 13,700 |
| 145 | 52.4 | 188.9 | 12,600 |
| 150 | 50.8 | 184.9 | 11,600 |
| 155 | 49.2 | 180.6 | 10,700 |
| 160 | 47.5 | 176.1 | 9,900 |
| 165 | 45.8 | 171.3 | 9,000 |
| 170 | 44.0 | 166.3 | 8,300 |
| 175 | 42.2 | 160.8 | 7,600 |
| 180 | 40.3 | 155.1 | 6,900 |
| 185 | 38.3 | 148.9 | 6,200 |
| 190 | 36.2 | 142.2 | 5,600 |
| 195 | 34.0 | 135.0 | 5,100 |
| 200 | 31.7 | 127.1 | 4,500 |
| 205 | 29.2 | 118.5 | 4,000 |
| 240 ft. BOOM | | | |
| 36 | 82.6 | 245.4 | 88,500 * |
| 38 | 82.1 | 245.1 | 87,100 * |
| 40 | 81.6 | 244.8 | 82,600 * |
| 45 | 80.4 | 244.0 | 73,200 * |
| 50 | 79.2 | 243.0 | 65,900 * |
| 55 | 78.0 | 242.0 | 60,000 * |
| 60 | 76.8 | 240.8 | 55,000 * |
| 65 | 75.5 | 239.6 | 50,400 * |
| 70 | 74.3 | 238.2 | 46,400 * |
| 75 | 73.0 | 236.7 | 41,800 |
| 80 | 71.8 | 235.1 | 37,700 |
| 85 | 70.5 | 233.3 | 34,300 |
| 90 | 69.3 | 231.5 | 31,200 |
| 95 | 68.0 | 229.5 | 28,500 |
| 100 | 66.7 | 227.3 | 26,100 |
| 105 | 65.4 | 225.1 | 23,900 |
| 110 | 64.0 | 222.7 | 22,000 |
| 115 | 62.7 | 220.1 | 20,200 |
| 120 | 61.3 | 217.4 | 18,600 |
| 125 | 60.0 | 214.6 | 17,100 |
| 130 | 58.6 | 211.5 | 15,800 |
| 135 | 57.2 | 208.4 | 14,600 |
| 140 | 55.7 | 205.0 | 13,400 |
| 145 | 54.3 | 201.4 | 12,300 |
| 150 | 52.8 | 197.7 | 11,300 |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 240 ft. BOOM | | | |
| 155 | 51.2 | 193.7 | 10,400 |
| 160 | 49.7 | 189.5 | 9,600 |
| 165 | 48.1 | 185.1 | 8,700 |
| 170 | 46.5 | 180.4 | 8,000 |
| 175 | 44.8 | 175.5 | 7,300 |
| 180 | 43.0 | 170.2 | 6,600 |
| 185 | 41.2 | 164.6 | 6,000 |
| 190 | 39.4 | 158.6 | 5,300 |
| 195 | 37.4 | 152.3 | 4,800 |
| 200 | 35.4 | 145.4 | 4,200 |
| 250 ft. BOOM | | | |
| 38 | 82.4 | 255.2 | 85,000 * |
| 40 | 82.0 | 254.9 | 80,500 * |
| 45 | 80.8 | 254.1 | 71,200 * |
| 50 | 79.6 | 253.2 | 64,000 * |
| 55 | 78.5 | 252.2 | 58,100 * |
| 60 | 77.3 | 251.1 | 53,300 * |
| 65 | 76.1 | 249.9 | 48,800 * |
| 70 | 74.9 | 248.6 | 44,900 * |
| 75 | 73.7 | 247.1 | 41,400 |
| 80 | 72.5 | 245.6 | 37,400 |
| 85 | 71.3 | 243.9 | 33,900 |
| 90 | 70.1 | 242.1 | 30,900 |
| 95 | 68.9 | 240.2 | 28,200 |
| 100 | 67.7 | 238.2 | 25,800 |
| 105 | 66.4 | 236.1 | 23,600 |
| 110 | 65.1 | 233.8 | 21,700 |
| 115 | 63.9 | 231.3 | 19,900 |
| 120 | 62.6 | 228.8 | 18,300 |
| 125 | 61.3 | 226.1 | 16,800 |
| 130 | 60.0 | 223.2 | 15,500 |
| 135 | 58.6 | 220.2 | 14,200 |
| 140 | 57.3 | 217.0 | 13,100 |
| 145 | 55.9 | 213.7 | 12,000 |
| 150 | 54.5 | 210.2 | 11,000 |
| 155 | 53.1 | 206.5 | 10,100 |
| 160 | 51.6 | 202.5 | 9,200 |
| 165 | 50.1 | 198.4 | 8,400 |
| 170 | 48.6 | 194.1 | 7,600 |
| 175 | 47.0 | 189.5 | 6,900 |
| 180 | 45.5 | 184.6 | 6,200 |
| 185 | 43.8 | 179.5 | 5,600 |
| 190 | 42.1 | 174.1 | 5,000 |
| 195 | 40.4 | 168.3 | 4,400 |



Liftcrane Boom Capacities

777 SERIES 2

Meets
 ANSI B30.5
 Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
360 Degree Rating

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 260 ft. BOOM | | | |
| 40 | 82.3 | 265.0 | 77,200 * |
| 45 | 81.2 | 264.3 | 68,800 * |
| 50 | 80.0 | 263.4 | 61,600 * |
| 55 | 78.9 | 262.4 | 55,900 * |
| 60 | 77.8 | 261.4 | 51,100 * |
| 65 | 76.7 | 260.2 | 47,100 * |
| 70 | 75.5 | 258.9 | 43,300 * |
| 75 | 74.4 | 257.6 | 39,900 * |
| 80 | 73.2 | 256.1 | 36,900 * |
| 85 | 72.1 | 254.5 | 33,600 * |
| 90 | 70.9 | 252.8 | 30,500 * |
| 95 | 69.7 | 251.0 | 27,800 * |
| 100 | 68.6 | 249.0 | 25,400 * |
| 105 | 67.4 | 247.0 | 23,200 * |
| 110 | 66.2 | 244.8 | 21,300 * |
| 115 | 65.0 | 242.5 | 19,500 * |
| 120 | 63.7 | 240.0 | 17,900 * |
| 125 | 62.5 | 237.4 | 16,400 * |
| 130 | 61.2 | 234.7 | 15,100 * |
| 135 | 60.0 | 231.9 | 13,800 * |
| 140 | 58.7 | 228.9 | 12,700 * |
| 145 | 57.4 | 225.7 | 11,600 * |
| 150 | 56.1 | 222.4 | 10,600 * |
| 155 | 54.7 | 218.9 | 9,700 * |
| 160 | 53.3 | 215.2 | 8,800 * |
| 165 | 51.9 | 211.3 | 8,000 * |
| 170 | 50.5 | 207.3 | 7,200 * |
| 175 | 49.1 | 203.0 | 6,500 * |
| 180 | 47.6 | 198.5 | 5,800 * |
| 185 | 46.1 | 193.8 | 5,100 * |
| 190 | 44.5 | 188.7 | 4,400 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 270 ft. BOOM | | | |
| 45 | 81.5 | 274.4 | 66,700 * |
| 50 | 80.4 | 273.5 | 59,600 * |
| 55 | 79.3 | 272.6 | 54,000 * |
| 60 | 78.3 | 271.6 | 49,300 * |
| 65 | 77.2 | 270.5 | 45,300 * |
| 70 | 76.1 | 269.3 | 41,800 * |
| 75 | 75.0 | 267.9 | 38,500 * |
| 80 | 73.9 | 266.5 | 35,500 * |
| 85 | 72.8 | 265.0 | 33,000 * |
| 90 | 71.7 | 263.4 | 30,100 * |
| 95 | 70.5 | 261.6 | 27,400 * |
| 100 | 69.4 | 259.8 | 25,000 * |
| 105 | 68.3 | 257.8 | 22,800 * |
| 110 | 67.1 | 255.7 | 20,900 * |
| 115 | 65.9 | 253.5 | 19,100 * |
| 120 | 64.8 | 251.2 | 17,500 * |
| 125 | 63.6 | 248.7 | 16,000 * |
| 130 | 62.4 | 246.1 | 14,700 * |
| 135 | 61.2 | 243.4 | 13,400 * |
| 140 | 60.0 | 240.5 | 12,300 * |
| 145 | 58.7 | 237.5 | 11,200 * |
| 150 | 57.5 | 234.4 | 10,200 * |
| 155 | 56.2 | 231.1 | 9,300 * |
| 160 | 54.9 | 227.6 | 8,400 * |
| 165 | 53.6 | 224.0 | 7,600 * |
| 170 | 52.3 | 220.1 | 6,700 * |
| 175 | 50.9 | 216.1 | 5,900 * |
| 180 | 49.5 | 211.9 | 5,200 * |
| 185 | 48.1 | 207.5 | 4,400 * |



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

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 over front of machine with crawlers blocked. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 29,500 Lbs. or 59,000 Lbs. with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 20,000 Lbs. or 40,000 Lbs. 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 with front tumbler properly blocked so that centerline of idler tumbler becomes tipping fulcrum. Drive motors must be to rear of machine. Swing is limited to that sector shown on Operating Range Diagram **No. 7958-A**. 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. wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

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 24 Ft. 9 in. crawlers, 38 in. or 48 in. treads, two 12 in. boom hoist cylinders, 26 Ft. mast, four 1-1/4 in. boom pendants, 142,000 Lb. crane counterweight and two 22,000 Lb. carbody counterweights.

| Deduct From Capacities When Jib is Attached | |
|--|-------------|
| Jib length | Jib No. 134 |
| 30 Ft. | 3,900 Lbs. |
| 40 Ft. | 4,700 Lbs. |
| 50 Ft. | 5,600 Lbs. |
| 60 Ft. | 6,600 Lbs. |
| 70 Ft. | 7,600 Lbs. |
| 80 Ft. | 8,700 Lbs. |

Upper Boom Point Deduct
Deduct 1,000 Lbs. from capacities
when upper boom point is attached.

Auxiliary Drum Deduct
Deduct 1,700 Lbs. from capacities when
boom butt is equipped with auxiliary drum.

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



Liftcrane Boom Capacities

Meets
ANSI B30.5
Requirements

777 SERIES 2

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

| Maximum Boom and Jib Lengths Lifted Unassisted Over Front of Blocked Crawlers | |
|---|-------------|
| Boom Length | Jib No. 134 |
| (a) 270 Ft. | --- |
| (a) 260 Ft. | --- |
| 250 Ft. | --- |
| 240 Ft. | 30 Ft. |
| 230 Ft. | 50 Ft. |
| 220 Ft. | 80 Ft. |

Load block, hook and weight ball on ground at start.
(a) Upper boom point cannot be used on 260 Ft. and 270 Ft. booms. Auxiliary drum in boom butt and wire rope guide in 10 ft. insert cannot be used on 270 ft. boom.

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|--------------------|----------------|-----------------------|----------------------|
| 60 ft. BOOM | | | |
| 13 | 82.4 | 66.8 | 352,800 * |
| 14 | 81.4 | 66.7 | 337,800 * |
| 15 | 80.5 | 66.5 | 316,700 * |
| 16 | 79.5 | 66.3 | 298,000 * |
| 17 | 78.5 | 66.1 | 281,300 * |
| 18 | 77.5 | 65.8 | 266,300 * |
| 19 | 76.5 | 65.6 | 252,800 * |
| 20 | 75.6 | 65.3 | 240,600 * |
| 22 | 73.6 | 64.7 | 219,200 * |
| 24 | 71.5 | 64.0 | 201,200 * |
| 26 | 69.5 | 63.2 | 185,800 * |
| 28 | 67.4 | 62.4 | 172,500 * |
| 30 | 65.3 | 61.4 | 160,900 * |
| 32 | 63.2 | 60.4 | 150,600 * |
| 34 | 61.0 | 59.3 | 141,500 * |
| 36 | 58.7 | 58.0 | 133,100 * |
| 38 | 56.4 | 56.7 | 125,200 * |
| 40 | 54.1 | 55.2 | 118,200 * |
| 45 | 47.8 | 50.9 | 103,400 * |
| 50 | 40.7 | 45.5 | 91,600 * |
| 55 | 32.4 | 38.4 | 82,000 * |
| 60 | 21.2 | 27.8 | 73,400 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|--------------------|----------------|-----------------------|----------------------|
| 70 ft. BOOM | | | |
| 14 | 82.7 | 76.8 | 309,900 * |
| 15 | 81.8 | 76.6 | 303,000 * |
| 16 | 81.0 | 76.5 | 294,100 * |
| 17 | 80.2 | 76.3 | 281,300 * |
| 18 | 79.3 | 76.1 | 266,300 * |
| 19 | 78.5 | 75.9 | 252,800 * |
| 20 | 77.7 | 75.6 | 240,600 * |
| 22 | 76.0 | 75.1 | 219,200 * |
| 24 | 74.3 | 74.5 | 201,200 * |
| 26 | 72.6 | 73.9 | 185,700 * |
| 28 | 70.8 | 73.2 | 172,500 * |
| 30 | 69.1 | 72.4 | 160,900 * |
| 32 | 67.3 | 71.5 | 150,700 * |
| 34 | 65.5 | 70.6 | 141,600 * |
| 36 | 63.6 | 69.6 | 133,200 * |
| 38 | 61.8 | 68.5 | 125,400 * |
| 40 | 59.9 | 67.3 | 118,400 * |
| 45 | 54.9 | 64.0 | 103,600 * |
| 50 | 49.7 | 59.9 | 91,900 * |
| 55 | 43.9 | 55.0 | 82,300 * |
| 60 | 37.5 | 48.9 | 74,300 * |
| 65 | 29.9 | 41.0 | 67,000 * |
| 70 | 19.5 | 29.5 | 60,200 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|--------------------|----------------|-----------------------|----------------------|
| 80 ft. BOOM | | | |
| 15 | 82.9 | 86.8 | 275,500 * |
| 16 | 82.1 | 86.6 | 267,600 * |
| 17 | 81.4 | 86.4 | 259,900 * |
| 18 | 80.7 | 86.3 | 252,900 * |
| 19 | 80.0 | 86.1 | 246,200 * |
| 20 | 79.2 | 85.9 | 239,900 * |
| 22 | 77.8 | 85.4 | 219,000 * |
| 24 | 76.3 | 84.9 | 201,000 * |
| 26 | 74.8 | 84.4 | 185,600 * |
| 28 | 73.3 | 83.8 | 172,300 * |
| 30 | 71.8 | 83.1 | 160,700 * |
| 32 | 70.3 | 82.3 | 150,500 * |
| 34 | 68.7 | 81.6 | 141,400 * |
| 36 | 67.2 | 80.7 | 133,100 * |
| 38 | 65.6 | 79.8 | 125,300 * |
| 40 | 64.0 | 78.8 | 118,300 * |
| 45 | 59.9 | 76.0 | 103,600 * |
| 50 | 55.6 | 72.7 | 91,800 * |
| 55 | 51.1 | 68.8 | 82,200 * |
| 60 | 46.2 | 64.2 | 74,300 * |
| 65 | 40.9 | 58.8 | 67,300 * |
| 70 | 34.9 | 52.1 | 60,700 * |
| 75 | 27.8 | 43.5 | 55,000 * |
| 80 | 18.2 | 31.0 | 50,000 * |



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 90 ft. BOOM | | | |
| 16 | 83.0 | 96.7 | 256,700 * |
| 17 | 82.4 | 96.6 | 249,700 * |
| 18 | 81.7 | 96.4 | 243,100 * |
| 19 | 81.1 | 96.2 | 236,800 * |
| 20 | 80.4 | 96.1 | 230,700 * |
| 22 | 79.1 | 95.7 | 218,800 * |
| 24 | 77.8 | 95.2 | 200,800 * |
| 26 | 76.5 | 94.7 | 185,400 * |
| 28 | 75.2 | 94.2 | 172,100 * |
| 30 | 73.9 | 93.6 | 160,500 * |
| 32 | 72.5 | 93.0 | 150,300 * |
| 34 | 71.2 | 92.3 | 141,200 * |
| 36 | 69.8 | 91.5 | 133,000 * |
| 38 | 68.5 | 90.7 | 125,200 * |
| 40 | 67.1 | 89.9 | 118,200 * |
| 45 | 63.6 | 87.5 | 103,500 * |
| 50 | 59.9 | 84.7 | 91,800 * |
| 55 | 56.1 | 81.4 | 82,200 * |
| 60 | 52.1 | 77.7 | 74,000 * |
| 65 | 47.9 | 73.3 | 67,000 * |
| 70 | 43.4 | 68.2 | 60,800 |
| 75 | 38.4 | 62.3 | 55,200 |
| 80 | 32.8 | 55.0 | 50,400 |
| 85 | 26.1 | 45.8 | 46,100 |
| 90 | 17.1 | 32.5 | 42,400 |
| 100 ft. BOOM | | | |
| 18 | 82.6 | 106.5 | 221,400 * |
| 19 | 82.0 | 106.4 | 215,900 * |
| 20 | 81.4 | 106.2 | 210,700 * |
| 22 | 80.2 | 105.9 | 200,800 * |
| 24 | 79.1 | 105.5 | 191,700 * |
| 26 | 77.9 | 105.0 | 183,300 * |
| 28 | 76.7 | 104.5 | 171,800 * |
| 30 | 75.5 | 104.0 | 160,200 * |
| 32 | 74.4 | 103.4 | 150,000 * |
| 34 | 73.2 | 102.8 | 140,900 * |
| 36 | 71.9 | 102.2 | 132,800 * |
| 38 | 70.7 | 101.5 | 125,000 * |
| 40 | 69.5 | 100.7 | 118,000 * |
| 45 | 66.4 | 98.6 | 103,200 * |
| 50 | 63.2 | 96.1 | 90,900 * |
| 55 | 59.9 | 93.3 | 80,800 * |
| 60 | 56.5 | 90.1 | 72,600 * |
| 65 | 53.0 | 86.4 | 65,600 * |
| 70 | 49.2 | 82.3 | 59,700 * |
| 75 | 45.3 | 77.5 | 54,700 * |
| 80 | 41.0 | 72.0 | 50,300 * |
| 85 | 36.3 | 65.5 | 46,100 |
| 90 | 31.0 | 57.8 | 42,500 |
| 95 | 24.7 | 48.0 | 39,200 |
| 100 | 16.1 | 33.9 | 36,200 |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 110 ft. BOOM | | | |
| 19 | 82.7 | 116.5 | 211,100 * |
| 20 | 82.2 | 116.3 | 205,700 * |
| 22 | 81.1 | 116.0 | 195,600 * |
| 24 | 80.1 | 115.7 | 186,300 * |
| 26 | 79.0 | 115.3 | 177,600 * |
| 28 | 78.0 | 114.8 | 167,700 * |
| 30 | 76.9 | 114.4 | 156,600 * |
| 32 | 75.8 | 113.8 | 147,100 * |
| 34 | 74.7 | 113.3 | 138,700 * |
| 36 | 73.6 | 112.7 | 131,300 * |
| 38 | 72.5 | 112.0 | 124,700 * |
| 40 | 71.4 | 111.4 | 117,600 * |
| 45 | 68.7 | 109.5 | 101,800 * |
| 50 | 65.8 | 107.3 | 89,500 * |
| 55 | 62.9 | 104.8 | 79,500 * |
| 60 | 59.9 | 102.0 | 71,300 * |
| 65 | 56.8 | 98.8 | 64,500 * |
| 70 | 53.6 | 95.2 | 58,700 * |
| 75 | 50.3 | 91.2 | 53,700 * |
| 80 | 46.8 | 86.6 | 49,300 * |
| 85 | 43.0 | 81.5 | 45,500 * |
| 90 | 39.0 | 75.6 | 42,100 * |
| 95 | 34.5 | 68.7 | 39,100 * |
| 100 | 29.5 | 60.4 | 36,400 |
| 105 | 23.5 | 50.0 | 33,800 |
| 110 | 15.3 | 35.2 | 31,200 * |
| 120 ft. BOOM | | | |
| 20 | 82.9 | 126.4 | 192,200 * |
| 22 | 81.9 | 126.2 | 183,700 * |
| 24 | 80.9 | 125.8 | 175,900 * |
| 26 | 79.9 | 125.5 | 168,600 * |
| 28 | 79.0 | 125.1 | 161,800 * |
| 30 | 78.0 | 124.6 | 152,200 * |
| 32 | 77.0 | 124.2 | 142,800 * |
| 34 | 76.0 | 123.6 | 134,700 * |
| 36 | 75.0 | 123.1 | 127,400 * |
| 38 | 74.0 | 122.5 | 121,000 * |
| 40 | 73.0 | 121.9 | 115,200 * |
| 45 | 70.5 | 120.2 | 101,000 * |
| 50 | 68.0 | 118.2 | 88,600 * |
| 55 | 65.3 | 116.0 | 78,700 * |
| 60 | 62.7 | 113.5 | 70,600 * |
| 65 | 59.9 | 110.6 | 63,800 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 120 ft. BOOM | | | |
| 70 | 57.1 | 107.5 | 58,000 * |
| 75 | 54.2 | 104.0 | 53,000 * |
| 80 | 51.2 | 100.0 | 48,700 * |
| 85 | 48.0 | 95.7 | 44,900 * |
| 90 | 44.6 | 90.8 | 41,500 * |
| 95 | 41.1 | 85.2 | 38,500 * |
| 100 | 37.2 | 78.9 | 35,800 * |
| 105 | 33.0 | 71.6 | 33,400 * |
| 110 | 28.2 | 62.9 | 31,200 * |
| 115 | 22.5 | 52.0 | 29,200 * |
| 130 ft. BOOM | | | |
| 22 | 82.5 | 136.3 | 176,100 * |
| 24 | 81.6 | 136.0 | 168,300 * |
| 26 | 80.7 | 135.6 | 161,100 * |
| 28 | 79.8 | 135.3 | 154,400 * |
| 30 | 78.9 | 134.9 | 148,100 * |
| 32 | 78.0 | 134.4 | 139,100 * |
| 34 | 77.1 | 134.0 | 131,100 * |
| 36 | 76.2 | 133.5 | 124,000 * |
| 38 | 75.3 | 132.9 | 117,600 * |
| 40 | 74.4 | 132.4 | 112,000 * |
| 45 | 72.1 | 130.8 | 100,000 * |
| 50 | 69.7 | 129.0 | 87,700 * |
| 55 | 67.4 | 127.0 | 77,800 * |
| 60 | 64.9 | 124.7 | 69,700 * |
| 65 | 62.5 | 122.1 | 62,900 * |
| 70 | 59.9 | 119.3 | 57,100 * |
| 75 | 57.3 | 116.2 | 52,200 * |
| 80 | 54.7 | 112.7 | 47,900 * |
| 85 | 51.9 | 108.9 | 44,100 * |
| 90 | 49.0 | 104.6 | 40,800 * |
| 95 | 46.0 | 99.9 | 37,800 * |
| 100 | 42.8 | 94.7 | 35,100 * |
| 105 | 39.4 | 88.8 | 32,700 * |
| 110 | 35.7 | 82.1 | 30,500 * |
| 115 | 31.6 | 74.4 | 28,600 * |
| 120 | 27.0 | 65.3 | 26,700 * |
| 125 | 21.5 | 53.8 | 25,000 * |



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 140 ft. BOOM | | | |
| 24 | 82.2 | 146.1 | 157,900 * |
| 26 | 81.4 | 145.8 | 151,800 * |
| 28 | 80.6 | 145.4 | 146,000 * |
| 30 | 79.7 | 145.1 | 140,600 * |
| 32 | 78.9 | 144.7 | 135,400 * |
| 34 | 78.1 | 144.2 | 127,500 * |
| 36 | 77.2 | 143.8 | 120,500 * |
| 38 | 76.4 | 143.3 | 114,300 * |
| 40 | 75.5 | 142.7 | 108,800 * |
| 45 | 73.4 | 141.3 | 97,200 * |
| 50 | 71.3 | 139.6 | 86,700 * |
| 55 | 69.1 | 137.8 | 76,900 * |
| 60 | 66.8 | 135.7 | 68,800 * |
| 65 | 64.6 | 133.4 | 62,000 * |
| 70 | 62.3 | 130.8 | 56,300 * |
| 75 | 59.9 | 128.0 | 51,300 * |
| 80 | 57.5 | 124.8 | 47,100 * |
| 85 | 55.0 | 121.4 | 43,300 * |
| 90 | 52.5 | 117.7 | 40,000 * |
| 95 | 49.8 | 113.6 | 37,000 * |
| 100 | 47.1 | 109.0 | 34,400 * |
| 105 | 44.2 | 104.0 | 32,000 * |
| 110 | 41.1 | 98.5 | 29,800 * |
| 115 | 37.9 | 92.3 | 27,800 * |
| 120 | 34.3 | 85.2 | 26,000 * |
| 125 | 30.4 | 77.2 | 24,300 * |
| 130 | 26.0 | 67.6 | 22,800 * |
| 135 | 20.7 | 55.6 | 21,400 * |
| 150 ft. BOOM | | | |
| 24 | 82.8 | 156.2 | 152,500 * |
| 26 | 82.0 | 155.9 | 146,300 * |
| 28 | 81.2 | 155.6 | 140,500 * |
| 30 | 80.4 | 155.2 | 135,000 * |
| 32 | 79.7 | 154.9 | 129,900 * |
| 34 | 78.9 | 154.5 | 124,200 * |
| 36 | 78.1 | 154.0 | 117,300 * |
| 38 | 77.3 | 153.6 | 111,300 * |
| 40 | 76.5 | 153.1 | 105,800 * |
| 45 | 74.5 | 151.7 | 94,400 * |
| 50 | 72.5 | 150.2 | 85,300 * |
| 55 | 70.5 | 148.5 | 76,000 * |
| 60 | 68.5 | 146.5 | 68,000 * |
| 65 | 66.4 | 144.4 | 61,200 * |
| 70 | 64.3 | 142.0 | 55,500 * |
| 75 | 62.1 | 139.5 | 50,600 * |
| 80 | 59.9 | 136.6 | 46,300 * |
| 85 | 57.7 | 133.5 | 42,600 * |
| 90 | 55.4 | 130.1 | 39,300 * |
| 95 | 53.0 | 126.4 | 36,300 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 150 ft. BOOM | | | |
| 100 | 50.6 | 122.4 | 33,700 * |
| 105 | 48.0 | 118.0 | 31,300 * |
| 110 | 45.4 | 113.2 | 29,200 * |
| 115 | 42.6 | 107.9 | 27,200 * |
| 120 | 39.7 | 102.1 | 25,400 * |
| 125 | 36.5 | 95.6 | 23,700 * |
| 130 | 33.1 | 88.2 | 22,200 * |
| 135 | 29.4 | 79.8 | 20,800 * |
| 140 | 25.1 | 69.8 | 19,500 * |
| 145 | 20.0 | 57.4 | 18,200 * |
| 160 ft. BOOM | | | |
| 26 | 82.5 | 166.0 | 139,000 * |
| 28 | 81.8 | 165.7 | 133,400 * |
| 30 | 81.0 | 165.4 | 128,100 * |
| 32 | 80.3 | 165.0 | 123,100 * |
| 34 | 79.6 | 164.7 | 118,400 * |
| 36 | 78.8 | 164.3 | 114,000 * |
| 38 | 78.1 | 163.8 | 108,500 * |
| 40 | 77.4 | 163.4 | 103,200 * |
| 45 | 75.5 | 162.1 | 91,900 * |
| 50 | 73.7 | 160.7 | 83,000 * |
| 55 | 71.8 | 159.1 | 75,600 * |
| 60 | 69.9 | 157.3 | 67,600 * |
| 65 | 68.0 | 155.3 | 60,800 * |
| 70 | 66.0 | 153.1 | 55,100 * |
| 75 | 64.0 | 150.7 | 50,200 * |
| 80 | 62.0 | 148.1 | 45,900 * |
| 85 | 59.9 | 145.3 | 42,200 * |
| 90 | 57.8 | 142.2 | 38,900 * |
| 95 | 55.7 | 138.8 | 35,900 * |
| 100 | 53.5 | 135.2 | 33,300 * |
| 105 | 51.2 | 131.3 | 30,900 * |
| 110 | 48.8 | 127.0 | 28,700 * |
| 115 | 46.4 | 122.3 | 26,800 * |
| 120 | 43.8 | 117.3 | 25,000 * |
| 125 | 41.2 | 111.7 | 23,300 * |
| 130 | 38.3 | 105.6 | 21,800 * |
| 135 | 35.3 | 98.7 | 20,400 * |
| 140 | 32.0 | 91.1 | 19,100 * |
| 145 | 28.4 | 82.3 | 17,900 * |
| 150 | 24.3 | 71.9 | 16,700 * |
| 155 | 19.3 | 59.1 | 15,600 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 170 ft. BOOM | | | |
| 26 | 82.9 | 176.1 | 133,600 * |
| 28 | 82.2 | 175.8 | 128,200 * |
| 30 | 81.6 | 175.5 | 123,000 * |
| 32 | 80.9 | 175.2 | 118,100 * |
| 34 | 80.2 | 174.8 | 113,400 * |
| 36 | 79.5 | 174.5 | 109,100 * |
| 38 | 78.8 | 174.0 | 105,000 * |
| 40 | 78.1 | 173.6 | 100,500 * |
| 45 | 76.4 | 172.4 | 89,400 * |
| 50 | 74.7 | 171.1 | 80,600 * |
| 55 | 72.9 | 169.6 | 73,400 * |
| 60 | 71.1 | 167.9 | 66,800 * |
| 65 | 69.3 | 166.1 | 60,100 * |
| 70 | 67.5 | 164.0 | 54,400 * |
| 75 | 65.7 | 161.8 | 49,500 * |
| 80 | 63.8 | 159.4 | 45,200 * |
| 85 | 61.9 | 156.8 | 41,500 * |
| 90 | 59.9 | 153.9 | 38,200 * |
| 95 | 58.0 | 150.9 | 35,300 * |
| 100 | 55.9 | 147.5 | 32,700 * |
| 105 | 53.9 | 144.0 | 30,300 * |
| 110 | 51.7 | 140.1 | 28,100 * |
| 115 | 49.5 | 135.9 | 26,200 * |
| 120 | 47.3 | 131.4 | 24,400 * |
| 125 | 44.9 | 126.5 | 22,700 * |
| 130 | 42.5 | 121.2 | 21,200 * |
| 135 | 39.9 | 115.3 | 19,800 * |
| 140 | 37.1 | 108.9 | 18,500 * |
| 145 | 34.2 | 101.8 | 17,300 * |
| 150 | 31.0 | 93.8 | 16,200 * |
| 155 | 27.5 | 84.7 | 15,100 * |
| 160 | 23.5 | 74.0 | 14,100 * |
| 165 | 18.7 | 60.7 | 13,200 * |



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 180 ft. BOOM | | | |
| 28 | 82.7 | 185.9 | 122,000 * |
| 30 | 82.0 | 185.6 | 117,400 * |
| 32 | 81.4 | 185.3 | 113,000 * |
| 34 | 80.7 | 185.0 | 108,800 * |
| 36 | 80.1 | 184.6 | 104,700 * |
| 38 | 79.5 | 184.2 | 100,600 * |
| 40 | 78.8 | 183.8 | 96,800 * |
| 45 | 77.2 | 182.7 | 87,100 * |
| 50 | 75.5 | 181.5 | 78,500 * |
| 55 | 73.9 | 180.1 | 71,400 * |
| 60 | 72.2 | 178.5 | 65,400 * |
| 65 | 70.5 | 176.8 | 59,400 * |
| 70 | 68.8 | 174.9 | 53,700 * |
| 75 | 67.1 | 172.8 | 48,800 * |
| 80 | 65.4 | 170.5 | 44,600 * |
| 85 | 63.6 | 168.1 | 40,800 * |
| 90 | 61.8 | 165.4 | 37,600 * |
| 95 | 60.0 | 162.6 | 34,600 * |
| 100 | 58.1 | 159.5 | 32,000 * |
| 105 | 56.2 | 156.2 | 29,600 * |
| 110 | 54.2 | 152.7 | 27,500 * |
| 115 | 52.2 | 148.9 | 25,500 * |
| 120 | 50.2 | 144.8 | 23,700 * |
| 125 | 48.1 | 140.4 | 22,100 * |
| 130 | 45.9 | 135.6 | 20,600 * |
| 135 | 43.6 | 130.5 | 19,200 * |
| 140 | 41.2 | 124.9 | 17,900 * |
| 145 | 38.7 | 118.8 | 16,700 * |
| 150 | 36.0 | 112.2 | 15,500 * |
| 155 | 33.2 | 104.8 | 14,500 * |
| 160 | 30.1 | 96.5 | 13,500 * |
| 165 | 26.7 | 87.1 | 12,600 * |
| 170 | 22.8 | 76.0 | 11,700 * |
| 175 | 18.2 | 62.3 | 10,800 * |
| 190 ft. BOOM | | | |
| 30 | 82.5 | 195.7 | 116,600 * |
| 32 | 81.9 | 195.4 | 113,200 * |
| 34 | 81.2 | 195.1 | 109,900 * |
| 36 | 80.6 | 194.8 | 106,500 * |
| 38 | 80.0 | 194.4 | 101,200 * |
| 40 | 79.4 | 194.0 | 96,000 * |
| 45 | 77.9 | 193.0 | 85,200 * |
| 50 | 76.3 | 191.8 | 76,500 * |
| 55 | 74.8 | 190.5 | 69,400 * |
| 60 | 73.2 | 189.0 | 63,500 * |
| 65 | 71.6 | 187.4 | 58,400 * |
| 70 | 70.0 | 185.6 | 53,100 * |
| 75 | 68.4 | 183.6 | 48,100 * |
| 80 | 66.7 | 181.5 | 43,900 * |
| 85 | 65.1 | 179.2 | 40,100 * |
| 90 | 63.4 | 176.8 | 36,800 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 190 ft. BOOM | | | |
| 95 | 61.7 | 174.1 | 33,900 * |
| 100 | 60.0 | 171.3 | 31,200 * |
| 105 | 58.2 | 168.2 | 28,800 * |
| 110 | 56.4 | 164.9 | 26,700 * |
| 115 | 54.5 | 161.4 | 24,700 * |
| 120 | 52.7 | 157.7 | 22,900 * |
| 125 | 50.7 | 153.7 | 21,300 * |
| 130 | 48.7 | 149.4 | 19,800 * |
| 135 | 46.7 | 144.7 | 18,400 * |
| 140 | 44.6 | 139.8 | 17,100 * |
| 145 | 42.3 | 134.4 | 15,900 * |
| 150 | 40.0 | 128.6 | 14,700 * |
| 155 | 37.6 | 122.3 | 13,700 * |
| 160 | 35.0 | 115.3 | 12,800 * |
| 165 | 32.3 | 107.7 | 11,800 * |
| 170 | 29.3 | 99.1 | 10,900 * |
| 175 | 26.0 | 89.4 | 10,100 * |
| 180 | 22.2 | 77.9 | 9,300 * |
| 185 | 17.7 | 63.8 | 8,500 * |
| 200 ft. BOOM | | | |
| 30 | 82.8 | 205.8 | 109,700 * |
| 32 | 82.3 | 205.5 | 106,300 * |
| 34 | 81.7 | 205.2 | 103,000 * |
| 36 | 81.1 | 204.9 | 99,900 * |
| 38 | 80.5 | 204.6 | 96,900 * |
| 40 | 79.9 | 204.2 | 93,400 * |
| 45 | 78.5 | 203.2 | 82,700 * |
| 50 | 77.0 | 202.1 | 74,300 * |
| 55 | 75.5 | 200.8 | 67,400 * |
| 60 | 74.0 | 199.4 | 61,600 * |
| 65 | 72.5 | 197.9 | 56,700 * |
| 70 | 71.0 | 196.2 | 52,200 * |
| 75 | 69.5 | 194.4 | 47,300 * |
| 80 | 68.0 | 192.4 | 43,100 * |
| 85 | 66.4 | 190.2 | 39,400 * |
| 90 | 64.8 | 187.9 | 36,100 * |
| 95 | 63.2 | 185.4 | 33,100 * |
| 100 | 61.6 | 182.8 | 30,500 * |
| 105 | 60.0 | 179.9 | 28,200 * |
| 110 | 58.3 | 176.9 | 26,000 * |
| 115 | 56.6 | 173.6 | 24,100 * |
| 120 | 54.8 | 170.2 | 22,300 * |
| 125 | 53.0 | 166.5 | 20,600 * |
| 130 | 51.2 | 162.5 | 19,100 * |
| 135 | 49.3 | 158.3 | 17,700 * |
| 140 | 47.4 | 153.8 | 16,500 * |
| 145 | 45.4 | 148.9 | 15,300 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 200 ft. BOOM | | | |
| 150 | 43.4 | 143.7 | 14,100 * |
| 155 | 41.2 | 138.2 | 13,100 * |
| 160 | 39.0 | 132.1 | 12,100 * |
| 165 | 36.6 | 125.6 | 11,200 * |
| 170 | 34.1 | 118.4 | 10,300 * |
| 175 | 31.4 | 110.5 | 9,500 * |
| 180 | 28.5 | 101.7 | 8,700 * |
| 185 | 25.3 | 91.6 | 8,000 * |
| 190 | 21.6 | 79.8 | 7,300 * |
| 195 | 17.2 | 65.3 | 6,600 * |
| 210 ft. BOOM | | | |
| 32 | 82.6 | 215.6 | 105,700 * |
| 34 | 82.1 | 215.4 | 102,700 * |
| 36 | 81.5 | 215.1 | 98,200 * |
| 38 | 81.0 | 214.7 | 94,300 * |
| 40 | 80.4 | 214.4 | 89,700 * |
| 45 | 79.0 | 213.4 | 80,100 * |
| 50 | 77.6 | 212.4 | 72,500 * |
| 55 | 76.2 | 211.2 | 65,800 * |
| 60 | 74.8 | 209.8 | 60,100 * |
| 65 | 73.4 | 208.4 | 55,200 * |
| 70 | 72.0 | 206.8 | 51,000 * |
| 75 | 70.5 | 205.0 | 47,400 * |
| 80 | 69.1 | 203.2 | 44,100 * |
| 85 | 67.6 | 201.1 | 40,600 * |
| 90 | 66.1 | 198.9 | 37,300 * |
| 95 | 64.6 | 196.6 | 34,200 * |
| 100 | 63.1 | 194.1 | 31,500 * |
| 105 | 61.5 | 191.4 | 29,100 * |
| 110 | 60.0 | 188.6 | 26,900 * |
| 115 | 58.4 | 185.5 | 24,900 * |
| 120 | 56.7 | 182.3 | 23,000 * |
| 125 | 55.1 | 178.9 | 21,300 * |
| 130 | 53.4 | 175.2 | 19,800 * |
| 135 | 51.7 | 171.3 | 18,300 * |
| 140 | 49.9 | 167.2 | 17,000 * |
| 145 | 48.1 | 162.8 | 15,800 * |
| 150 | 46.2 | 158.0 | 14,600 * |
| 155 | 44.3 | 153.0 | 13,500 * |
| 160 | 42.3 | 147.6 | 12,500 * |
| 165 | 40.2 | 141.8 | 11,600 * |
| 170 | 38.0 | 135.6 | 10,700 * |
| 175 | 35.7 | 128.8 | 9,800 * |
| 180 | 33.2 | 121.4 | 9,000 * |
| 185 | 30.6 | 113.2 | 8,300 * |
| 190 | 27.8 | 104.1 | 7,500 * |
| 195 | 24.7 | 93.8 | 6,900 * |
| 200 | 21.1 | 81.7 | 6,200 * |
| 205 | 16.8 | 66.7 | 5,600 * |



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 220 ft. BOOM | | | |
| 32 | 83.0 | 225.7 | 105,100 * |
| 34 | 82.4 | 225.5 | 102,400 * |
| 36 | 81.9 | 225.2 | 96,600 * |
| 38 | 81.4 | 224.9 | 91,500 * |
| 40 | 80.9 | 224.5 | 86,900 * |
| 45 | 79.5 | 223.6 | 77,500 * |
| 50 | 78.2 | 222.6 | 70,000 * |
| 55 | 76.9 | 221.5 | 63,700 * |
| 60 | 75.5 | 220.2 | 58,100 * |
| 65 | 74.2 | 218.8 | 53,300 * |
| 70 | 72.8 | 217.3 | 49,200 * |
| 75 | 71.4 | 215.6 | 45,600 * |
| 80 | 70.1 | 213.9 | 42,500 * |
| 85 | 68.7 | 211.9 | 39,500 * |
| 90 | 67.3 | 209.9 | 36,100 * |
| 95 | 65.8 | 207.7 | 33,100 * |
| 100 | 64.4 | 205.3 | 30,400 * |
| 105 | 62.9 | 202.8 | 28,000 * |
| 110 | 61.5 | 200.1 | 25,800 * |
| 115 | 60.0 | 197.2 | 23,800 * |
| 120 | 58.4 | 194.2 | 22,000 * |
| 125 | 56.9 | 191.0 | 20,400 * |
| 130 | 55.3 | 187.6 | 18,800 * |
| 135 | 53.7 | 184.0 | 17,400 * |
| 140 | 52.1 | 180.1 | 16,100 * |
| 145 | 50.4 | 176.0 | 14,900 * |
| 150 | 48.7 | 171.7 | 13,700 * |
| 155 | 46.9 | 167.1 | 12,600 * |
| 160 | 45.1 | 162.2 | 11,600 * |
| 165 | 43.2 | 157.0 | 10,700 * |
| 170 | 41.2 | 151.4 | 9,800 * |
| 175 | 39.2 | 145.4 | 9,000 * |
| 180 | 37.1 | 138.9 | 8,200 * |
| 185 | 34.8 | 131.9 | 7,500 * |
| 190 | 32.4 | 124.3 | 6,800 * |
| 195 | 29.9 | 115.9 | 6,100 * |
| 200 | 27.1 | 106.5 | 5,400 * |
| 205 | 24.1 | 95.9 | 4,800 * |
| 210 | 20.6 | 83.5 | 4,200 * |
| 230 ft. BOOM | | | |
| 34 | 82.8 | 235.6 | 97,100 * |
| 36 | 82.3 | 235.3 | 94,300 * |
| 38 | 81.8 | 235.0 | 89,300 * |
| 40 | 81.3 | 234.7 | 84,700 * |
| 45 | 80.0 | 233.8 | 75,400 * |
| 50 | 78.7 | 232.8 | 68,000 * |
| 55 | 77.5 | 231.7 | 61,900 * |
| 60 | 76.2 | 230.5 | 56,400 * |
| 65 | 74.9 | 229.2 | 51,700 * |
| 70 | 73.6 | 227.8 | 47,700 * |
| 75 | 72.3 | 226.2 | 44,200 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 230 ft. BOOM | | | |
| 80 | 71.0 | 224.5 | 41,100 * |
| 85 | 69.6 | 222.7 | 38,300 * |
| 90 | 68.3 | 220.7 | 35,100 * |
| 95 | 67.0 | 218.6 | 32,100 * |
| 100 | 65.6 | 216.4 | 29,500 * |
| 105 | 64.2 | 214.0 | 27,100 * |
| 110 | 62.8 | 211.4 | 24,900 * |
| 115 | 61.4 | 208.8 | 22,900 * |
| 120 | 60.0 | 205.9 | 21,100 * |
| 125 | 58.5 | 202.9 | 19,500 * |
| 130 | 57.0 | 199.7 | 18,000 * |
| 135 | 55.5 | 196.3 | 16,600 * |
| 140 | 54.0 | 192.7 | 15,200 * |
| 145 | 52.4 | 188.9 | 14,000 * |
| 150 | 50.8 | 184.9 | 12,900 * |
| 155 | 49.2 | 180.6 | 11,800 * |
| 160 | 47.5 | 176.1 | 10,900 * |
| 165 | 45.8 | 171.3 | 9,900 * |
| 170 | 44.0 | 166.3 | 9,100 * |
| 175 | 42.2 | 160.8 | 8,200 * |
| 180 | 40.3 | 155.1 | 7,500 * |
| 185 | 38.3 | 148.9 | 6,700 * |
| 190 | 36.2 | 142.2 | 6,000 * |
| 195 | 34.0 | 135.0 | 5,400 * |
| 200 | 31.7 | 127.1 | 4,700 * |
| 205 | 29.2 | 118.5 | 4,100 * |
| 240 ft. BOOM | | | |
| 36 | 82.6 | 245.4 | 88,500 * |
| 38 | 82.1 | 245.1 | 87,100 * |
| 40 | 81.6 | 244.8 | 82,600 * |
| 45 | 80.4 | 244.0 | 73,200 * |
| 50 | 79.2 | 243.0 | 65,900 * |
| 55 | 78.0 | 242.0 | 60,000 * |
| 60 | 76.8 | 240.8 | 55,000 * |
| 65 | 75.5 | 239.6 | 50,400 * |
| 70 | 74.3 | 238.2 | 46,400 * |
| 75 | 73.0 | 236.7 | 42,900 * |
| 80 | 71.8 | 235.1 | 39,800 * |
| 85 | 70.5 | 233.3 | 37,100 * |
| 90 | 69.3 | 231.5 | 34,700 * |
| 95 | 68.0 | 229.5 | 32,200 * |
| 100 | 66.7 | 227.3 | 29,500 * |
| 105 | 65.4 | 225.1 | 27,100 * |
| 110 | 64.0 | 222.7 | 24,900 * |
| 115 | 62.7 | 220.1 | 22,900 * |
| 120 | 61.3 | 217.4 | 21,100 * |
| 125 | 60.0 | 214.6 | 19,400 * |
| 130 | 58.6 | 211.5 | 17,900 * |
| 135 | 57.2 | 208.4 | 16,400 * |
| 140 | 55.7 | 205.0 | 15,100 * |
| 145 | 54.3 | 201.4 | 13,900 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 240 ft. BOOM | | | |
| 150 | 52.8 | 197.7 | 12,700 * |
| 155 | 51.2 | 193.7 | 11,700 * |
| 160 | 49.7 | 189.5 | 10,700 * |
| 165 | 48.1 | 185.1 | 9,700 * |
| 170 | 46.5 | 180.4 | 8,900 * |
| 175 | 44.8 | 175.5 | 8,000 * |
| 180 | 43.0 | 170.2 | 7,200 * |
| 185 | 41.2 | 164.6 | 6,500 * |
| 190 | 39.4 | 158.6 | 5,800 * |
| 195 | 37.4 | 152.3 | 5,100 * |
| 200 | 35.4 | 145.4 | 4,500 * |
| 250 ft. BOOM | | | |
| 38 | 82.4 | 255.2 | 85,000 * |
| 40 | 82.0 | 254.9 | 80,500 * |
| 45 | 80.8 | 254.1 | 71,200 * |
| 50 | 79.6 | 253.2 | 64,000 * |
| 55 | 78.5 | 252.2 | 58,100 * |
| 60 | 77.3 | 251.1 | 53,300 * |
| 65 | 76.1 | 249.9 | 48,800 * |
| 70 | 74.9 | 248.6 | 44,900 * |
| 75 | 73.7 | 247.1 | 41,500 * |
| 80 | 72.5 | 245.6 | 38,500 * |
| 85 | 71.3 | 243.9 | 35,800 * |
| 90 | 70.1 | 242.1 | 33,400 * |
| 95 | 68.9 | 240.2 | 31,200 * |
| 100 | 67.7 | 238.2 | 28,700 * |
| 105 | 66.4 | 236.1 | 26,200 * |
| 110 | 65.1 | 233.8 | 24,100 * |
| 115 | 63.9 | 231.3 | 22,100 * |
| 120 | 62.6 | 228.8 | 20,300 * |
| 125 | 61.3 | 226.1 | 18,600 * |
| 130 | 60.0 | 223.2 | 17,100 * |
| 135 | 58.6 | 220.2 | 15,700 * |
| 140 | 57.3 | 217.0 | 14,400 * |
| 145 | 55.9 | 213.7 | 13,100 * |
| 150 | 54.5 | 210.2 | 12,000 * |
| 155 | 53.1 | 206.5 | 10,900 * |
| 160 | 51.6 | 202.5 | 9,900 * |
| 165 | 50.1 | 198.4 | 9,000 * |
| 170 | 48.6 | 194.1 | 8,100 * |
| 175 | 47.0 | 189.5 | 7,300 * |
| 180 | 45.5 | 184.6 | 6,500 * |
| 185 | 43.8 | 179.5 | 5,800 * |
| 190 | 42.1 | 174.1 | 5,100 * |
| 195 | 40.4 | 168.3 | 4,400 * |



Liftcrane Boom Capacities

777 SERIES 2

Meets
ANSI B30.5
 Requirements

Boom No. 78
142,000 Lb. Crane Counterweight
44,000 Lb. Carbody Counterweight
Rating Over Front of Blocked Crawlers
No Travel - Limited Swing

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 260 ft. BOOM | | | |
| 40 | 82.3 | 265.0 | 77,200 * |
| 45 | 81.2 | 264.3 | 68,800 * |
| 50 | 80.0 | 263.4 | 61,600 * |
| 55 | 78.9 | 262.4 | 55,900 * |
| 60 | 77.8 | 261.4 | 51,100 * |
| 65 | 76.7 | 260.2 | 47,100 * |
| 70 | 75.5 | 258.9 | 43,300 * |
| 75 | 74.4 | 257.6 | 39,900 * |
| 80 | 73.2 | 256.1 | 36,900 * |
| 85 | 72.1 | 254.5 | 34,300 * |
| 90 | 70.9 | 252.8 | 32,000 * |
| 95 | 69.7 | 251.0 | 29,800 * |
| 100 | 68.6 | 249.0 | 27,800 * |
| 105 | 67.4 | 247.0 | 25,400 * |
| 110 | 66.2 | 244.8 | 23,300 * |
| 115 | 65.0 | 242.5 | 21,300 * |
| 120 | 63.7 | 240.0 | 19,500 * |
| 125 | 62.5 | 237.4 | 17,800 * |
| 130 | 61.2 | 234.7 | 16,300 * |
| 135 | 60.0 | 231.9 | 14,900 * |
| 140 | 58.7 | 228.9 | 13,600 * |
| 145 | 57.4 | 225.7 | 12,400 * |
| 150 | 56.1 | 222.4 | 11,200 * |
| 155 | 54.7 | 218.9 | 10,200 * |
| 160 | 53.3 | 215.2 | 9,200 * |
| 165 | 51.9 | 211.3 | 8,300 * |
| 170 | 50.5 | 207.3 | 7,400 * |
| 175 | 49.1 | 203.0 | 6,600 * |
| 180 | 47.6 | 198.5 | 5,800 * |
| 185 | 46.1 | 193.8 | 5,100 * |
| 190 | 44.5 | 188.7 | 4,400 * |

| Oper. Rad. Feet | Boom Ang. Deg. | Boom Point Elev. Feet | Boom Capacity Pounds |
|---------------------|----------------|-----------------------|----------------------|
| 270 ft. BOOM | | | |
| 45 | 81.5 | 274.4 | 66,700 * |
| 50 | 80.4 | 273.5 | 59,600 * |
| 55 | 79.3 | 272.6 | 54,000 * |
| 60 | 78.3 | 271.6 | 49,300 * |
| 65 | 77.2 | 270.5 | 45,300 * |
| 70 | 76.1 | 269.3 | 41,800 * |
| 75 | 75.0 | 267.9 | 38,500 * |
| 80 | 73.9 | 266.5 | 35,500 * |
| 85 | 72.8 | 265.0 | 33,000 * |
| 90 | 71.7 | 263.4 | 30,600 * |
| 95 | 70.5 | 261.6 | 28,600 * |
| 100 | 69.4 | 259.8 | 26,700 * |
| 105 | 68.3 | 257.8 | 24,700 * |
| 110 | 67.1 | 255.7 | 22,600 * |
| 115 | 65.9 | 253.5 | 20,600 * |
| 120 | 64.8 | 251.2 | 18,800 * |
| 125 | 63.6 | 248.7 | 17,200 * |
| 130 | 62.4 | 246.1 | 15,600 * |
| 135 | 61.2 | 243.4 | 14,200 * |
| 140 | 60.0 | 240.5 | 12,900 * |
| 145 | 58.7 | 237.5 | 11,700 * |
| 150 | 57.5 | 234.4 | 10,600 * |
| 155 | 56.2 | 231.1 | 9,500 * |
| 160 | 54.9 | 227.6 | 8,500 * |
| 165 | 53.6 | 224.0 | 7,600 * |
| 170 | 52.3 | 220.1 | 6,700 * |
| 175 | 50.9 | 216.1 | 5,900 * |
| 180 | 49.5 | 211.9 | 5,200 * |
| 185 | 48.1 | 207.5 | 4,400 * |